



PRELIMINARY SITE INVESTIGATION WORK PLAN – OLYMPIC PIPELINE GASOLINE SPILL CONWAY, WASHINGTON

Submitted to:

Remediation Management Services Company

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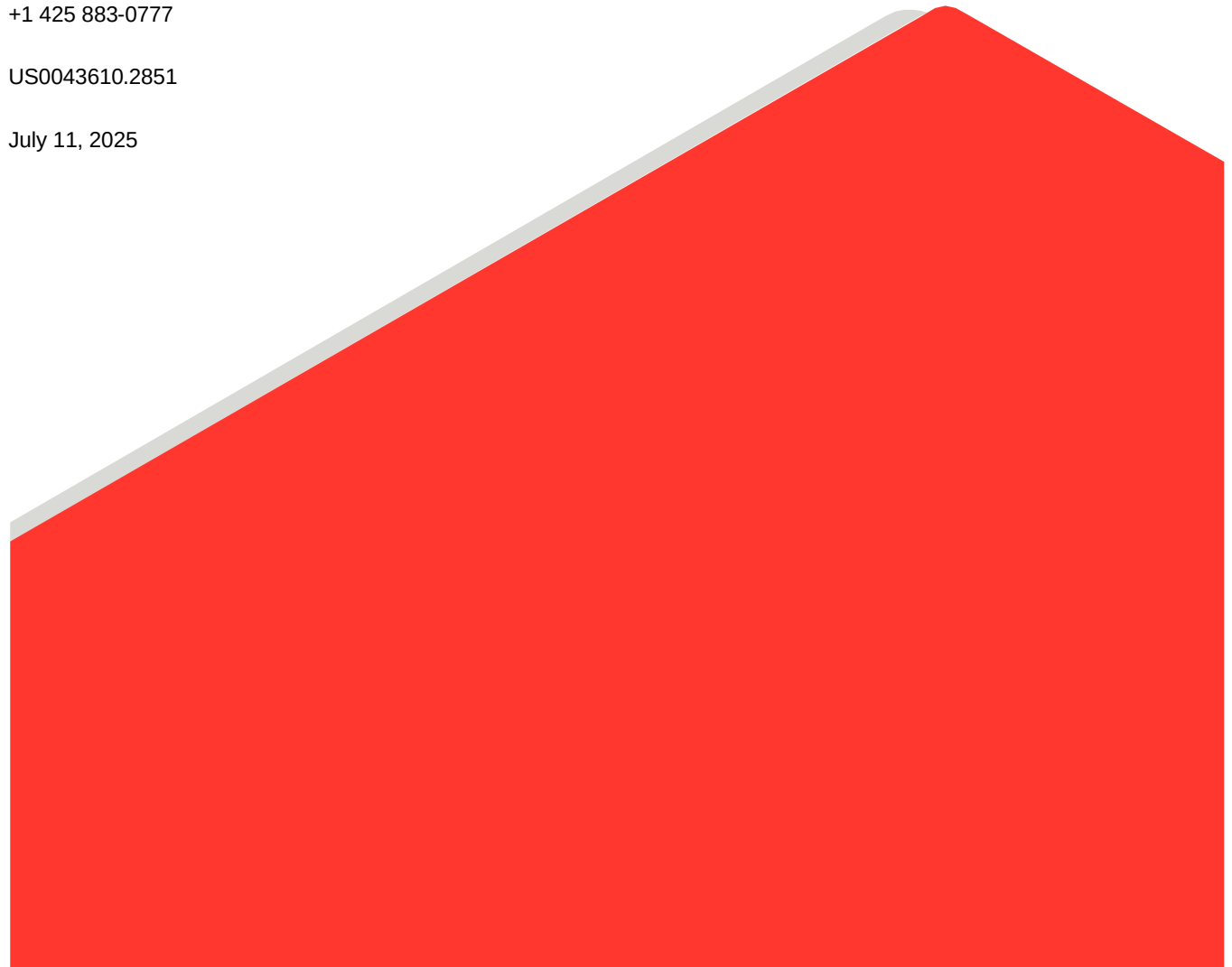
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Signature Page

WSP USA Inc.



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A handwritten signature in black ink, appearing to read "D. Tully".

David Tully
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Soil Excavation and Soil Sampling Summary OPLC MP 46 Memorandum – Antea Group

APPENDIX B

CTEH March 2024 Relevant Hand Auger Soil Data From the Block Valve Area

ACRONYMS AND ABBREVIATIONS

bgs	below ground surface
BTEX	Benzene, toluene, ethylbenzene and xylene
COC	constituent of concern
CUL	Cleanup Level
DRO	Diesel range organics
GRO	gasoline range organics
IDW	investigation-derived waste
mg/kg	milligram per kilogram
MTCA	Model Toxics Control Act
OPLC	Olympic Pipe Line Company
PID	photoionization detector
PPE	personal protective equipment
RRO	residual range organics
Site	Olympic Pipeline Gasoline Spill, Conway, Washington
SR	State Route
TPH	total petroleum hydrocarbons
WSP	WSP USA Inc.

1.0 INTRODUCTION

WSP USA Inc. (WSP) prepared this preliminary site investigation work plan on behalf of the Remediation Management Services Company. This report summarizes previous work by CTEH, Antea Group, and WSP at the Olympic Pipeline Gasoline Spill, Conway, Washington (Site) on the north side of State Route (SR)-534 (near Mt. Vernon), east of I-5 (Figure 1) and proposes additional soil investigation.

The Site consists of one Skagit County parcel totaling 9.9880 acres. The Skagit County tax assessor lists Parcel ID numbers as P16711. The Site address is 19651 SR-534. Figure 1 shows the Site location.

1.1 Incident Summary and Previous Investigations

On December 10, 2023, a release of gasoline occurred from Olympic Pipe Line Company's (OPLC) MP 46 petroleum valve site at 19651 SR-534 in Conway, Washington. Petroleum mixed with water in the vault beneath the valve and migrated by overland flow and through shallow soil overlying a clay layer across a fallow farm field, through a forested riparian area, and to Hill Ditch (Figure 1), which is a free-flowing channelized stream. Emergency spill response work was conducted to remove free product that collected in the subsurface and gasoline-impacted soil that continued to discharge petroleum product to Hill Ditch and remediate any impacted soil/sediment in the banks. Several phases of response excavations were performed as part of the initial spill response activities.

As a part of the initial site emergency spill response, the area with potential impact was divided into divisions A-0 through A-4 containing grids A1 through E10 (CTEH 2024). CTEH, the consultant involved in the emergency response phase of this project, collected soil samples from excavations within the grids. After sampling, the excavations were backfilled. The effort and findings of each area are described in further detail below.

The final spill response activities and sample results were summarized and submitted in a report by CTEH under a separate cover (CTEH, 2025).

1.1.1 A-1 Area

From December 14 to 18, 2023, before over-excavation activities, Antea Group delineated gasoline impacts in A-1 by installing shallow soil borings and test pits using hand tools and screening soil samples from these locations using a photoionization detector (PID). The delineation process included 67 staked locations varying from 0 to 18 inches below ground surface (bgs). The field delineation assessment data and exposed soils in the sidewalls of the shallow trenches used for water and product removal indicated that the spill pathway is underlain by clay. These soils appeared to have limited the extent of vertical migration of gasoline.

From December 19 to 27, 2023, gasoline-impacted soils in the A-1 Area were excavated to limits defined by field PID screening and confirmed by soil sample analytical data. One soil sample was collected from each sidewall, and two representative soil samples were collected from the bottom of the excavation for each 25 linear foot section of excavation to confirm concentrations of petroleum hydrocarbon compounds. The initial excavated area from the OPLC pipeline valve containment vault to the tree windbreak line, the A-1 Area, contained 25 bottom and 31 sidewall soil sample locations.

The following six confirmatory endpoints in the A-1 Area soil sample locations contained one or more analytical parameters above Model Toxic Control Act (MTCA) Method A Cleanup Levels (CULs) following excavation activities:

- B-21 90 inches bgs

- SW-N-1B 12 inches bgs
- SW-S-1 12 inches bgs
- SW-N-2 24 inches bgs
- SW-E-3 12 inches and 24 inches bgs
- SW-E-4C 12 inches and 36 inches bgs

The B-21 and SW-N-2 sample locations both contained slight exceedances for benzene above MTCA Method A CUL (0.03 mg/kg), 0.047 milligrams per kilogram (mg/kg) and 0.21 mg/kg, respectively and were subsequently not over-excavated. The SWE-4C and SW-S-1 sample locations could not be over-excavated because of their proximity to the cathodic protection of the pipeline block valve. The SW-N-1B sample location could not be over-excavated because of the proximity of the underground gas lines. The SW-E-3 sample location was a sidewall sample and was over-excavated. Nearby sample locations of B-4, B-17, SW-S-2, and SW-S-9 represent clean bottom and sidewall sample locations in the area of SW-E-3.

Table 1 summarizes the Antea Group analytical data collected in the A-1 Area. Figures 2 and 3 show the sample locations with detects following excavation activities. The remaining confirmation endpoint samples were all below MTCA Method A CULs, and no further over-excavation was pursued. These localized exceedances in the A-1 Area will be the focus of the 2025 soil delineation activities. The report from Antea Group is included as Appendix A.

In March of 2024, CTEH performed additional hand auger delineation activities in the A-1 Area to further delineate the block valve area. Borings S037 through S040 were advanced to a depth of 2 to 5 feet and the soil analytical results are provided in Table 2. These samples were all below MTCA Method A CULs and provided additional horizontal and vertical delineation. Figure 2 and Figure 3 also show these boring locations, and the relevant CTEH tables and figures are provided in Appendix B.

1.1.2 A-2 and A-3 Areas

As a part of the emergency response and spill cleanup, the initial site excavation focused on the A-2 and A-3 Areas. Each area was subdivided into a 20-foot by 20-foot grid, which was used for compliance sampling by CTEH. CTEH collected soil samples from excavation in each grid, as described in the A-2/A-3 Excavation Addendum (CTEH 2024). However, because of perched water and site conditions, not all impacted media could be removed. Following these initial activities, WSP identified additional soil sample locations to examine the nature and vertical extent of residual constituents of concern (COCs). Figure 4 shows the preliminary results from the initial excavation, which was used to select the direct push soil boring locations.

WSP conducted direct push soil sampling from April 11 through 12, 2024, during which 12 locations (WSP-B-1 through WSP-B-12) were sampled. Figure 4 shows the soil boring locations. Direct push soil samples were collected from 12 soil sampling locations from the depths with the highest PID reading (below the excavation bottom), the first lowest PID reading (from approximately 6 to 12 feet), and the bottom of the boring (15 feet) in the clay unit where the lowest PID readings were detected, except for WSP-B-1 where the deepest sample was collected at 8 feet (based on consecutive low PID readings).

Benzene was reported above the MTCA Method A CUL (0.03 mg/kg) for the deepest sample collected from soil boring WSP-B-1 (Figures 5 through 7). A deeper sample was not collected at this boring based on the initial low PID readings. Deeper soil samples collected at nearby locations WSP-B-3, WSP-B-4, WSP-B-5, WSP-B-8,

WSP-B-9, and WSP-B-11 (discussed below) indicated that the clay layer effectively limited vertical migration and suggested general vertical delineation of the area.

Benzene was reported below the MTCA Method A CUL in the samples collected from the deepest sample interval from WSP-B-3, WSP-B-4, WSP-B-5, WSP-B-8, WSP-B-9, and WSP-B-11, indicating that benzene exceedances were vertically delineated to a final depth ranging from 10.0 to 15.0 feet bgs (Figures 6 and 7).

Toluene, ethylbenzene, and xylene were detected in at least one sample interval from soil boring locations WSP-B-1 through WSP-B-9 and WSP-B-11. None of the results for these chemicals were reported above the MTCA Method A CUL.

Diesel range organics (DRO), residual range organics (RRO), and gasoline range organics (GRO) were also detected in multiple soil samples during direct push soil sampling. However, GRO was the only COC detected above the MTCA Method A CUL in one sample collected from WSP-B-1 at 4.0 feet bgs but was below MTCA Method A CUL at depth (8.0 ft).

The direct push analytical results are summarized in Table 3. This information was previously submitted in the Initial Site Investigation Report (July 2, 2024) prepared by WSP.

1.1.3 A-4 Activities

The preliminary spill response findings were used to guide the WSP 2024 investigation and remediation activities in the A-4 Area described in the Initial Site Investigation Report (July 2, 2024) prepared by WSP.

During this initial soil sampling, grid B-10 was observed to contain COCs above the MTCA Method A CULs and was outside of the primary excavation area. WSP mobilized on April 2, 2024 to oversee the excavation of this specific location and collected additional confirmation samples from grid B-10.

This component of WSP's site investigation and excavation showed all COCs were below MTCA Method A CULs in all samples collected from the excavation at grid B-10. Therefore, no further activities are proposed for the A-4 Area (Figure 8).

1.2 Local Geology

Shallow site geology consists of fill material to a depth of 2.0 to 5.0 feet bgs underlain by the thin, well-graded sandy gravel unit to a depth of 3.0 to 8.0 feet bgs. The sandy gravel unit was observed to be dry to moist at the time. Underneath the sandy gravel unit, clay was observed to a depth of 25.0 to 30.0 feet bgs. The clay was observed to be moist and had variable coloring, from gray to blue to brown hues. Following the clay unit, a saturated silty gravel to sandy gravel unit was encountered at depth and appeared to be artesian in nature based on the geotechnical borings performed by Geoengineers Inc.

Geoengineers Inc. advanced three geotechnical borings: one in the western corner of the Site (GT-1), one slightly southwest of the Site (GT-3), and one east of the Olympic Pipe Line System Centerlines (GT-2) (Figure 4). These borings show the presence of a glacial outwash unit ranging from 2.0- to 3.0-foot thickness that underlies the clay unit. The glacial outwash unit consists of silty gravel and sand unit. The glacial outwash unit is followed by a dense and wet silty fine sand unit to the depth of at least approximately 38.0 feet bgs. Groundwater was observed to have risen to or above ground surface in the auger at the completion of these borings.

Relevant soil boring logs are included in the Initial Site Investigation Report (July 2, 2024) prepared by WSP.

1.3 Purpose and Scope of Future Work

The purpose of this additional site investigation is to further determine the nature and extent of the COCs in soil following release response excavation activities so that future remediation actions can be evaluated. The following COCs were identified during the emergency response phase of this cleanup:

- Benzene, toluene, ethylbenzene and xylene (BTEX)
- Total petroleum hydrocarbons (TPH) – GRO/NWTPH

Based on spill response work and subsequent investigation activities summarized in Section 1.1, the scope of work for this investigation identified the following activities:

- 1) Collect soil samples from the block valve area (Figure 9) where residual COC concentrations were observed above the MTCA Method A CULs.
- 2) Initiate long-term, post-excavation soil monitoring of the A-2 and A-3 Areas where full cleanup was not achieved (to be performed at a later date following vegetation establishment).

For additional description of the field methodology to be implemented for the scope of work, see Section 2.0.

2.0 SITE INVESTIGATION WORK PLAN

The objectives of the work to be performed under this work plan are to 1) collect soil samples to characterize the post-response excavation extent of horizontal and vertical impacts in the A-1 Area near the block valve where cleanup was not achieved, and 2) monitor long-term degradation of benzene and other COCs found in the clay at the base of the excavation in the A-2 and A-3 Areas (proposed to be performed at later date with concurrence from Ecology). The additional investigations will consist of the following field tasks:

- Collect and analyze up to two soil samples from each of the seven shallow hand auger borings (the A-1 Area) and seven direct push borings in the A-2 and A-3 Areas based on field screening, lithological, and field observations.
- Describe the soils observed in the borings for soil type, color, grain size, and signs of debris or potentially hazardous substances.
- Screen soil samples with a PID and note visual observations at 2-foot intervals. Note any visual and olfactory evidence of contamination associated with the COCs.
- Record GPS locations of the soil borings.

2.1 Site Preparation

Before beginning drilling, the Site will be prepared using the following procedures:

- Verify 811 mark-out information and contact BP Pipeline in advance.
- Inspect each potential sampling location in the field for potential access problems (e.g., obstructions or hazards, standing water, soft ground, or on-site materials or equipment obstructing access).
- Mark the final sampling locations on the ground.
- Set up a work area to perform lithologic logging, field screening, and sample labeling.
- Set up receptacles for temporary storage of investigation-derived waste (IDW), if necessary.

2.2 Hand Auger Investigation – A-1 Area

This section summarizes the proposed process that will be used to perform hand auger borings and to collect and analyze soil samples for the A-1 Area. Figure 9 shows the approximate locations of the proposed hand augers.

Boring designation will begin with WSP/year (e.g., WSP/2025-B-1). Borings will be advanced using a hand auger to reach the desired sample depth of up to 5.0 to 6.0 feet bgs depending on field observations and PID readings. Final soil boring locations will depend on identifying and clearing possible infrastructure conflicts and subsurface obstructions.

All subsurface borings will be logged continuously by a qualified WSP field geologist to the soil boring's total depth. The lithologic log for each boring will be based on visual observation and description of the corresponding soil samples in accordance with ASTM International Standard D2488-09A, *Standard Practice for Description and Identification of Soils (Visual-Manual Procedure)*.

For the five hand auger that are resample/vertical delineation locations, samples are anticipated to be collected at 1) the original MTCA exceedance location or the highest PID detection, and 2) the end of the boring sample depending on PID results.

For the two delineation hand augers, two samples per boring are anticipated to be collected at 1) the highest PID detection, 2) the first low (< 5 ppm) PID reading, and/or 3) the end of the boring sample depending on PID results.

2.3 Direct Push Investigation – A-2 and A-3 Areas

This section summarizes the proposed process that will be used to install soil borings and to collect and analyze soil samples for the A-2 and A-3 Areas. The seven soil borings with exceedances (WSP-B-1, WSP-B-3, WSP-B-4, WSP-B-5, WSP-B-8, WSP-B-9, and WSP-B-11) will be probed to resample soil locations to evaluate degradation of residual contaminants. Figure 4 shows the approximate locations of soil borings to be resampled.

Boring designation will begin with WSP/year (i.e. WSP/2027-B-1). Soil borings will be advanced using a direct push rig to reach the desired sample depth. Final soil boring locations will depend on identifying and clearing possible conflicts and site accessibility due to unpaved surfaces and planted vegetation.

All subsurface borings will be logged continuously by a qualified WSP field geologist to the soil boring's total depth. The lithologic log for each boring will be based on visual observation and description of the corresponding soil samples in accordance with ASTM International Standard D2488-09A, *Standard Practice for Description and Identification of Soils (Visual-Manual Procedure)*.

Soil resamples will be collected at the corresponding depths of prior MTCA exceedances from each of the seven borings listed above.

2.4 Decontamination

Decontamination is performed as a quality assurance measure and a safety precaution to prevent cross-contamination between samples and to maintain a clean working environment. Decontamination is achieved mainly by rinsing with Alconox or similar mixed with tap water, and a final rinse with deionized water. Decontamination will be performed between each sample collection station and/or depth. Wherever possible, dedicated or disposable materials will be used for supplies that directly contact sampling equipment and containers to prevent cross-contamination.

All decontamination fluids will be containerized pending analytical testing to determine the appropriate disposal method. Drill rods, split-spoon samplers, and augers will be washed with a high-pressure, high-temperature wash before and between all drilling locations.

2.4.1 Sampling Equipment

Dedicated sampling equipment will be used whenever possible in the sampling process (disposable gloves, sample tubing, etc.). At a minimum, non-dedicated sampling equipment will be decontaminated before initial use and between sampling stations. Sampling equipment (i.e., spoons, bowls, etc.) will be decontaminated before field use.

2.4.2 Personal Protective Equipment

The investigation will be conducted under modified Level D protection (eye protection, steel-toe boots, hard hats, and protective gloves). Based on the results of previous investigations, COCs could include any of the analytes listed in Section 1.3 of this work plan.

Task-specific personal protective equipment (PPE) and monitoring levels for personnel safety are established in the Health and Safety Plan. If monitoring levels are exceeded, personnel will stand back from the work area until airborne contaminants decrease below the monitoring levels. WSP will plan for proper PPE to be used for each task of the investigation. Because of the listed COCs and the outdoor nature of the Site, monitoring levels are unlikely to be exceeded; therefore, workers are unlikely to need to wear respirators for a sustained period.

2.5 Investigation Waste

The sampling methods described in this work plan will generate IDW that may include soil, decontamination water, and purge water from sampling. Based on the Site's history and the results of previous investigations, COCs in IDW may include any of the analytes investigated in the study, depending on laboratory results.

All IDW generated during the field investigation will be temporarily stored in 55-gallon drums at the Site if necessary, and appropriate disposal arrangements will be made after receipt of analytical results. Drums will be clearly labeled with the type of material contained, the date the drum was filled, and sample location numbers corresponding to the location where the IDW originated.

3.0 SCHEDULE AND REPORTING

The investigation of the A-1 Area will be initiated in the summer or fall of 2025, and A-2 and A-3 Areas at a later date following the establishment of the vegetation. WSP will evaluate the data obtained during each investigation and will provide a written remedial investigation summary that includes the following:

- Summarizes the previous results of previous investigations and the findings of this investigation
- Describes the scope of work and fieldwork procedures
- Provides the sampling and analysis results, quality assurance/quality control results, and conclusions

The remedial investigation summary will include tables, figures, and analytical laboratory reports. Analytical results will be compared with screening levels that are appropriate for the medium analyzed and relevant to local regulatory guidance.

A remedial investigation report will be submitted approximately eight weeks after receiving the final data from the laboratory.

4.0 REFERENCES

CTEH. 2024. A2-A3 Excavation Addendum with Revisions. January 2024.

Antea Group. 2024. Soil Excavation and Soil Sampling Summary OPLC MP 46 Release – Conway, Washington. March 2024.

WSP. 2024. Initial Site Investigation Report. July 2, 2024.

CTEH. 2025. Environmental Sampling Report Jan 21, 2025

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Tables

Table 1: A-1 Area Soil Analytical Data by Antea Group

Sample ID	Date	Sample Depth (in)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (Total) (mg/kg)	Gasoline Range Organics (mg/kg)
WA - MTCA Method A Cleanup Levels SOIL			0.03	7	6	9	30
B-1	12/19/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	17
B-2	12/19/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
B-3	12/19/2023	24	0.55	5.2	0.3	1.48	24
B-3	1/29/2024	36	< 0.018	< 0.011	< 0.015	< 0.049	< 3.0
B-4	12/19/2023	24	0.72	3	< 0.01	0.042	12
B-4	1/23/2024	36	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
B-5	12/20/2023	24	0.026	0.055	< 0.01	< 0.03	4.1
B-6	12/20/2023	24	0.04	1.8	0.022	0.112	9.4
B-6	1/19/2024	30	< 0.0050	0.028	< 0.01	0.01	< 3.0
B-7	12/20/2023	24	< 0.0050	0.01	< 0.01	< 0.03	< 3.0
B-8	12/20/2023	24	0.045	2.1	0.043	1.25	12
B-8	1/24/2024	36	< 0.0050	0.013	< 0.01	0.014	< 3.0
B-9	12/20/2023	24	0.06	1.6	< 0.01	< 0.03	6.2
B-9	1/24/2024	36	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
B-10	12/21/2023	24	0.019	0.66	0.1	0.53	7.6
B-11	12/21/2023	24	0.034	3.5	0.016	0.114	21
B-11	1/24/2024	36	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
B-12	12/27/2023	24	2.1 E2	7.7 E2	0.97 E2	2.78 E2	9,200
B-12	1/5/2024	47	0.0073	0.37	0.014	0.079	5.9
B-12	1/10/2024	72	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
B-13	12/27/2023	24	< 0.0050	0.1	< 0.01	0.019	13
B-14	12/21/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
B-15	12/21/2023	24	2.9	27	5.1	28.9	440
B-15	1/23/2024	36	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
B-16	12/21/2023	24	0.0066	0.015	< 0.01	< 0.03	< 3.0
B-17	12/21/2023	24	0.021	2.2	< 0.01	0.062	12
B-18	12/27/2023	24	0.055	0.34	0.035	0.155	20
B-18	1/16/2024	72	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
B-19	12/27/2023	24	1 E2	3.6 E2	0.68 E2	2.27 E2	3,200
B-19	1/5/2024	47	26	860	170	860	10,000
B-19	1/16/2024	84	0.0091	0.046	< 0.01	< 0.03	< 3.0
B-20	12/27/2023	24	10	680 E	140	700	9,000
B-20	1/5/2024	47	3.8	170	46	180	2,700
B-20	1/16/2024	72	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
B-21	12/27/2023	24	11	350	89	460	6,100
B-21	1/16/2024	84	0.053	0.47	0.031	0.152	3.3
B-21	1/19/2024	90	0.047	0.4	< 0.01	< 0.03	< 3.0
B-22	12/27/2023	24	6.8	230 E	51	262	3,600
B-22	1/5/2024	47	5.6	200	46	235	2,600
B-22	1/19/2024	72	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
B-23	12/27/2023	24	0.37	11	0.57	5.4	50
B-23	1/25/2024	36	< 0.038	0.74	0.11	1.75	20
B-24	12/27/2023	24	2.1	85	25	132	2,100
B-24	1/5/2024	47	0.25	19	14	86	1,200
B-24	1/19/2024	72	< 0.0050	0.012	< 0.01	< 0.03	< 3.0
B-25	12/27/2023	24	0.008	0.047	< 0.01	0.018	13
B-26	1/5/2024	47	2.3	130	51	279	3,500
B-26	1/10/2024	72	< 0.0050	0.017	< 0.01	< 0.03	< 3.0
B-27	1/5/2024	47	1.8	31	6.3	35	510
B-27	1/19/2024	72	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
B-28	1/5/2024	47	1.4	26	4	22.3	220
B-28	1/19/2024	72	0.017	0.034	< 0.01	0.035	< 3.0
B-29	1/5/2024	47	25	790	180	940	11,000
B-29	1/16/2024	84	0.028	0.44	0.03	0.138	< 3.0
B-30	1/5/2024	47	9.8	450	100	520	6,100
B-30	1/16/2024	84	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
B-31	1/19/2024	84	0.023	0.052	< 0.01	< 0.03	< 3.0
SW-N-1	12/19/2023	12	1.2	17	1.4	8.3	110
SW-N-1	12/19/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 5.0
SW-N-1B	1/29/2024	12	< 0.019	1.4	0.073	12.8	110
SW-E-1	12/19/2023	12	0.012	0.23	< 0.01	0.021	< 3.0
SW-E-1	12/19/2023	24	0.0085	< 0.01	< 0.01	< 0.03	< 3.0
SW-S-1	12/19/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	54
SW-S-1	12/19/2023	24	0.0062	0.28	0.012	0.067	8.2
SW-W-1	12/19/2023	12	1	1.7	< 0.01	0.041	6.6
SW-W-1B	1/23/2024	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-W-1B	1/23/2024	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-2	12/19/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-2	12/19/2023	24	0.21	1.7	< 0.01	0.011	6.8
SW-E-2	12/19/2023	12	0.022	0.077	< 0.01	< 0.03	< 3.0
SW-E-2	12/19/2023	24	< 0.0050	< 0.01	< 0.01	0.027	< 3.0
SW-S-2	12/19/2023	12	< 0.0050	0.017	< 0.01	< 0.03	< 3.0
SW-S-2	12/19/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-3	12/19/2023	12	0.024	2.5	0.024	0.62	13
SW-N-3	12/19/2023	24	0.23	3	0.17	1.11	17
SW-N-3B	1/29/2024	12	< 0.027	< 0.016	< 0.023	< 0.072	< 3.0
SW-N-3B	1/29/2024	24	< 0.017	< 0.01	< 0.014	< 0.046	< 3.0
SW-E-3	12/19/2023	12	0.0068	3.5	0.39	4.1	44
SW-E-3	12/19/2023	24	0.55	12	2.6	15.4	170
SW-S-3	12/20/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-S-3	12/20/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-4	12/20/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-4	12/20/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-E-4	12/27/2023	12	5.4	370 E	83	400 E	5,700
SW-E-4	12/27/2023	24	1.8	110	29	150	1,800
SW-E-4B	1/23/2024	12	0.028	4.4	2.7	34	390

Table 1: A-1 Area Soil Analytical Data by Antea Group

Sample ID	Date	Sample Depth (in)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (Total) (mg/kg)	Gasoline Range Organics (mg/kg)
WA - MTCA Method A Cleanup Levels SOIL			0.03	7	6	9	30
B-1	12/19/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	17
B-2	12/19/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
B-3	12/19/2023	24	0.55	5.2	0.3	1.48	24
B-3	1/29/2024	36	< 0.018	< 0.011	< 0.015	< 0.049	< 3.0
B-4	12/19/2023	24	0.72	3	< 0.01	0.042	12
B-4	1/23/2024	36	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
B-5	12/20/2023	24	0.026	0.055	< 0.01	< 0.03	4.1
B-6	12/20/2023	24	0.04	1.8	0.022	0.112	9.4
B-6	1/19/2024	30	< 0.0050	0.028	< 0.01	0.01	< 3.0
B-7	12/20/2023	24	< 0.0050	0.01	< 0.01	< 0.03	< 3.0
B-8	12/20/2023	24	0.045	2.1	0.043	1.25	12
B-8	1/24/2024	36	< 0.0050	0.013	< 0.01	0.014	< 3.0
B-9	12/20/2023	24	0.06	1.6	< 0.01	< 0.03	6.2
B-9	1/24/2024	36	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
B-10	12/21/2023	24	0.019	0.66	0.1	0.53	7.6
SW-E-4B	1/23/2024	24	0.14	5.2	0.16	3.4	35
SW-E-4C	1/29/2024	12	0.33	18	3.6	33	300
SW-E-4C	1/29/2024	24	< 0.023	0.055	< 0.019	0.154	< 3.0
SW-E-4C	1/29/2024	36	0.24	0.014	0.053	< 0.058	91
SW-S-4	12/20/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-S-4	12/20/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-5	12/20/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-5	12/20/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-S-5	12/20/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-S-5	12/20/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-6	12/21/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-6	12/21/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-S-6	12/21/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-S-6	12/21/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-7	12/27/2023	12	< 0.0050	< 0.01	< 0.01	0.053	10
SW-N-7	12/27/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-7	1/5/2024	36	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-7	1/10/2024	47	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-S-7	12/27/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	6.4
SW-S-7	12/27/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-8	12/21/2023	12	0.77	6.6	0.28	0.9	30
SW-N-8	12/21/2023	24	< 0.0050	0.013	< 0.01	< 0.03	< 3.0
SW-N-8B	1/23/2024	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-S-8	12/21/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-S-8	12/21/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-9	12/21/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-9	12/21/2023	24	0.011	0.49	< 0.01	0.034	< 3.0
SW-S-9	12/21/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-S-9	12/21/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-10	12/27/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-10	12/27/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-10	1/16/2024	47	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-S-10	12/27/2023	24	0.3 E2	0.98 E2	0.68 E2	2.53 E2	460
SW-S-10	12/27/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	23
SW-S-10	1/5/2024	47	< 0.021	0.64	0.16	0.93	13
SW-S-10	1/16/2024	47	< 0.0050	0.018	< 0.01	0.011	< 3.0
SW-S-10B	1/16/2024	24	0.25	7.3	1	5.1	67
SW-S-10C	1/19/2024	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-11	12/27/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-11	12/27/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-11	1/5/2024	47	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-S-11	12/27/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-S-11	12/27/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-12	12/27/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	5.3
SW-N-12	12/27/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-12	1/5/2024	47	< 0.0050	0.02	< 0.01	< 0.03	< 3.0
SW-S-12	12/27/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-S-12	12/27/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-13	12/27/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	3.9
SW-N-13	12/27/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-13	1/5/2024	47	< 0.0050	0.014	< 0.01	< 0.03	< 3.0
SW-S-13	12/27/2023	12	< 0.0050	0.018	< 0.01	0.043	10
SW-S-13	12/27/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-14	1/19/2024	47	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-S-14	1/19/2024	47	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0

Notes:

Shaded exceedances have been removed by soil excavation

Results in bold exceed MTCA action limit

(mg/kg) = milligrams/kilograms

in = Inches

NGV = No given value

-- = No information

ND = Not detected

< = Not detected at or above indicated laboratory reporting limit

E = Reported result is an estimate because it exceeds the calibration range.

E2 = Reported result is an estimate because it exceeds the calibration range. The actual value for this analyte is probably much higher than reported.

Table 2 - Hand Auger S037 thru S040 Soil Analytical Data by CTEH

Analyte	MTCA Method A CUL (ug/kg)	Sample ID S037-5'	Sample ID S038-3'	Sample ID S039-2'	Sample ID S040-4'
Benzene	30	<0.974	<0.97	<1.11	<0.77
Ethylbenzene	6000	<1.54	<1.53	<1.74	<1.21
Toluene	7000	7.2 (J)	3.11 (J)	<3.08	3.55 (J)
Xylenes	9000	<9.24	<1.83	<2.08	<5.32
Diesel Range Organics (DRO)	2000000	<2,050	18,000	<2,070	<1,730
Residual Range Organics (RRO)	2000000	<5,140	34,300	<5,190	<4,320
Gasoline Range Organics (GRO)	30000	<1,770	<1,760	<2,010	<1,400

Notes:

All concentrations in ug/kg.

ND = not detected at or above the sample reporting limit. All reporting limits were below MTCA Method A CULs.

Red Text: The result value is greater than the screening value

Green Text: The result value is less than the screening value

Table 3: Analytical Results from Direct Push Soil Samples

	Sample ID	WSP-B-1-4'	WSP-B-1-6'	WSP-B-1-8'	WSP-B-2-10'	WSP-B-2-12'
Analyte	MTCA Method A CUL (mg/kg)					
Benzene	0.03	ND	0.0798	0.641	ND	ND
Ethylbenzene	6	0.447	0.0735	ND	0.00370	0.00416
Toluene	7	0.0485	0.00721	ND	0.00412	ND
Xylenes	9	6.07	0.0889	ND	0.0157	0.00361
Diesel Range Organics	2000	47.8	ND	ND	ND	ND
Residual Range Organics	2000	249	ND	ND	ND	ND
Gasoline Range Organics	30	68.2	4.61	2.41	ND	3.59

Notes:

All concentrations in mg/kg.

CUL - Cleanup Levels

MTCA- Model Toxic Control Act

mg/kg - milligram per kilogram

ND = not detected

Red Text: The result value is greater than the screening value

Green Text: The result value is less than the screening value

Table 3: Analytical Results from Direct Push Soil Samples

	Sample ID	WSP-B-3-8'	WSP-B-3-10'	WSP-B-3-15'	WSP-B-4-6'	WSP-B-4-10'
Analyte	MTCA Method A CUL (mg/kg)					
Benzene	0.03	0.730	0.598	0.00146	0.00626	0.289
Ethylbenzene	6	1.40	0.327	0.00634	0.143	ND
Toluene	7	0.0327	0.00932	0.00334	0.0415	ND
Xylenes	9	0.399	0.279	0.0125	0.296	ND
Diesel Range Organics	2000	13.0	23	ND	2.76	ND
Residual Range Organics	2000	ND	ND	ND	ND	ND
Gasoline Range Organics	30	19.3	2.94	2.16	13.1	1.79

Notes:

All concentrations in mg/kg.

CUL - Cleanup Levels

MTCA- Model Toxic Control Act

mg/kg - milligram per kilogram

ND = not detected

Red Text: The result value is greater than the screening value

Green Text: The result value is less than the screening value

Table 3: Analytical Results from Direct Push Soil Samples

	Sample ID	WSP-B-4-15'	WSP-B-5-6'	WSP-B-5-10'	WSP-B-5-15'	WSP-B-6-6'
Analyte	MTCA Method A CUL (mg/kg)					
Benzene	0.03	ND	0.00177	1.25	ND	0.00563
Ethylbenzene	6	ND	0.0415	ND	ND	0.0132
Toluene	7	ND	0.00744	0.00437	ND	0.0611
Xylenes	9	0.00295	0.0852	0.00342	0.00348	0.0841
Diesel Range Organics	2000	ND	10.2	ND	ND	ND
Residual Range Organics	2000	ND	ND	ND	ND	ND
Gasoline Range Organics	30	3.13	11.9	4.39	2.67	3.8

Notes:

All concentrations in mg/kg.

CUL - Cleanup Levels

MTCA- Model Toxic Control Act

mg/kg - milligram per kilogram

ND = not detected

Red Text: The result value is greater than the screening value

Green Text: The result value is less than the screening value

Table 3: Analytical Results from Direct Push Soil Samples

	Sample ID	WSP-B-6-12'	WSP-B-7-8'	WSP-B-7-12'	WSP-B-7-15'	WSP-B-8-8'
Analyte	MTCA Method A CUL (mg/kg)					
Benzene	0.03	ND	0.0199	ND	ND	1.33
Ethylbenzene	6	ND	0.0242	ND	ND	0.0694
Toluene	7	ND	0.0671	ND	ND	0.0588
Xylenes	9	0.00233	0.0858	0.00326	0.00295	0.0177
Diesel Range Organics	2000	ND	ND	ND	ND	ND
Residual Range Organics	2000	ND	ND	ND	ND	ND
Gasoline Range Organics	30	2.24	1.99	1.71	2.83	6.34

Notes:

All concentrations in mg/kg.

CUL - Cleanup Levels

MTCA- Model Toxic Control Act

mg/kg - milligram per kilogram

ND = not detected

Red Text: The result value is greater than the screening value

Green Text: The result value is less than the screening value

Table 3: Analytical Results from Direct Push Soil Samples

	Sample ID	WSP-B-8-12'	WSP-B-9-8'	WSP-B-9-12'	WSP-B-10-8'	WSP-B-10-12'
Analyte	MTCA Method A CUL (mg/kg)					
Benzene	0.03	0.00843	0.168	ND	0.000818	ND
Ethylbenzene	6	0.00323	0.341	0.00241	ND	ND
Toluene	7	0.00575	0.271	ND	ND	ND
Xylenes	9	0.00401	0.481	ND	ND	ND
Diesel Range Organics	2000	ND	ND	ND	ND	ND
Residual Range Organics	2000	ND	ND	ND	ND	ND
Gasoline Range Organics	30	1.70	12.3	1.93	ND	ND

Notes:

All concentrations in mg/kg.

CUL - Cleanup Levels

MTCA- Model Toxic Control Act

mg/kg - milligram per kilogram

ND = not detected

Red Text: The result value is greater than the screening value

Green Text: The result value is less than the screening value

Table 3: Analytical Results from Direct Push Soil Samples

	Sample ID	WSP-B-11-8'	WSP-B-11-12'	WSP-B-11-15'	WSP-B-12-8'	WSP-B-12-12'
Analyte	MTCA Method A CUL (mg/kg)					
Benzene	0.03	0.676	0.647	0.00296	ND	ND
Ethylbenzene	6	1.13	0.621	0.00175	ND	ND
Toluene	7	0.00714	0.0201	0.00366	ND	ND
Xylenes	9	0.0377	0.0903	0.00301	ND	ND
Diesel Range Organics	2000	6.04	ND	ND	ND	ND
Residual Range Organics	2000	ND	ND	ND	ND	ND
Gasoline Range Organics	30	16.2	11.1	1.97	ND	ND

Notes:

All concentrations in mg/kg.

CUL - Cleanup Levels

MTCA- Model Toxic Control Act

mg/kg - milligram per kilogram

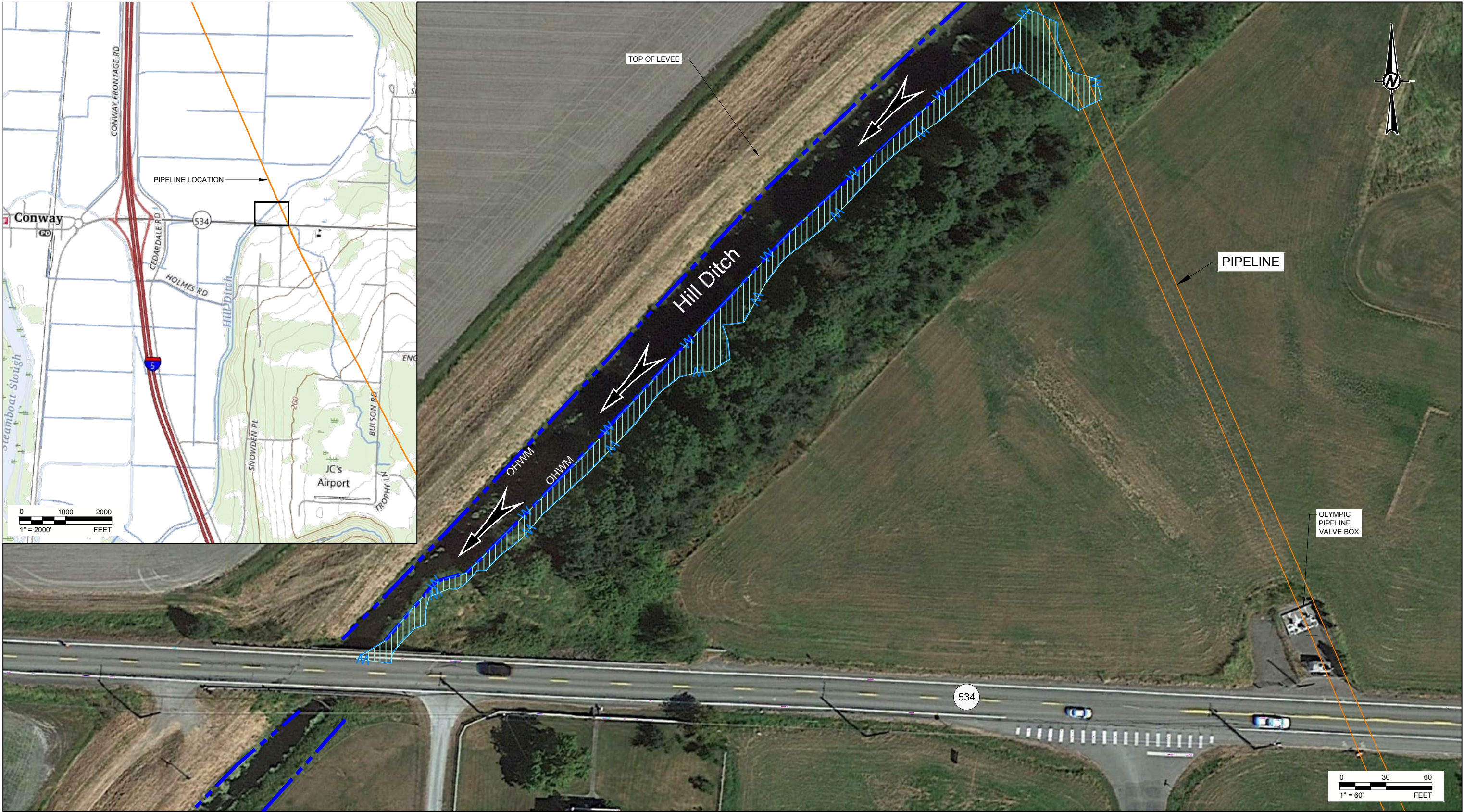
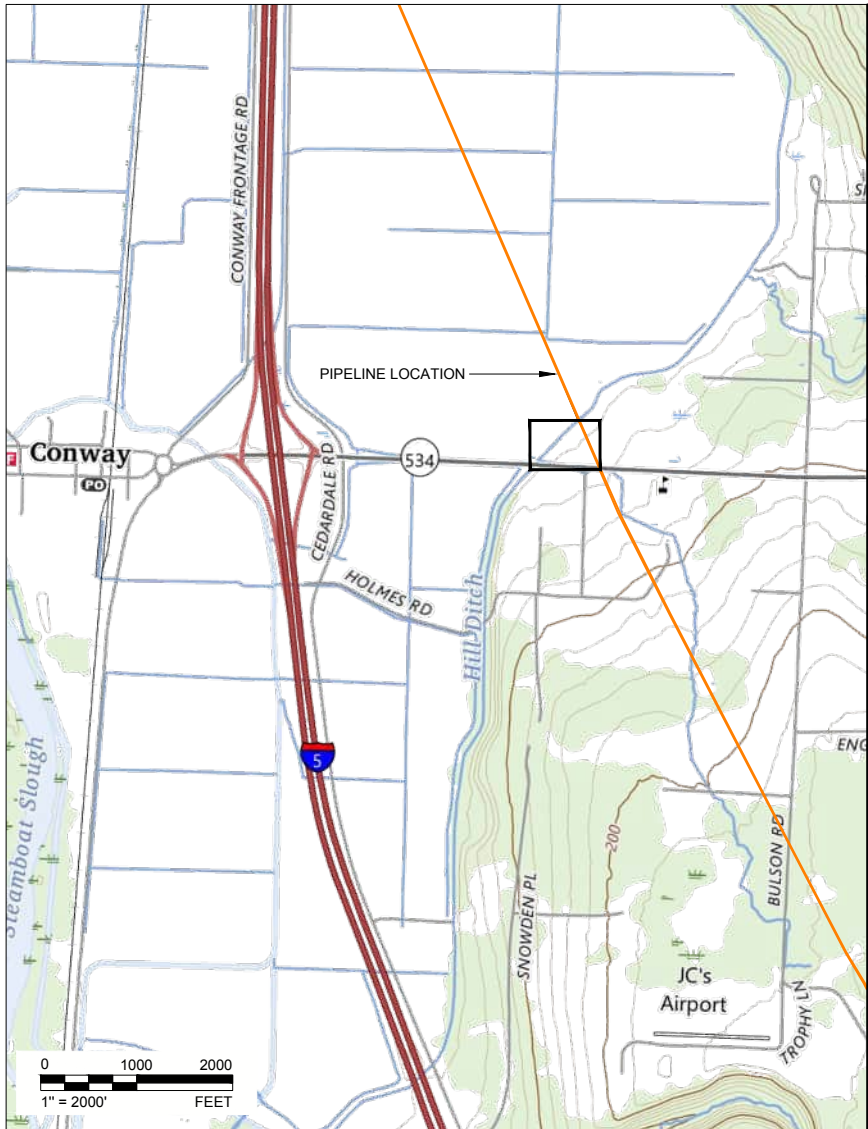
ND = not detected

Red Text: The result value is greater than the screening value

Green Text: The result value is less than the screening value

Figures

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LEGEND

 WETLAND A

 ORDINARY HIGH WATER MARK (OHWM)

- REFERENCE(S)**
1. U.S.G.S. CONWAY QUAD
 2. AERIAL IMAGE FROM GOOGLE EARTH PRO (AUGUST 2022).

CLIENT
BP REMEDIATION GROUP

CONSULTANT



YYYY-MM-DD	2024-06-08
DESIGNED	GL
PREPARED	APS
REVIEWED	XXX
APPROVED	XXX

PROJECT
OLYMPIC PIPELINE GASOLINE SPILL RESPONSE

TITLE
SITE LOCATION

PROJECT NO.	CONTROL	REV.	FIGURE
31405867.117		----	1

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

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LEGEND

- WETLAND A
- ORDINARY HIGH WATER MARK (OHWM)
- DIVISION BOUNDARY
- EXCAVATION BOUNDARY

- SW-N-1B SAMPLE LOCATION (ANTEAGROUP 2024)
- SW-N-1B SAMPLE LOCATION (ANTEAGROUP 2024)
(HAD ONE OR MORE MTCA METHOD A CLEANUP LEVELS EXCEEDANCE)
- S034 CTEH CONFIRMATION SAMPLE LOCATION

REFERENCE(S)

1. AERIAL IMAGE FROM GOOGLE EARTH PRO (AUGUST 2022).

NOTE(S)

1. ALL RESULTS SHOWN ARE IN MILLIGRAMS PER KILOGRAM (MG/KG).
2. **BOLD** INDICATES EXCEEDANCE.

ABBREVIATION(S)

- B = BENZENE
T = TOLUENE
E = ETHYLBENZENE
X = XOLUENE (TOTAL)
- TPH-G = TOTAL
PETROLEUM
HYDROCARBONS
AS GASOLINE

MTCA Method A Cleanup Levels				
B	T	E	X	TPH-G
0.03	7	6	9	30

CLIENT
BP REMEDIATION GROUP

CONSULTANT



YYYY-MM-DD 2025-06-19

DESIGNED DT

PREPARED APS

REVIEWED XXX

APPROVED XXX

PROJECT
OLYMPIC PIPELINE GASOLINE SPILL RESPONSE

TITLE
A-1 SAMPLE LOCATIONS

PROJECT NO.
US0043610.2851

CONTROL

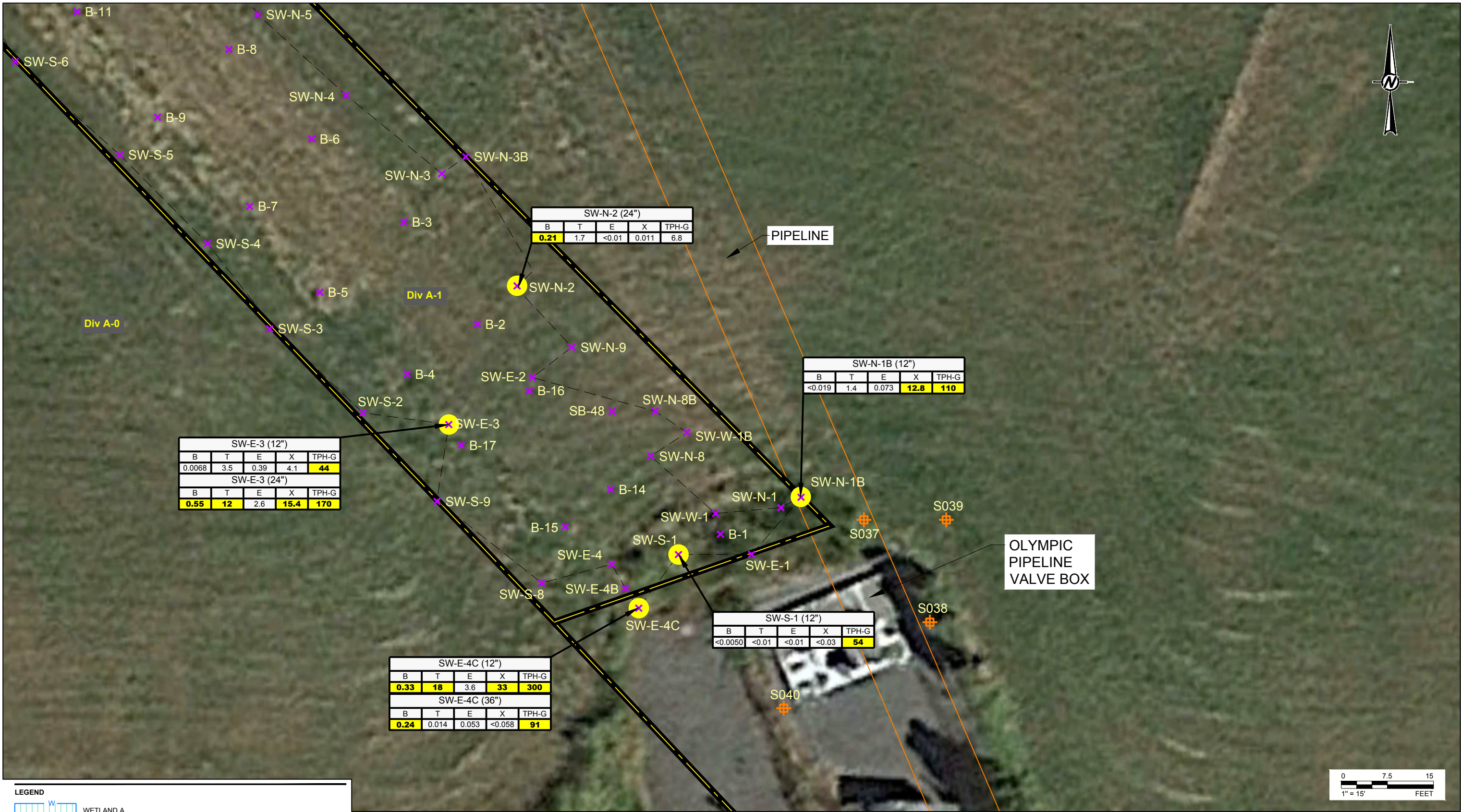
REV.

FIGURE

2

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

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LEGEND

- WETLAND A
- ORDINARY HIGH WATER MARK (OHWM)
- DIVISION BOUNDARY
- EXCAVATION BOUNDARY
- SW-W-1 SW-N-1B S034
- SAMPLE LOCATION (ANTEAGROUP 2024)
- SAMPLE LOCATION (ANTEAGROUP 2024)
(HAD ONE OR MORE MTCA METHOD A CLEANUP LEVELS EXCEEDANCE)
- CTE CONFIRMATION SAMPLE LOCATION

REFERENCE(S)

1. AERIAL IMAGE FROM GOOGLE EARTH PRO (AUGUST 2022).

NOTE(S)

1. ALL RESULTS SHOWN ARE IN MILLIGRAMS PER KILOGRAM (MG/KG).
2. **BOLD** INDICATES EXCEEDANCE.

ABBREVIATION(S)

B = BENZENE
T = TOLUENE
E = ETHYLBENZENE
X = XOLUENE (TOTAL)

TPH-G = TOTAL
PETROLEUM
HYDROCARBONS
AS GASOLINE

MTCA Method A Cleanup Levels				
B	T	E	X	TPH-G
0.03	7	6	9	30

CLIENT

BP REMEDIATION GROUP

CONSULTANT



DATE

2025-06-12

DESIGNED

DT

PREPARED

APS

REVIEWED

XXX

APPROVED

XXX

PROJECT

OLYMPIC PIPELINE GASOLINE SPILL RESPONSE

TITLE

A-1 VALVE BOX AREA SAMPLE LOCATIONS

PROJECT NO.

US0043610.2851

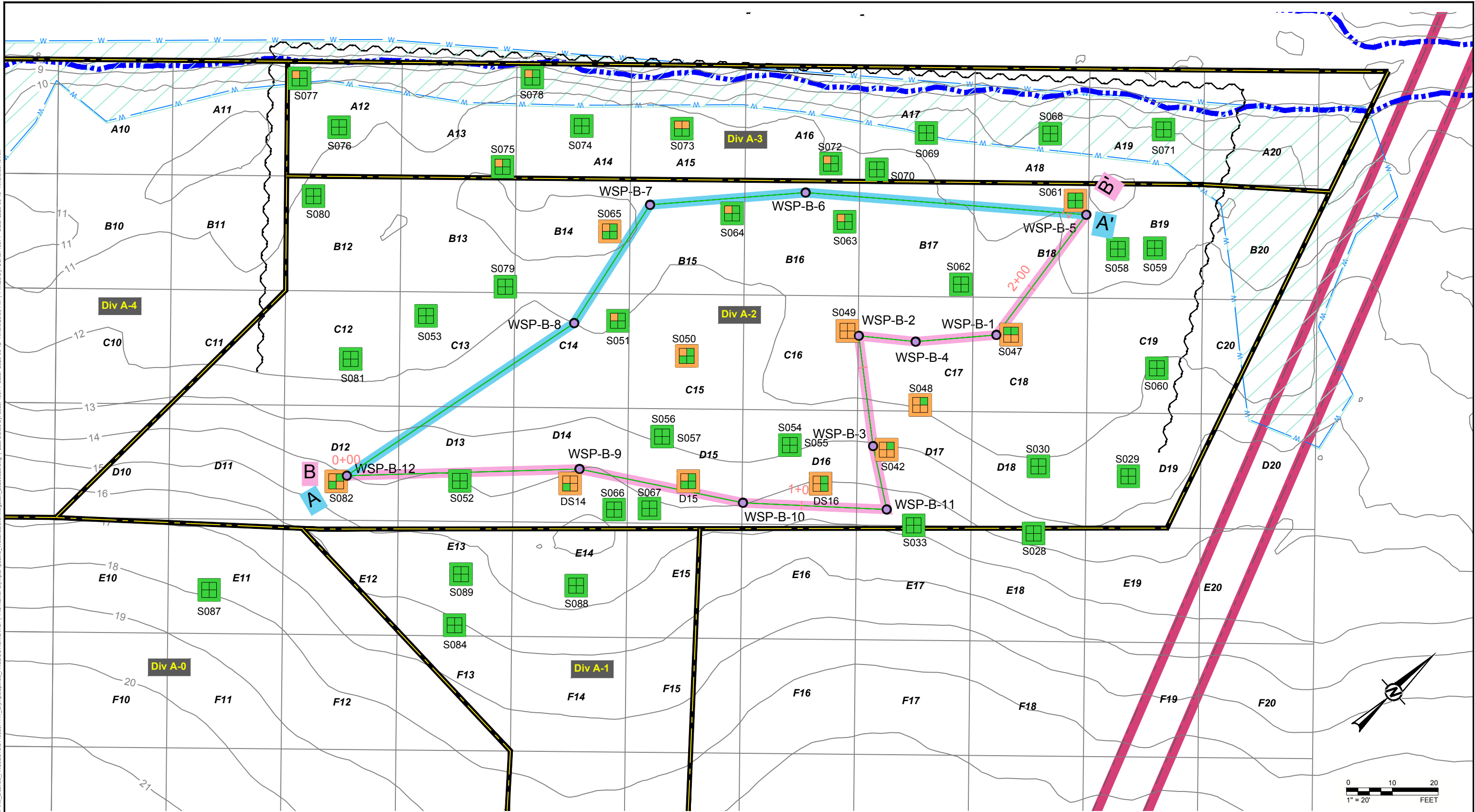
CONTROL

REV.

FIGURE

3

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LEGEND

- OLYMPIC PIPELINE SYSTEM CENTERLINES
- WETLAND A
- ORDINARY HIGH WATER MARK (OHWM)
- GROUND SURFACE (1' AND 5' CONTOURS)
- DIVISION BOUNDARY
- WSP BORING LOCATION

NON WSP SOIL SAMPLES



COORDINATES FOR THESE SAMPLING LOCATIONS WERE NOT CAPTURED AT THE TIME OF THE SAMPLING

TPH-Gx	
B	T
E	X

Analyte	Screening Value (ug/kg)
TPH-Gx: Total Petroleum Hydrocarbons - Gasoline Range	30,000
B: Benzene	30
T: Toluene	7,000
E: Ethylbenzene	6,000
X: Xylenes	9,000

Below screening value Above screening value

CLIENT
OLYMPIC PIPELINE COMPANY, LLC
CONWAY, WASHINGTON

CONSULTANT



YYYY-MM-DD 2025-06-12

DESIGNED GL

PREPARED APS

REVIEWED GL

APPROVED DT

PROJECT
OLYMPIC PIPELINE GASOLINE SPILL RESPONSE

TITLE
A-2 AND A-3 AREA CROSS SECTION LOCATIONS

PROJECT NO.
US0043610.2851

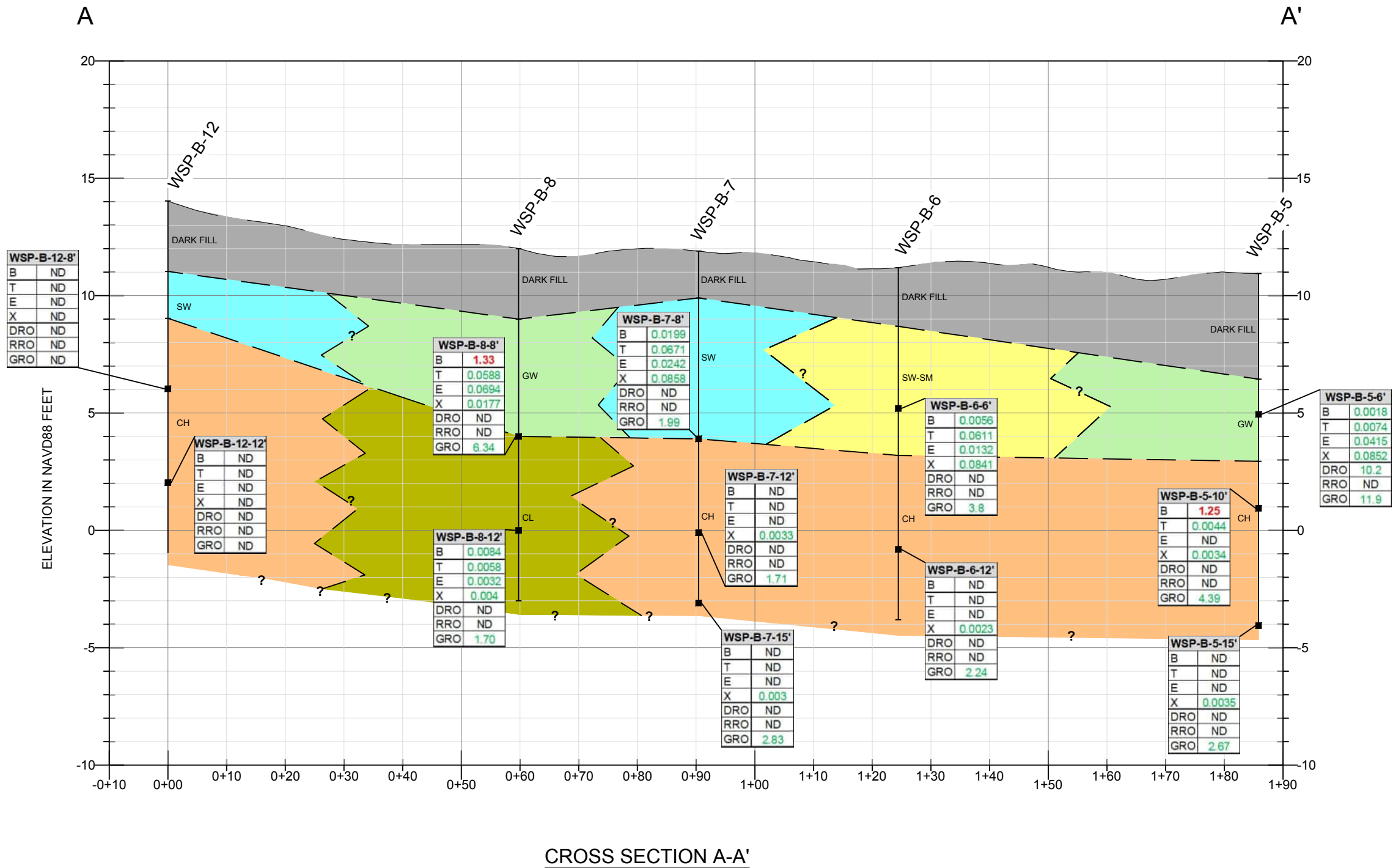
CONTROL

REV.

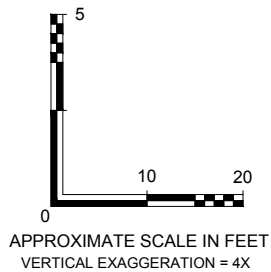
FIGURE
5

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

Path: \\vorp-pblan-net\USCentralData\USX_C300\geomatics\BPM\H_Dispatch99_PROJECT\TS1405667_117_OlympicSpill\03_PRODUCTION\DWG - I File Name: OlympicSpill\03_PRODUCTION\DWG - I Date: 2025-07-11 Time: 11:46:53 AM | Last Edited By: usa8719374 Date: 2025-07-11 Time: 11:48:51 AM



CROSS SECTION A-A'



KEY	
	DARK FILL
	SAND WITH GRAVEL
	GRAVEL WITH SAND
	SILTY SAND
	FAT CLAY
	LEAN CLAY

ABBREVIATIONS:
CUL - CLEANUP LEVELS
MTCA - MODEL TOXIC CONTROL ACT
mg/kg - MILLIGRAM PER KILOGRAM

MTCA Method A CUL (mg/kg)	
Benzene (B)	0.03
Toluene (T)	7
Ethylbenzene (E)	6
Xylenes (X)	9
Diesel Range Organics (DRO)	2000
Residual Range Organics (RRO)	2000
Gasoline Range Organics (GRO)	30

ND = NOT DETECTED AT OR ABOVE THE SAMPLE REPORTING LIMIT.
ALL REPORTING LIMITS WERE BELOW MTCA METHOD A CULS.
RED TEXT - THE RESULT VALUE IS GREATER THAN THE SCREENING VALUE
GREEN TEXT - THE RESULT VALUE IS LESS THAN THE SCREENING VALUE

CLIENT
OLYMPIC PIPELINE COMPANY, LLC
CONWAY, WASHINGTON

CONSULTANT	YYYY-MM-DD	2025-06-12
DESIGNED	GL	
PREPARED	APS	
REVIEWED	GL	
APPROVED	DT	



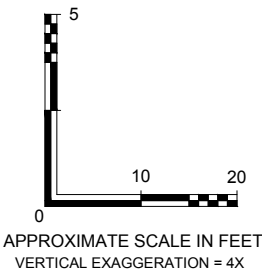
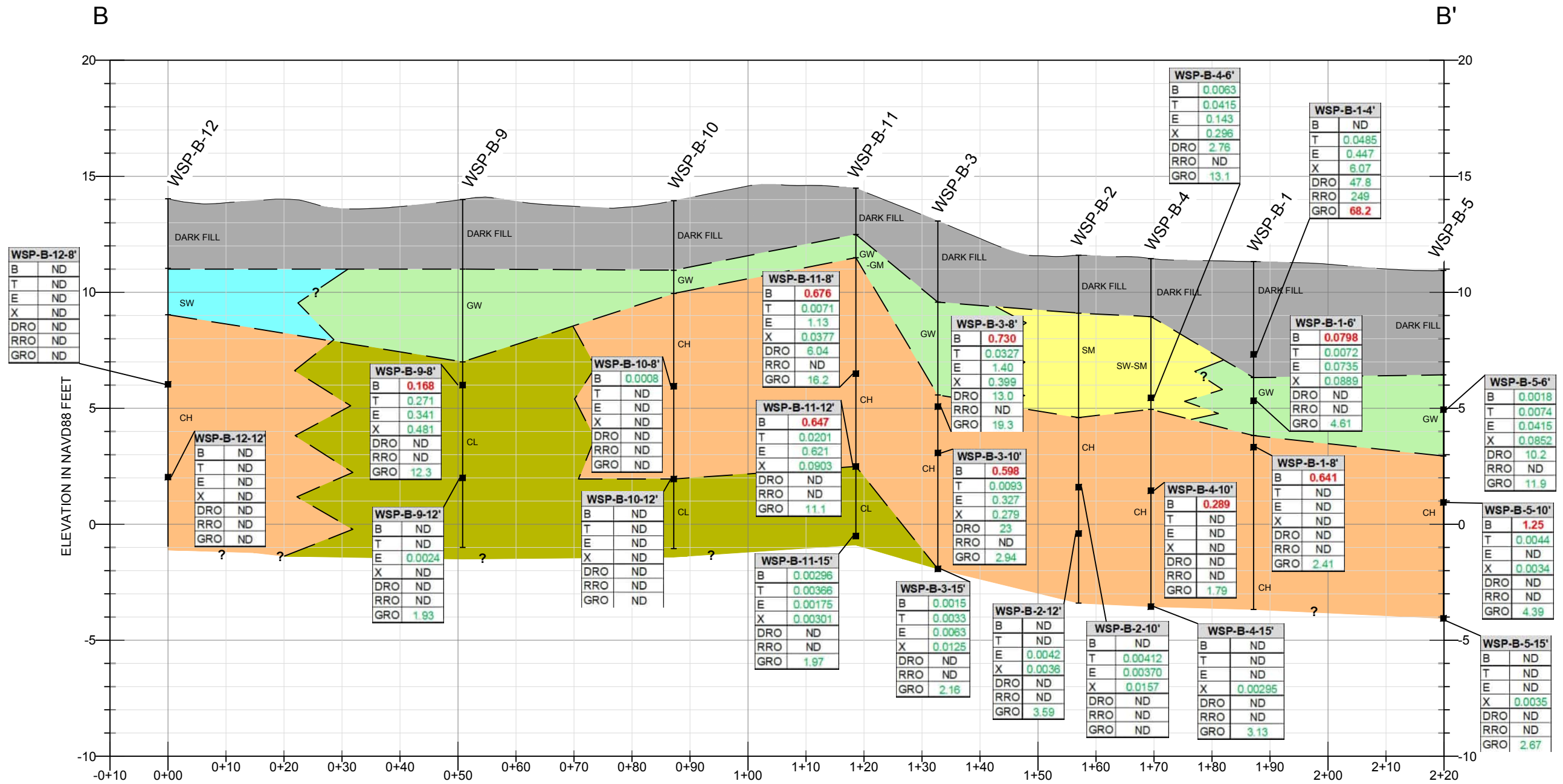
PROJECT
OLYMPIC PIPELINE GASOLINE SPILL RESPONSE

TITLE
CROSS SECTION A-A' SHOWING THE VERTICAL EXTENT OF COCs FOR SOIL SAMPLES FROM DIRECT PUSH BORINGS

PROJECT NO.	CONTROL	REV.	FIGURE
US0043610.2851		----	6

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

Path: \\vorp-pblan-net\US-CentralData\USX_C300\geomatics\BPM\HIE_Dispatch99_PROJECT\TS1405667_117_OlympicSpill\03_PRODUCT\DWG\B-117_OlympicSpill\03_PRODUCT\DWG\B-117_OlympicSpill.dwg | Last Edited By: usa2719374 | Date: 2025-07-11 | Time: 11:46:53 AM | Printed By: USA2719374 | Date: 2025-07-11 | Time: 11:46:16 AM



KEY	
DARK FILL	DARK FILL
SW	SAND WITH GRAVEL
GW	GRAVEL WITH SAND
SM	SILTY SAND
CH	FAT CLAY
CL	LEAN CLAY

ABBREVIATIONS:
CUL - CLEAN UP LEVELS
MTCA - MODEL TOXIC CONTROL ACT
mg/kg - MILLIGRAM PER KILOGRAM

MTCA Method A CUL (mg/kg)	
Benzene (B)	0.03
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CLIENT
OLYMPIC PIPELINE COMPANY, LLC
CONWAY, WASHINGTON

CONSULTANT	YYYY-MM-DD	2025-06-12
DESIGNED	GL	
PREPARED	APS	
REVIEWED	GL	
APPROVED	DT	

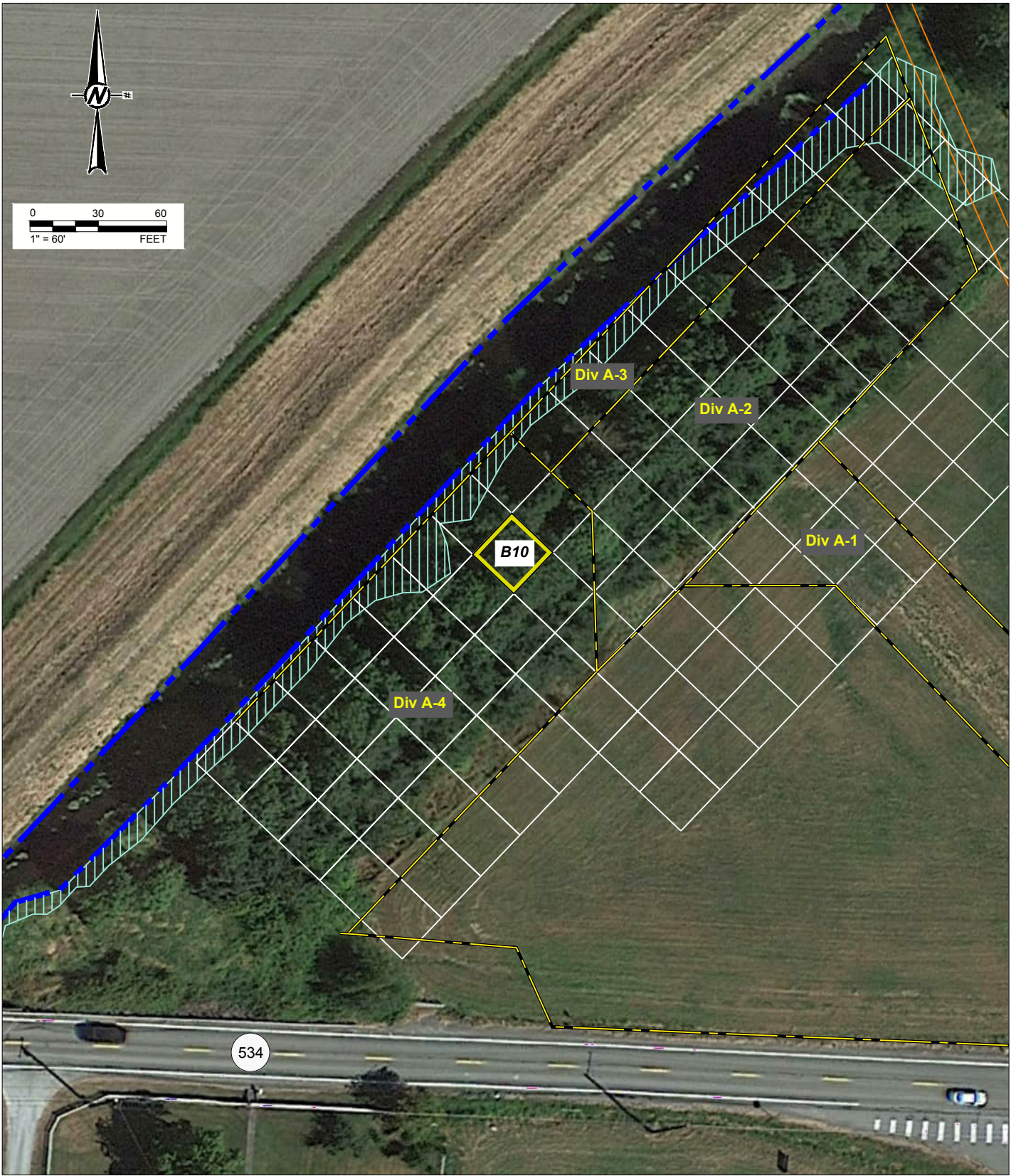


PROJECT
OLYMPIC PIPELINE GASOLINE SPILL RESPONSE

TITLE
CROSS SECTION B-B' SHOWING THE VERTICAL EXTENT OF COCs FOR SOIL SAMPLES FROM DIRECT PUSH BORINGS

PROJECT NO.	CONTROL	REV.	FIGURE
US0043610.2851		----	7

Path: \\vorp.plaban.net\USCentralData\USX_C300\geomatics\BPM\HIE_Dispatch99_PROJECT\TSU1405667_117_Olympic_Soil03_PRODUCT\DWG\DWG | File Name: OlympicSoil03_PRODUCT\DWG\DWG | Last Edited By: usa2719374 Date: 2025-06-12 Time: 12:03:36 PM | Printed By: usa2719374 Date: 2025-06-12 Time: 12:14:38 PM



LEGEND

- OLYMPIC PIPELINE SYSTEM CENTERLINES
- WETLAND A
- ORDINARY HIGH WATER MARK (OHWM)
- DIVISION BOUNDARY
- NON-WSP SOIL SAMPLES

ABBREVIATIONS:

CUL - CLEANUP LEVELS
MTCA - MODEL TOXIC CONTROL ACT
mg/kg - MILLIGRAM PER KILOGRAM

NOTES:

COORDINATES FOR THESE SAMPLING LOCATIONS WERE NOT CAPTURED AT THE TIME OF THE SAMPLING. LOCATIONS OF THE SAMPLES IN THE GRID B10 ARE ESTIMATED BASED ON FIELD DOCUMENTATION.

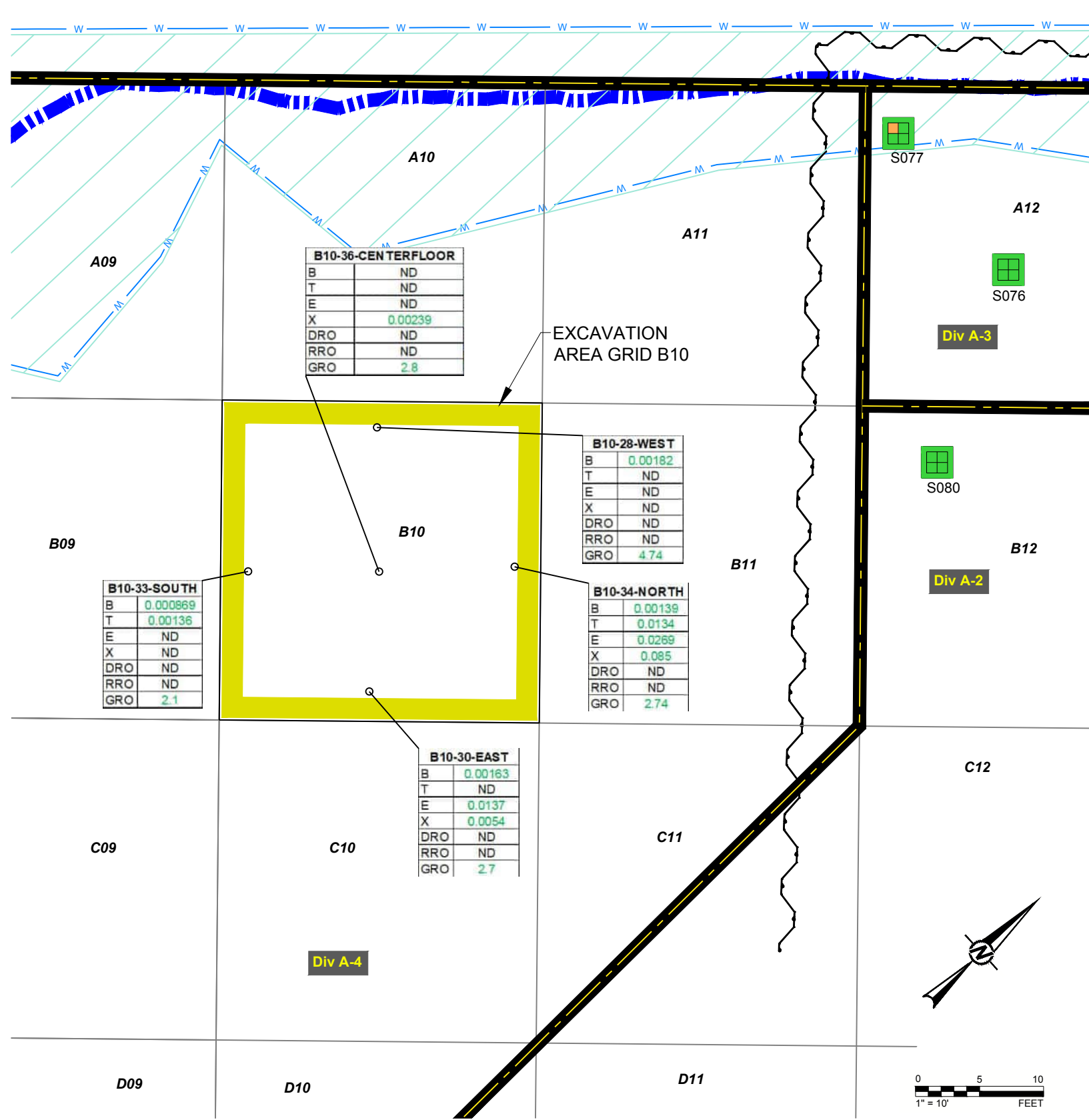
MTCA Method A CUL (mg/kg)	
Benzene (B)	0.03
Toluene (T)	7
Ethylbenzene (E)	6
Xylenes (X)	9
Diesel Range Organics (DRO)	2000
Residual Range Organics (RRO)	2000
Gasoline Range Organics (GRO)	30

ND = NOT DETECTED AT OR ABOVE THE SAMPLE REPORTING LIMIT.

ALL REPORTING LIMITS WERE BELOW MTCA METHOD A CULS.

RED TEXT - THE RESULT VALUE IS GREATER THAN THE SCREENING VALUE

GREEN TEXT - THE RESULT VALUE IS LESS THAN THE SCREENING VALUE



CLIENT
OLYMPIC PIPELINE COMPANY, LLC
CONWAY, WASHINGTON

CONSULTANT



YYYY-MM-DD 2025-06-12

DESIGNED GL

PREPARED APS

REVIEWED GL

APPROVED DT

PROJECT
OLYMPIC PIPELINE GASOLINE SPILL RESPONSE

TITLE
ANALYTICAL RESULTS FOR SOIL SAMPLES
FROM GRID B10

PROJECT NO.
US0043610.2851

CONTROL

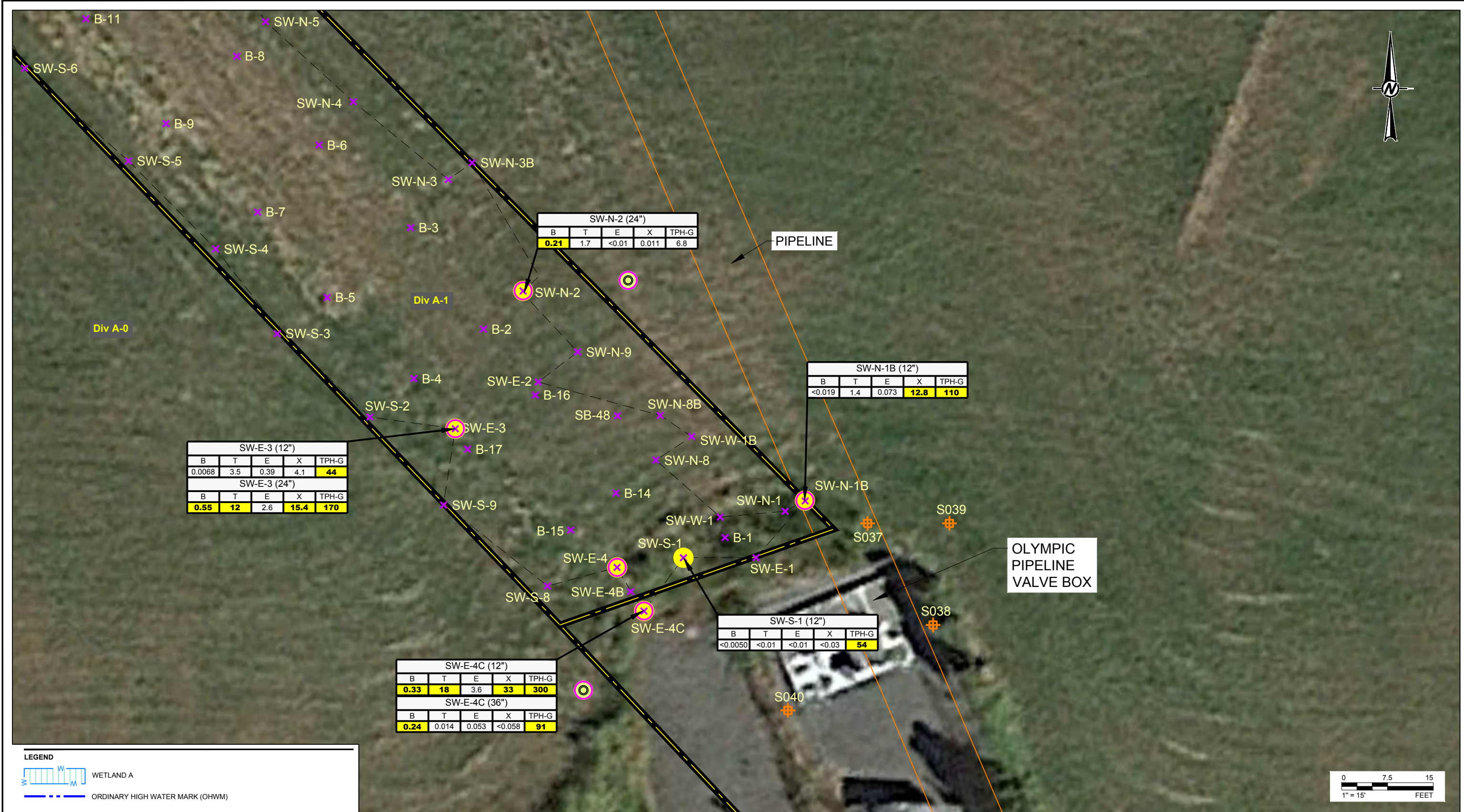
REV.

FIGURE

8

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

Path: \\norp-pblan-net\USCentralData\USX_C300\generates\BPH\17_OlympicSpill\03_PRODUCTION\DWG | File Name: OlympicPipeline_ChemBoxes_ValeBox_20250619.dwg | Last Edited By: usast719374 | Date: 2025-06-19 | Time: 9:44:16 AM | Printed By: USAST719374 | Date: 2025-06-19 | Time: 9:44:16 AM



LEGEND

- WETLAND A
- ORDINARY HIGH WATER MARK (OHWM)
- DIVISION BOUNDARY
- EXCAVATION BOUNDARY

- PROPOSED SAMPLE LOCATION
- SW-N-1B SAMPLE LOCATION (ANTEAGROUP 2024) TO BE RESAMPLED AND VERTICALLY DELINEATED
- SW-W-1 SAMPLE LOCATION (ANTEAGROUP 2024)
- SW-N-1B SAMPLE LOCATION (ANTEAGROUP 2024) (HAD ONE OR MORE MTCA METHOD A CLEANUP LEVELS EXCEEDANCE)
- S034 CTEH CONFIRMATION SAMPLE LOCATION

REFERENCE(S)

1. AERIAL IMAGE FROM GOOGLE EARTH PRO (AUGUST 2022).

NOTE(S)

1. ALL RESULTS SHOWN ARE IN MILLIGRAMS PER KILOGRAM (MG/KG).
2. **BOLD** INDICATES EXCEEDANCE.

ABBREVIATION(S)

- B = BENZENE
- T = TOLUENE
- E = ETHYLBENZENE
- X = XOLUENE (TOTAL)
- TPH-G = TOTAL PETROLEUM HYDROCARBONS AS GASOLINE

MTCA Method A Cleanup Levels				
B	T	E	X	TPH-G
0.03	7	6	9	30

CLIENT

BP REMEDIATION GROUP

CONSULTANT



DATE

2025-06-19

DESIGNED

DT

PREPARED

APS

REVIEWED

XXX

APPROVED

XXX

PROJECT

OLYMPIC PIPELINE GASOLINE SPILL RESPONSE

TITLE

A-1 VALVE BOX AREA PROPOSED LOCATIONS

PROJECT NO.

US0043610.2851

CONTROL

REV.

FIGURE

9

APPENDIX A

**Soil Excavation and Soil Sampling
Summary OPLC MP 46
Memorandum – Antea Group**

MEMORANDUM

TO: Mr. Wade Melton, Remediation Management Services Company

FROM: Garrett Crowe, Antea Group

CC: Noel Russ, Antea Group
Christopher Meyer, Antea Group

DATE: March 12, 2024

SUBJECT: Soil Excavation and Soil Sampling Summary
OPLC MP 46 Release - Conway, Washington

INTRODUCTION

The purpose of this memorandum is to briefly describe the background and Antea Group's involvement in the source removal excavation process following the gasoline release located at WA-534, Mount Vernon, WA 98274, near pipeline milepost 46, hereafter referred to as the Site. The process included soil screening, sampling protocols, and analytical testing parameters, intended to verify the effectiveness of source removal for the Olympic Pipe Line Company (OPLC) MP 46 release.

Approximately 25,000 gallons of gasoline was released at the Site, originating from the OPLC pipeline block valve containment vault and migrated on the surface downslope through a grassy area and a tree windbreak to the Hill Ditch irrigation canal.

On behalf of U.S. Pipeline (USPL), Antea Group's services were obtained to delineate the extent of the petroleum-contaminated soils (PCS) impacted by the release and collect confirmation soil samples following over-excavation of the area designated during response activities in A-1, depicted in **Figure 1**.

SOIL SAMPLING SUPPORT

From December 14 to 18, 2023, prior to over-excavation activities, Antea Group delineated gasoline impacts in A-1 by installing shallow soil borings and test pits using hand tools, and screening soil samples from these locations using a photoionization detector (PID). The delineation process included 67 staked locations at depths varying from 0 to 18 inches below ground surface (bgs). The environmental consulting firm, CTEH, collected GPS coordinates for each staked location. The field delineation assessment data and exposed soils in sidewalls of the shallow trenches used for water and product removal indicated that the spill pathway is underlain by clay. These soils appeared to have limited the extent of vertical migration of gasoline.

From December 19 to 27, 2023, gasoline impacted soils in the area of A-1 were excavated to limits defined by field PID screening and confirmed by soil sample analytical results from a Washington State Department of Ecology Certified Laboratory. The limits of excavation were based on PID screening levels less than 300 parts per

million (ppm). One soil sample was collected from each sidewall and two representative soil samples were collected from the bottom of the excavation for each 25 linear foot section of excavation to confirm concentrations of petroleum hydrocarbon compounds. Each soil sample for volatile organic analyses was collected in accordance with EPA Sampling Method 5035A using Terracores™ and was submitted to ALS Environmental in Everett, WA for analyses of: Total Petroleum Hydrocarbons (TPH) as gasoline by method NWTPH-Gx; and benzene, toluene, ethylbenzene, and total xylenes (BTEX) by Environmental Protection Agency (EPA) Method 8260. A rush turn-around time of 24 hours was requested from the lab. Laboratory Analytical Reports are included in **Appendix A**. The initial excavated area from the OPLC pipeline valve containment vault to the tree windbreak line, the area of A-1, contained 25 bottom and 31 sidewall soil sample locations. The sidewall samples were collected at 12 and 24 inches bgs. The bottom samples were collected at 24 inches bgs. CTEH conducted air monitoring while soil samples were collected in the excavation pit and collected GPS coordinates for each sample location.

Antea Group compared the soil analytical data collected from soil sampling activities between December 19 and 27, 2023, to Washington State Department of Ecology's (Ecology) Model Toxics Control Act (MTCA) Method A Cleanup Levels. Antea Group determined that additional over-excavation activities would be necessary in certain portions of the area A-1 excavation. From January 5 to 29, 2024, Antea Group provided guidance for areas in need of additional over-excavation. Over-excavation activities included 21 bottom sample locations collected between 30 and 90 inches bgs and 16 sidewall sample locations collected between 12 and 47 inches bgs.

Six confirmatory endpoint soil sample locations, B-21 90" bgs, SW-N-1B 12" bgs, SW-S-1 12" bgs, SW-N-2 24" bgs, SW-E-3 12" and 24" bgs, and SW-E-4C 12" and 36" bgs, contained one or more analytical parameters above MTCA Method A Cleanup Levels. The B-21 and SW-N-2 sample locations both contained slight exceedance for benzene above MTCA Method A Cleanup Levels, 0.047 mg/kg and 0.21 mg/kg respectively, and were subsequently not over-excavated. The SW-E-4C and SW-S-1 sample locations could not be over-excavated due to the proximity of the nearby cathodic protection of the pipeline block valve. The SW-N-1B sample location could not be over excavated due to the proximity of the underground gas lines. The SW-E-3 sample location was a sidewall sample and was over-excavated. Nearby sample locations of B-4, B-17, SW-S-2, and SW-S-9 represent clean bottom and sidewall sample locations in the area of SW-E-3. The remaining confirmation endpoint samples were all below MTCA Method A Cleanup Levels and no further over-excavation was pursued. The excavated PCS was loaded directly into trucks and transported off-site to a licensed waste disposal facility in accordance with all applicable local, state, and federal regulations. Confirmation soil sample locations are depicted in **Figure 1** and soil sample analytical results are summarized in **Table 1**.

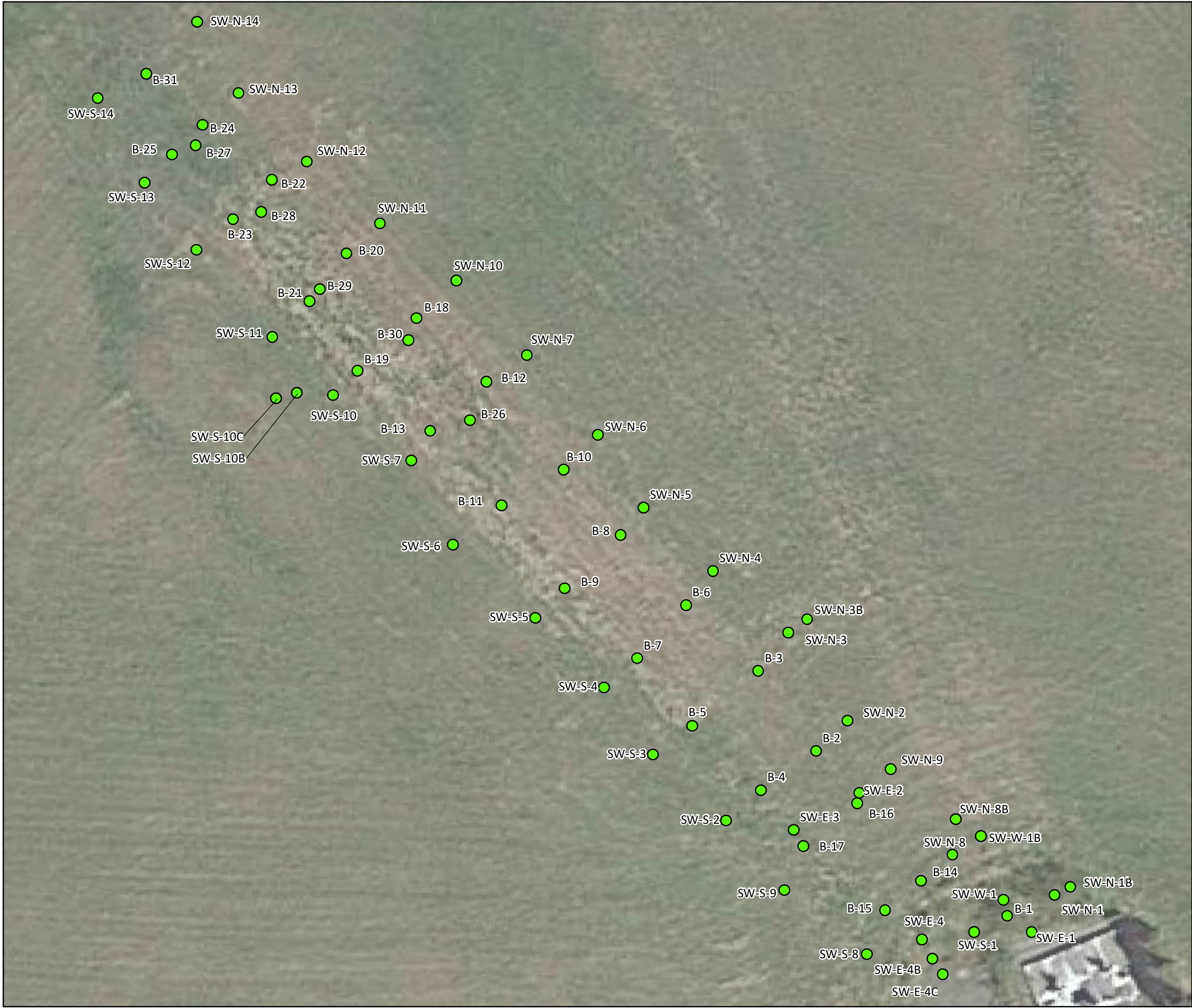
CONTACT INFORMATION

18378-B Redmond Way
Redmond, WA 98025 USA

Toll Free +1 800 477 7411
International +1 651 639 9449

Enclosure: Table 1 – Soil Analytical Table
Figure 1 - Sample Locations
Appendix A - Analytical Lab Reports and Chain-of-Custody Documentation CONWAY

Figure



Legend
● Sample Location

Locations tested for Benzene, Toluene, Ethylbenzene, Xylenes, and Gasoline Range Organics

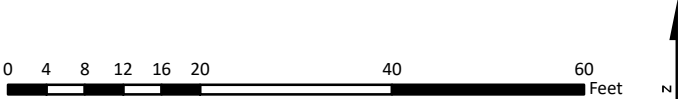


FIGURE 1
SAMPLE LOCATIONS
USPL OLYMPIC MOUNT VERNON RELEASE
MOUNT VERNON, WASHINGTON

PROJECT NO. USPL	PREPARED BY SAA	REF SCALE 1:240	
DATE 2/2/2024	REVIEWED BY MR	MAP SCALE 1 INCH = 20 FEET	

Table

TABLE 1 SOIL ANALYTICAL DATA OPLC MP 46 Release - Conway, Washington							
Sample ID	Date	Sample Depth (in)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (Total) (mg/kg)	Total Petroleum Hydrocarbons as Gasoline (mg/kg)
WA - MTCA Method A Cleanup Levels SOIL			0.03	7	6	9	30
B-1	12/19/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	17
B-2	12/19/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
B-3	12/19/2023	24	0.55	5.2	0.3	1.48	24
B-3	1/29/2024	36	< 0.018	< 0.011	< 0.015	< 0.049	< 3.0
B-4	12/19/2023	24	0.72	3	< 0.01	0.042	12
B-4	1/23/2024	36	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
B-5	12/20/2023	24	0.026	0.055	< 0.01	< 0.03	4.1
B-6	12/20/2023	24	0.04	1.8	0.022	0.112	9.4
B-6	1/19/2024	30	< 0.0050	0.028	< 0.01	0.01	< 3.0
B-7	12/20/2023	24	< 0.0050	0.01	< 0.01	< 0.03	< 3.0
B-8	12/20/2023	24	0.045	2.1	0.043	1.25	12
B-8	1/24/2024	36	< 0.0050	0.013	< 0.01	0.014	< 3.0
B-9	12/20/2023	24	0.06	1.6	< 0.01	< 0.03	6.2
B-9	1/24/2024	36	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
B-10	12/21/2023	24	0.019	0.66	0.1	0.53	7.6
B-11	12/21/2023	24	0.034	3.5	0.016	0.114	21
B-11	1/24/2024	36	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
B-12	12/27/2023	24	2.1 E2	7.7 E2	0.97 E2	2.78 E2	9,200
B-12	1/5/2024	47	0.0073	0.37	0.014	0.079	5.9
B-12	1/10/2024	72	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
B-13	12/27/2023	24	< 0.0050	0.1	< 0.01	0.019	13
B-14	12/21/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
B-15	12/21/2023	24	2.9	27	5.1	28.9	440
B-15	1/23/2024	36	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
B-16	12/21/2023	24	0.0066	0.015	< 0.01	< 0.03	< 3.0
B-17	12/21/2023	24	0.021	2.2	< 0.01	0.062	12
B-18	12/27/2023	24	0.055	0.34	0.035	0.155	20
B-18	1/16/2024	72	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
B-19	12/27/2023	24	1 E2	3.6 E2	0.68 E2	2.27 E2	3,200
B-19	1/5/2024	47	26	860	170	860	10,000
B-19	1/16/2024	84	0.0091	0.046	< 0.01	< 0.03	< 3.0
B-20	12/27/2023	24	10	680 E	140	700	9,000
B-20	1/5/2024	47	3.8	170	46	180	2,700
B-20	1/16/2024	72	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
B-21	12/27/2023	24	11	350	89	460	6,100
B-21	1/16/2024	84	0.053	0.47	0.031	0.152	3.3
B-21	1/19/2024	90	0.047	0.4	< 0.01	< 0.03	< 3.0
B-22	12/27/2023	24	6.7	230 E	51	262	3,600
B-22	1/5/2024	47	5.6	200	46	235	2,600
B-22	1/19/2024	72	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
B-23	12/27/2023	24	0.37	11	0.57	5.4	50
B-23	1/25/2024	36	< 0.038	0.74	0.11	1.75	20
B-24	12/27/2023	24	2.1	85	25	132	2,100
B-24	1/5/2024	47	0.25	19	14	86	1,200
B-24	1/19/2024	72	< 0.0050	0.012	< 0.01	< 0.03	< 3.0
B-25	12/27/2023	24	0.008	0.047	< 0.01	0.018	13
B-26	1/5/2024	47	2.3	130	51	279	3,500
B-26	1/10/2024	72	< 0.0050	0.017	< 0.01	< 0.03	< 3.0
B-27	1/5/2024	47	1.8	31	6.3	35	510
B-27	1/19/2024	72	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
B-28	1/5/2024	47	1.4	26	4	22.3	220
B-28	1/19/2024	72	0.017	0.034	< 0.01	0.035	< 3.0
B-29	1/5/2024	47	25	790	180	940	11,000
B-29	1/16/2024	84	0.028	0.44	0.03	0.138	< 3.0
B-30	1/5/2024	47	9.8	450	100	520	6,100
B-30	1/16/2024	84	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
B-31	1/19/2024	84	0.023	0.052	< 0.01	< 0.03	< 3.0
SW-N-1	12/19/2023	12	1.2	17	1.4	8.3	110
SW-N-1	12/19/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 5.0
SW-N-1B	1/29/2024	12	< 0.019	1.4	0.073	12.8	110
SW-E-1	12/19/2023	12	0.012	0.23	< 0.01	0.021	< 3.0
SW-E-1	12/19/2023	24	0.0085	< 0.01	< 0.01	< 0.03	< 3.0
SW-S-1	12/19/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	54
SW-S-1	12/19/2023	24	0.0062	0.28	0.012	0.067	8.2
SW-W-1	12/19/2023	12	1	1.7	< 0.01	0.041	6.6
SW-W-1B	1/23/2024	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-W-1B	1/23/2024	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-2	12/19/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-2	12/19/2023	24	0.21	1.7	< 0.01	0.011	6.8
SW-E-2	12/19/2023	12	0.022	0.077	< 0.01	< 0.03	< 3.0
SW-E-2	12/19/2023	24	< 0.0050	< 0.01	< 0.01	0.027	< 3.0
SW-S-2	12/19/2023	12	< 0.0050	0.017	< 0.01	< 0.03	< 3.0
SW-S-2	12/19/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-3	12/19/2023	12	0.024	2.5	0.024	0.62	13
SW-N-3	12/19/2023	24	0.23	3	0.17	1.11	17
SW-N-3B	1/29/2024	12	< 0.027	< 0.016	< 0.023	< 0.072	< 3.0
SW-N-3B	1/29/2024	24	< 0.017	< 0.01	< 0.014	< 0.046	< 3.0
SW-E-3	12/19/2023	12	0.0068	3.5	0.39	4.1	44
SW-E-3	12/19/2023	24	0.55	12	2.6	15.4	170
SW-S-3	12/20/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-S-3	12/20/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0

TABLE 1
SOIL ANALYTICAL DATA
OPLC MP 46 Release - Conway, Washington

Sample ID	Date	Sample Depth (in)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (Total) (mg/kg)	Total Petroleum Hydrocarbons as Gasoline (mg/kg)
WA - MTCA Method A Cleanup Levels SOIL			0.03	7	6	9	30
B-1	12/19/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	17
B-2	12/19/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
B-3	12/19/2023	24	0.55	5.2	0.3	1.48	24
B-3	1/29/2024	36	< 0.018	< 0.011	< 0.015	< 0.049	< 3.0
B-4	12/19/2023	24	0.72	3	< 0.01	0.042	12
B-4	1/23/2024	36	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
B-5	12/20/2023	24	0.026	0.055	< 0.01	< 0.03	4.1
B-6	12/20/2023	24	0.04	1.8	0.022	0.112	9.4
B-6	1/19/2024	30	< 0.0050	0.028	< 0.01	0.01	< 3.0
B-7	12/20/2023	24	< 0.0050	0.01	< 0.01	< 0.03	< 3.0
B-8	12/20/2023	24	0.045	2.1	0.043	1.25	12
B-8	1/24/2024	36	< 0.0050	0.013	< 0.01	0.014	< 3.0
SW-N-4	12/20/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-4	12/20/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-E-4	12/27/2023	12	5.4	370 E	83	400 E	5,700
SW-E-4	12/27/2023	24	1.8	110	29	150	1,800
SW-E-4B	1/23/2024	12	0.028	4.4	2.7	34	390
SW-E-4B	1/23/2024	24	0.14	5.2	0.16	3.4	35
SW-E-4C	1/29/2024	12	0.33	18	3.6	33	300
SW-E-4C	1/29/2024	24	< 0.023	0.055	< 0.019	0.154	< 3.0
SW-E-4C	1/29/2024	36	0.24	0.014	0.053	< 0.058	91
SW-S-4	12/20/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-S-4	12/20/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-5	12/20/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-5	12/20/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-S-5	12/20/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-S-5	12/20/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-6	12/21/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-6	12/21/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-S-6	12/21/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-S-6	12/21/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-7	12/27/2023	12	< 0.0050	< 0.01	< 0.01	0.053	10
SW-N-7	12/27/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-7	1/5/2024	36	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-7	1/10/2024	47	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-S-7	12/27/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	6.4
SW-S-7	12/27/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-8	12/21/2023	12	0.77	6.6	0.28	0.9	30
SW-N-8	12/21/2023	24	< 0.0050	0.013	< 0.01	< 0.03	< 3.0
SW-N-8B	1/23/2024	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-S-8	12/21/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-S-8	12/21/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-9	12/21/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-9	12/21/2023	24	0.011	0.49	< 0.01	0.034	< 3.0
SW-S-9	12/21/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-S-9	12/21/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-10	12/27/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-10	12/27/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-10	1/16/2024	47	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-S-10	12/27/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	23
SW-S-10	12/27/2023	24	0.3 E2	0.98 E2	0.68 E2	2.53 E2	460
SW-S-10	1/5/2024	47	< 0.021	0.64	0.16	0.93	13
SW-S-10	1/16/2024	47	< 0.0050	0.018	< 0.01	0.011	< 3.0
SW-S-10B	1/16/2024	24	0.25	7.3	1	5.1	67
SW-S-10C	1/19/2024	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-11	12/27/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-11	12/27/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-11	1/5/2024	47	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-S-11	12/27/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-S-11	12/27/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-12	12/27/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	5.3
SW-N-12	12/27/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-12	1/5/2024	47	< 0.0050	0.02	< 0.01	< 0.03	< 3.0
SW-S-12	12/27/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-S-12	12/27/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-13	12/27/2023	12	< 0.0050	< 0.01	< 0.01	< 0.03	3.9
SW-N-13	12/27/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-13	1/5/2024	47	< 0.0050	0.014	< 0.01	< 0.03	< 3.0
SW-S-13	12/27/2023	12	< 0.0050	0.018	< 0.01	0.043	10
SW-S-13	12/27/2023	24	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-N-14	1/19/2024	47	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0
SW-S-14	1/19/2024	47	< 0.0050	< 0.01	< 0.01	< 0.03	< 3.0

Notes:

Results in bold exceed MTCA action limit

(mg/kg) = milligrams/kilograms

in = Inches

-- = No information

ND = Not detected

< = Not detected at or above indicated laboratory reporting limit

E = Reported result is an estimate because it exceeds the calibration range.

E2 = Reported result is an estimate because it exceeds the calibration range. The actual value for this analyte may be much higher than reported. Resampling and reanalysis is recommended.

Appendix A – Laboratory Analytical Reports



January 30, 2024

Ms. Megan Richard
Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012

Dear Ms. Richard,

On January 29th, 7 samples were received by our laboratory and assigned our laboratory project number EV24010184. The project was identified as your MP-46. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rob Greer
Laboratory Director



CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/30/2024
	18378-B Redmond Way	ALS JOB#:	EV24010184
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010184-01
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/29/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/29/2024 9:50:00 AM
CLIENT SAMPLE ID	B-3_36_20240129	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/30/2024	MNC
Benzene	EPA-8260	U	18	1	UG/KG	01/30/2024	DLC
Toluene	EPA-8260	U	11	1	UG/KG	01/30/2024	DLC
Ethylbenzene	EPA-8260	U	15	1	UG/KG	01/30/2024	DLC
m,p-Xylene	EPA-8260	U	30	1	UG/KG	01/30/2024	DLC
o-Xylene	EPA-8260	U	19	1	UG/KG	01/30/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	71.4	01/30/2024	MNC
Toluene-d8	EPA-8260	101	01/30/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/30/2024
	18378-B Redmond Way	ALS JOB#:	EV24010184
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010184-02
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/29/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/29/2024 10:00:00 AM
CLIENT SAMPLE ID	SW-N-3b-12_20240129	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/30/2024	MNC
Benzene	EPA-8260	U	27	1	UG/KG	01/30/2024	DLC
Toluene	EPA-8260	U	16	1	UG/KG	01/30/2024	DLC
Ethylbenzene	EPA-8260	U	23	1	UG/KG	01/30/2024	DLC
m,p-Xylene	EPA-8260	U	44	1	UG/KG	01/30/2024	DLC
o-Xylene	EPA-8260	U	28	1	UG/KG	01/30/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	81.1	01/30/2024	MNC
Toluene-d8	EPA-8260	102	01/30/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/30/2024
	18378-B Redmond Way	ALS JOB#:	EV24010184
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010184-03
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/29/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/29/2024 10:05:00 AM
CLIENT SAMPLE ID	SW-N-3b-24_20240129	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/30/2024	MNC
Benzene	EPA-8260	U	17	1	UG/KG	01/30/2024	DLC
Toluene	EPA-8260	U	10	1	UG/KG	01/30/2024	DLC
Ethylbenzene	EPA-8260	U	14	1	UG/KG	01/30/2024	DLC
m,p-Xylene	EPA-8260	U	28	1	UG/KG	01/30/2024	DLC
o-Xylene	EPA-8260	U	18	1	UG/KG	01/30/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	87.9	01/30/2024	MNC
Toluene-d8	EPA-8260	101	01/30/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/30/2024
	18378-B Redmond Way	ALS JOB#:	EV24010184
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010184-04
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/29/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/29/2024 10:10:00 AM
CLIENT SAMPLE ID	SW-N-1b-12_20240129	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	110	30	10	MG/KG	01/30/2024	MNC
Benzene	EPA-8260	U	19	1	UG/KG	01/30/2024	DLC
Toluene	EPA-8260	1400	11	1	UG/KG	01/30/2024	DLC
Ethylbenzene	EPA-8260	73	16	1	UG/KG	01/30/2024	DLC
m,p-Xylene	EPA-8260	8500	320	10	UG/KG	01/30/2024	DLC
o-Xylene	EPA-8260	4300	200	10	UG/KG	01/30/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 10X Dilution	NWTPH-GX	79.5	01/30/2024	MNC
Toluene-d8	EPA-8260	109	01/30/2024	DLC
Toluene-d8 10X Dilution	EPA-8260	103	01/30/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/30/2024
	18378-B Redmond Way	ALS JOB#:	EV24010184
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010184-05
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/29/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/29/2024 10:20:00 AM
CLIENT SAMPLE ID	SW-E-4c_12_20240129	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	300	30	10	MG/KG	01/30/2024	MNC
Benzene	EPA-8260	330	18	1	UG/KG	01/30/2024	DLC
Toluene	EPA-8260	18000	110	10	UG/KG	01/30/2024	DLC
Ethylbenzene	EPA-8260	3600	150	10	UG/KG	01/30/2024	DLC
m,p-Xylene	EPA-8260	23000	290	10	UG/KG	01/30/2024	DLC
o-Xylene	EPA-8260	10000	180	10	UG/KG	01/30/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 10X Dilution	NWTPH-GX	107	01/30/2024	MNC
Toluene-d8	EPA-8260	86.9	01/30/2024	DLC
Toluene-d8 10X Dilution	EPA-8260	102	01/30/2024	DLC

Chromatogram indicates that it is likely that sample contains lightly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/30/2024
	18378-B Redmond Way	ALS JOB#:	EV24010184
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010184-06
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/29/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/29/2024 10:25:00 AM
CLIENT SAMPLE ID	SW-E-4c_24	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/30/2024	MNC
Benzene	EPA-8260	U	23	1	UG/KG	01/30/2024	DLC
Toluene	EPA-8260	55	14	1	UG/KG	01/30/2024	DLC
Ethylbenzene	EPA-8260	U	19	1	UG/KG	01/30/2024	DLC
m,p-Xylene	EPA-8260	110	38	1	UG/KG	01/30/2024	DLC
o-Xylene	EPA-8260	44	24	1	UG/KG	01/30/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	78.8	01/30/2024	MNC
Toluene-d8	EPA-8260	101	01/30/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/30/2024
	18378-B Redmond Way	ALS JOB#:	EV24010184
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010184-07
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/29/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/29/2024 10:30:00 AM
CLIENT SAMPLE ID	SW-E-4c_36_20240129	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	91	3.0	1	MG/KG	01/30/2024	MNC
Benzene	EPA-8260	240	22	1	UG/KG	01/30/2024	DLC
Toluene	EPA-8260	14	13	1	UG/KG	01/30/2024	DLC
Ethylbenzene	EPA-8260	53	18	1	UG/KG	01/30/2024	DLC
m,p-Xylene	EPA-8260	U	36	1	UG/KG	01/30/2024	DLC
o-Xylene	EPA-8260	U	22	1	UG/KG	01/30/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	85.5	01/30/2024	MNC
Toluene-d8	EPA-8260	95.7	01/30/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
 Chromatogram indicates that it is likely that sample contains weathered gasoline.
 Gasoline range product results biased high due to semivolatile range product overlap.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/30/2024
	18378-B Redmond Way	ALS SDG#:	EV24010184
	Redmond, WA 98052-5012	WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Megan Richard		
CLIENT PROJECT:	MP-46		

LABORATORY BLANK RESULTS
MBG-012924S - Batch 206680 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	MG/KG	3.0	01/29/2024	MNC

U - Analyte analyzed for but not detected at level above reporting limit.

MB-012924S2 - Batch 206698 - Soil by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8260	U	UG/KG	5.0	01/29/2024	DLC
Toluene	EPA-8260	U	UG/KG	10	01/29/2024	DLC
Ethylbenzene	EPA-8260	U	UG/KG	10	01/29/2024	DLC
m,p-Xylene	EPA-8260	U	UG/KG	20	01/29/2024	DLC
o-Xylene	EPA-8260	U	UG/KG	10	01/29/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/30/2024
	18378-B Redmond Way	ALS SDG#:	EV24010184
	Redmond, WA 98052-5012	WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Megan Richard		
CLIENT PROJECT:	MP-46		

LABORATORY CONTROL SAMPLE RESULTS
ALS Test Batch ID: 206680 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
TPH-Volatile Range - BS	NWTPH-GX	89.9			66.5	122.7	01/30/2024	MNC
TPH-Volatile Range - BSD	NWTPH-GX	96.6	7		66.5	122.7	01/30/2024	MNC

ALS Test Batch ID: 206698 - Soil by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Benzene - BS	EPA-8260	96.3			75	138	01/29/2024	DLC
Benzene - BSD	EPA-8260	101	5		75	138	01/29/2024	DLC
Toluene - BS	EPA-8260	98.0			71.6	122.1	01/29/2024	DLC
Toluene - BSD	EPA-8260	103	5		71.6	122.1	01/29/2024	DLC
Ethylbenzene - BS	EPA-8260	95.4			50	150	01/29/2024	DLC
Ethylbenzene - BSD	EPA-8260	101	6		50	150	01/29/2024	DLC
m,p-Xylene - BS	EPA-8260	95.1			50	150	01/29/2024	DLC
m,p-Xylene - BSD	EPA-8260	101	6		50	150	01/29/2024	DLC
o-Xylene - BS	EPA-8260	95.3			50	150	01/29/2024	DLC
o-Xylene - BSD	EPA-8260	100	5		50	150	01/29/2024	DLC

APPROVED BY



Rob Greer
Laboratory Director



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http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only)

EV24010184

Date 1/29/24 Page 1 Of 1

PROJECT ID: MP-46					ANALYSIS REQUESTED															OTHER (Specify)								
REPORT TO COMPANY: Antea Group					NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA 8021	MTBE by EPA 8021	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM	PCB by EPA 8082	Pesticides by EPA 8081	TAL	RCRA-8	Pri Pol	Metals Other (Specify)	TCLP-Metals	VOA	Semi-Vol	Pest	Herbs	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
PROJECT MANAGER: Megan Richard																												
ADDRESS: 18378-B Redmond Way																												
Redmond, WA																												
PHONE: 206-854-0399 P.O. #:																												
E-MAIL: Megan.Richard@anteagroup.us																												
INVOICE TO COMPANY: Same as above																												
ATTENTION: Digital Solutions, Equis, Antea Group, US																												
ADDRESS: Same as above																												
SAMPLE I.D.	DATE	TIME	TYPE	LAB#																								
1. B-3-36-20240129	1/29/24	9:50	Soil	1			X	X																				
2. SW-N-36-12-20240129	1/29/24	10:00	Soil	2			X	X																				
3. SW-N-36-24-20240129	1/29/24	10:05	Soil	3			X	X																				
4. SW-N-16-12-20240129	1/29/24	10:10	Soil	4			X	X																				
5. SW-E-4c-12-20240129	1/29/24	10:20	Soil	5			X	X																				
6. SW-E-4c-24	1/29/24	10:25	Soil	6			X	X																				
7. SW-E-4c-36-20240129	1/29/24	10:30	Soil	7			X	X																				
8.																												
9.																												
10.																												

SPECIAL INSTRUCTIONS Sample #4 is "one B" 16, NOT "16"

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Mariah Murphy Antea Group 12:15 1/29/24

Received By: ALSE 1/29/24 1220

2. Relinquished By:

Received By:

TURNAROUND REQUESTED in Business Days*
Organic, Metals & Inorganic Analysis

10 5 3 2 1 SAME DAY

Fuels & Hydrocarbon Analysis

5 3 1 SAME DAY

OTHER: Specify: 24 HR TAT

*Turnaround request less than standard may incur Rush Charges

ALS ENVIRONMENTAL

Sample Receiving Checklist

Client: Antea Group ALS Job#: EV24010184

Project: MP-46

Login Date: 1/29/24 Login Time: 1220 Login By: CE

Type of Shipping Container: Cooler ☒ Box ☐ Other ☐

Shipped via: FedEx Ground ☐ UPS ☐ Courier ☐ Hand Delivered ☒ ALS Courier ☐
FedEx Express ☐

Yes No N/A

Were custody seals on outside of shipping container? ☐ ☐ ☒
If yes, how many? Where?
Custody seal date: Seal name:

Was Chain of Custody properly filled out (ink, signed, dated, etc.)? ☒ ☐ ☐

Did all bottles have labels? ☒ ☐ ☐

Did all bottle labels and tags agree with Chain of Custody? ☒ ☐ ☐

Were samples received within hold time? ☒ ☐ ☐

Did all bottles arrive in good condition (unbroken, etc.)? ☒ ☐ ☐

Was sufficient amount of sample sent for the tests indicated? ☒ ☐ ☐

Was correct preservation added to samples? ☒ ☐ ☐

Subcontract test containers added to Subcontract Bin? ☐ ☐ ☒

Wetchem test containers marked with required Tests? ☐ ☐ ☒

Short hold time test containers delivered to analysts? ☐ ☐ ☒

Were VOA vials checked for absence of air bubbles? ☐ ☐ ☒

Bubbles present in sample #:

5035A kits received? MC # Low Kits: # High Kits: 7 ☒ ☐ ☐
sodium bisulfates

5035A kits returned? # Low Kits: # High Kits:

Temperature of cooler upon receipt: 12.9°C On ice? ☒ ☐ ☐

Explain any discrepancies: trip blank not added to chain. Received 1. labelled Sample #8

Was client contacted? Who was called? By whom? Date:

Outcome of call:



January 25, 2024

Ms. Megan Richard
Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012

Dear Ms. Richard,

On January 24th, 3 samples were received by our laboratory and assigned our laboratory project number EV24010144. The project was identified as your MP-46. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rob Greer
Laboratory Director

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/25/2024
	18378-B Redmond Way	ALS JOB#:	EV24010144
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010144-01
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/24/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/24/2024 12:20:00 PM
CLIENT SAMPLE ID	B-8_36_20240124	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/25/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/25/2024	DLC
Toluene	EPA-8260	13	10	1	UG/KG	01/25/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/25/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/25/2024	DLC
o-Xylene	EPA-8260	14	10	1	UG/KG	01/25/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	70.9	01/25/2024	MNC
Toluene-d8	EPA-8260	100	01/25/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/25/2024
	18378-B Redmond Way	ALS JOB#:	EV24010144
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010144-02
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/24/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/24/2024 12:09:00 PM
CLIENT SAMPLE ID	B-9_36_20240124	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/25/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/25/2024	DLC
Toluene	EPA-8260	U	10	1	UG/KG	01/25/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/25/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/25/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/25/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	65.6	01/25/2024	MNC
Toluene-d8	EPA-8260	101	01/25/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/25/2024
	18378-B Redmond Way	ALS JOB#:	EV24010144
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010144-03
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/24/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/24/2024 12:00:00 PM
CLIENT SAMPLE ID	B-11_36_20240124	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/25/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/25/2024	DLC
Toluene	EPA-8260	U	10	1	UG/KG	01/25/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/25/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/25/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/25/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	76.1	01/25/2024	MNC
Toluene-d8	EPA-8260	100	01/25/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/25/2024
	18378-B Redmond Way	ALS SDG#:	EV24010144
	Redmond, WA 98052-5012	WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Megan Richard		
CLIENT PROJECT:	MP-46		

LABORATORY BLANK RESULTS
MBG-012524S - Batch 206473 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	MG/KG	3.0	01/25/2024	MNC

U - Analyte analyzed for but not detected at level above reporting limit.

MB-012524S - Batch 206462 - Soil by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8260	U	UG/KG	5.0	01/25/2024	DLC
Toluene	EPA-8260	U	UG/KG	10	01/25/2024	DLC
Ethylbenzene	EPA-8260	U	UG/KG	10	01/25/2024	DLC
m,p-Xylene	EPA-8260	U	UG/KG	20	01/25/2024	DLC
o-Xylene	EPA-8260	U	UG/KG	10	01/25/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/25/2024
	18378-B Redmond Way	ALS SDG#:	EV24010144
	Redmond, WA 98052-5012	WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Megan Richard		
CLIENT PROJECT:	MP-46		

LABORATORY CONTROL SAMPLE RESULTS
ALS Test Batch ID: 206473 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
TPH-Volatile Range - BS	NWTPH-GX	106			66.5	122.7	01/25/2024	MNC
TPH-Volatile Range - BSD	NWTPH-GX	105	1		66.5	122.7	01/25/2024	MNC

ALS Test Batch ID: 206462 - Soil by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Benzene - BS	EPA-8260	90.3			75	138	01/25/2024	DLC
Benzene - BSD	EPA-8260	89.6	1		75	138	01/25/2024	DLC
Toluene - BS	EPA-8260	92.2			71.6	122.1	01/25/2024	DLC
Toluene - BSD	EPA-8260	91.2	1		71.6	122.1	01/25/2024	DLC
Ethylbenzene - BS	EPA-8260	91.6			50	150	01/25/2024	DLC
Ethylbenzene - BSD	EPA-8260	91.0	1		50	150	01/25/2024	DLC
m,p-Xylene - BS	EPA-8260	91.2			50	150	01/25/2024	DLC
m,p-Xylene - BSD	EPA-8260	90.7	1		50	150	01/25/2024	DLC
o-Xylene - BS	EPA-8260	92.3			50	150	01/25/2024	DLC
o-Xylene - BSD	EPA-8260	92.8	1		50	150	01/25/2024	DLC

APPROVED BY



Rob Greer
Laboratory Director



ALS Environmental
8620 Holly Drive, Suite 100
Everett, WA 98208
Phone (425) 356-2600
Fax (425) 356-2626
http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only)

EV24010144

Date _____ Page _____ Of _____

PROJECT ID: <u>MP-46</u>					ANALYSIS REQUESTED														OTHER (Specify)								
REPORT TO COMPANY: <u>Antea Group</u>					NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTX by EPA 8021	MTBE by EPA 8021	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM	PCB by EPA 8082	Pesticides by EPA 8081	TAL	RCRA-8	Pri Pol	Metals Other (Specify)	TCAP-Metals	VOA	Semi-Vol	Pest	Herbs	NUMBER OF CONTAINERS RECEIVED IN GOOD CONDITION?
PROJECT MANAGER: <u>Megan Richard</u>																											
ADDRESS: <u>18378-B Redmond Way</u>																											
<u>Redmond, WA</u>																											
PHONE: <u>206, 854, 0399</u> P.O. #:																											
E-MAIL: <u>Megan.richard@anteagroup.us</u>																											
INVOICE TO COMPANY: <u>same as above</u>																											
ATTENTION: <u>Digital Solutions, ED@S@anteagroup.us</u>																											
ADDRESS: <u>same as above</u>																											
SAMPLE I.D.	DATE	TIME	TYPE	LAB#																							
1. <u>B-8-36-20240124</u>	<u>1/24/24</u>	<u>1220</u>	<u>S</u>	<u>1</u>			X	X																			
2. <u>B-9-36-20240124</u>	<u>1/24/24</u>	<u>1209</u>	<u>S</u>	<u>2</u>			X	X																			
3. <u>B-11-36-20240124</u>	<u>1/24/24</u>	<u>1200</u>	<u>S</u>	<u>3</u>			X	X																			
4.																											
5.																											
6.																											
7.																											
8.																											
9.																											
10.																											

SPECIAL INSTRUCTIONS

★ HOLD ALL 3 Samples ★ 1/25/24 - Ezra removed hold on all samples. S

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Ezra Coyne, Antea Group, 1/24/24, 1415
Received By: ALS 1/24/24 1415

2. Relinquished By: _____
Received By: _____

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis

10 5 3 2 1 SAME DAY

Fuels & Hydrocarbon Analysis

5 3 1 SAME DAY

OTHER:

Specify: _____

*Turnaround request less than standard may incur Rush Charges

ALS ENVIRONMENTAL

Sample Receiving Checklist

Client: Antea ALS Job#: EV24010144

Project: MP-46

Login Date: 1/24/24 Login Time: 1415 Login By: ce

Type of Shipping Container: Cooler ☒ Box ☐ Other ☐

Shipped via: FedEx Ground ☐ UPS ☐ Courier ☐ Hand Delivered ☒ ALS Courier ☐
FedEx Express ☐

	Yes	No	N/A
Were custody seals on outside of shipping container?	☐	☐	☒
If yes, how many? <u> </u> Where? <u> </u>			
Custody seal date: <u> </u> Seal name: <u> </u>			
Was Chain of Custody properly filled out (ink, signed, dated, etc.)?	☒	☐	☐
Did all bottles have labels?	☒	☐	☐
Did all bottle labels and tags agree with Chain of Custody?	☒	☐	☐
Were samples received within hold time?	☒	☐	☐
Did all bottles arrive in good condition (unbroken, etc.)?	☒	☐	☐
Was sufficient amount of sample sent for the tests indicated?	☒	☐	☐
Was correct preservation added to samples?	☒	☐	☐
Subcontract test containers added to Subcontract Bin?	☐	☐	☒
Wetchem test containers marked with required Tests?	☐	☐	☒
Short hold time test containers delivered to analysts?	☐	☐	☒
Were VOA vials checked for absence of air bubbles?	☐	☐	☒
Bubbles present in sample #: <u> </u>			

5035A kits received? 3 # Low Kits: 3 # High Kits: 17 ^{cc} ☒

5035A kits returned? Sodium # Low Kits: # High Kits:

Temperature of cooler upon receipt: 12.9° On ice? ☒

Explain any discrepancies: Samples on Hold

Was client contacted? Who was called? By whom? Date:

Outcome of call:



January 24, 2024

Ms. Megan Richard
Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012

Dear Ms. Richard,

On January 23rd, 8 samples were received by our laboratory and assigned our laboratory project number EV24010127. The project was identified as your MP-46. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rob Greer
Laboratory Director

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/24/2024
	18378-B Redmond Way	ALS JOB#:	EV24010127
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010127-01
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/23/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/23/2024 2:58:00 PM
CLIENT SAMPLE ID	B-4_36_20240123	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/24/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/24/2024	DLC
Toluene	EPA-8260	U	10	1	UG/KG	01/24/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/24/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/24/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/24/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	95.0	01/24/2024	MNC
Toluene-d8	EPA-8260	100	01/24/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/24/2024
	18378-B Redmond Way	ALS JOB#:	EV24010127
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010127-02
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/23/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/23/2024 2:52:00 PM
CLIENT SAMPLE ID	B-15_36_20240123	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/24/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/24/2024	DLC
Toluene	EPA-8260	U	10	1	UG/KG	01/24/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/24/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/24/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/24/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	78.0	01/24/2024	MNC
Toluene-d8	EPA-8260	100	01/24/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/24/2024
	18378-B Redmond Way	ALS JOB#:	EV24010127
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010127-03
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/23/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/23/2024 2:45:00 PM
CLIENT SAMPLE ID	SW-E-4b_12_20240123	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	390	30	10	MG/KG	01/24/2024	MNC
Benzene	EPA-8260	28	22	1	UG/KG	01/24/2024	DLC
Toluene	EPA-8260	4400	130	10	UG/KG	01/24/2024	DLC
Ethylbenzene	EPA-8260	2700	19	1	UG/KG	01/24/2024	DLC
m,p-Xylene	EPA-8260	22000	370	10	UG/KG	01/24/2024	DLC
o-Xylene	EPA-8260	12000	230	10	UG/KG	01/24/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 10X Dilution	NWTPH-GX	47.9 SUR12	01/24/2024	MNC
Toluene-d8 10X Dilution	EPA-8260	101	01/24/2024	DLC
Toluene-d8	EPA-8260	95.9	01/24/2024	DLC

SUR12 -Surrogate recoveries were outside of the control limits due to matrix interference. Chromatogram indicates that it is likely that sample contains weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/24/2024
	18378-B Redmond Way	ALS JOB#:	EV24010127
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010127-04
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/23/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/23/2024 2:48:00 PM
CLIENT SAMPLE ID	SW-E-4b_24_20240123	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	35	3.0	1	MG/KG	01/24/2024	MNC
Benzene	EPA-8260	140	23	1	UG/KG	01/24/2024	DLC
Toluene	EPA-8260	5200	140	10	UG/KG	01/24/2024	DLC
Ethylbenzene	EPA-8260	160	19	1	UG/KG	01/24/2024	DLC
m,p-Xylene	EPA-8260	1800	38	1	UG/KG	01/24/2024	DLC
o-Xylene	EPA-8260	1600	24	1	UG/KG	01/24/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	99.7	01/24/2024	MNC
Toluene-d8	EPA-8260	103	01/24/2024	DLC
Toluene-d8 10X Dilution	EPA-8260	102	01/24/2024	DLC

Chromatogram indicates that it is likely that sample contains weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/24/2024
	18378-B Redmond Way	ALS JOB#:	EV24010127
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010127-05
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/23/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/23/2024 2:33:00 PM
CLIENT SAMPLE ID	SW-W-1b_12_20240123	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/24/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/24/2024	DLC
Toluene	EPA-8260	U	10	1	UG/KG	01/24/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/24/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/24/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/24/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	81.8	01/24/2024	MNC
Toluene-d8	EPA-8260	102	01/24/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/24/2024
	18378-B Redmond Way	ALS JOB#:	EV24010127
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010127-06
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/23/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/23/2024 2:35:00 PM
CLIENT SAMPLE ID	SW-W-1b_24_20240123	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/24/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/24/2024	DLC
Toluene	EPA-8260	U	10	1	UG/KG	01/24/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/24/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/24/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/24/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	85.8	01/24/2024	MNC
Toluene-d8	EPA-8260	108	01/24/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/24/2024
	18378-B Redmond Way	ALS JOB#:	EV24010127
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010127-07
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/23/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/23/2024 2:25:00 PM
CLIENT SAMPLE ID	SW-N-8b_12_20240123	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/24/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/24/2024	DLC
Toluene	EPA-8260	U	10	1	UG/KG	01/24/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/24/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/24/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/24/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	79.9	01/24/2024	MNC
Toluene-d8	EPA-8260	105	01/24/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group 18378-B Redmond Way Redmond, WA 98052-5012	DATE: 1/24/2024	ALS SDG#: EV24010127
CLIENT CONTACT:	Megan Richard	WDOE ACCREDITATION:	C601
CLIENT PROJECT:	MP-46		

LABORATORY BLANK RESULTS

MBG-012324S2 - Batch 206378 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	MG/KG	3.0	01/24/2024	MNC

U - Analyte analyzed for but not detected at level above reporting limit.

MB-012424S - Batch 206406 - Soil by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8260	U	UG/KG	5.0	01/24/2024	DLC
Toluene	EPA-8260	U	UG/KG	10	01/24/2024	DLC
Ethylbenzene	EPA-8260	U	UG/KG	10	01/24/2024	DLC
m,p-Xylene	EPA-8260	U	UG/KG	20	01/24/2024	DLC
o-Xylene	EPA-8260	U	UG/KG	10	01/24/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/24/2024
	18378-B Redmond Way	ALS SDG#:	EV24010127
	Redmond, WA 98052-5012	WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Megan Richard		
CLIENT PROJECT:	MP-46		

LABORATORY CONTROL SAMPLE RESULTS
ALS Test Batch ID: 206378 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
TPH-Volatile Range - BS	NWTPH-GX	99.4			66.5	122.7	01/24/2024	MNC
TPH-Volatile Range - BSD	NWTPH-GX	98.7	1		66.5	122.7	01/24/2024	MNC

ALS Test Batch ID: 206406 - Soil by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Benzene - BS	EPA-8260	92.4			75	138	01/24/2024	DLC
Benzene - BSD	EPA-8260	89.3	4		75	138	01/24/2024	DLC
Toluene - BS	EPA-8260	94.6			71.6	122.1	01/24/2024	DLC
Toluene - BSD	EPA-8260	91.1	4		71.6	122.1	01/24/2024	DLC
Ethylbenzene - BS	EPA-8260	97.4			50	150	01/24/2024	DLC
Ethylbenzene - BSD	EPA-8260	91.8	6		50	150	01/24/2024	DLC
m,p-Xylene - BS	EPA-8260	95.2			50	150	01/24/2024	DLC
m,p-Xylene - BSD	EPA-8260	90.8	5		50	150	01/24/2024	DLC
o-Xylene - BS	EPA-8260	97.5			50	150	01/24/2024	DLC
o-Xylene - BSD	EPA-8260	92.9	5		50	150	01/24/2024	DLC

APPROVED BY



Rob Greer
Laboratory Director



ALS Job# (Laboratory Use Only)

EV24010127

Date 1/23/24 Page 1 Of 1

[illegible]

SPECIAL INSTRUCTIONS

★ PLEASE HOLD SW-N-86-24-20240123 ★

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Josh Nugent / Antea / 1/23/24 / 1705

Received By: [Signature] ACS 11/23/24 1705

2. Relinquished By:

Received By: _____

TURNAROUND REQUESTED in Business Days*

OTHER:

Organic, Metals & Inorganic Analysis

10 5 3 2 1 SAM
DAY

Fuels & Hydrocarbon Analysis

5 3 1 SAN
DAY

Specify: _____

*Turnaround request less than standard may incur Rush Charges

ALS ENVIRONMENTAL

Sample Receiving Checklist

Client: AUTEA GROUP ALS Job#: EV24010127

Project: MP-46

Login Date: 1/23/24 Login Time: 1710 Login By: CN/AF

Type of Shipping Container: Cooler ☒ Box ☐ Other ☐

Shipped via: FedEx Ground ☐ UPS ☐ Courier ☐ Hand Delivered ☒ ALS Courier ☐
FedEx Express ☐

	Yes	No	N/A
Were custody seals on outside of shipping container?			☒
If yes, how many? _____ Where? _____			
Custody seal date: _____ Seal name: _____			
Was Chain of Custody properly filled out (ink, signed, dated, etc.)?	☒		
Did all bottles have labels?	☒		
Did all bottle labels and tags agree with Chain of Custody?	☒		
Were samples received within hold time?	☒		
Did all bottles arrive in good condition (unbroken, etc.)?	☒		
Was sufficient amount of sample sent for the tests indicated?	☒		
Was correct preservation added to samples?	☒		
Subcontract test containers added to Subcontract Bin?			☒
Wetchem test containers marked with required Tests?			☒
Short hold time test containers delivered to analysts?			☒
Were VOA vials checked for absence of air bubbles?			☒
Bubbles present in sample #: _____			

5035A kits received? 8 # Low Kits: 8 # High Kits: _____

5035A kits returned? 2 # Low Kits: 2 # High Kits: 5

Temperature of cooler upon receipt: 5.4 On ice? ☒

Explain any discrepancies:

Was client contacted? _____ Who was called? _____ By whom? _____ Date: _____

Outcome of call:



January 22, 2024

Ms. Megan Richard
Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012

Dear Ms. Richard,

On January 19th, 10 samples were received by our laboratory and assigned our laboratory project number EV24010111. The project was identified as your MP-46. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rob Greer
Laboratory Director

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/22/2024
	18378-B Redmond Way	ALS JOB#:	EV24010111
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010111-01
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/19/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/19/2024 1:15:00 PM
CLIENT SAMPLE ID	B-22_72_20240119	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/22/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/22/2024	DLC
Toluene	EPA-8260	U	10	1	UG/KG	01/22/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/22/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/22/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/22/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	95.1	01/22/2024	MNC
Toluene-d8	EPA-8260	100	01/22/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/22/2024
	18378-B Redmond Way	ALS JOB#:	EV24010111
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010111-02
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/19/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/19/2024 1:15:00 PM
CLIENT SAMPLE ID	B-24_72_20240119	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/22/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/22/2024	DLC
Toluene	EPA-8260	12	10	1	UG/KG	01/22/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/22/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/22/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/22/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	80.7	01/22/2024	MNC
Toluene-d8	EPA-8260	100	01/22/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/22/2024
	18378-B Redmond Way	ALS JOB#:	EV24010111
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010111-03
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/19/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/19/2024 1:55:00 PM
CLIENT SAMPLE ID	B-27_72_20240119	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/22/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/22/2024	DLC
Toluene	EPA-8260	U	10	1	UG/KG	01/22/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/22/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/22/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/22/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	72.6	01/22/2024	MNC
Toluene-d8	EPA-8260	99.4	01/22/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/22/2024
	18378-B Redmond Way	ALS JOB#:	EV24010111
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010111-04
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/19/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/19/2024 2:00:00 PM
CLIENT SAMPLE ID	B-28_72_20240119	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/22/2024	MNC
Benzene	EPA-8260	17	5.0	1	UG/KG	01/22/2024	DLC
Toluene	EPA-8260	34	10	1	UG/KG	01/22/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/22/2024	DLC
m,p-Xylene	EPA-8260	24	20	1	UG/KG	01/22/2024	DLC
o-Xylene	EPA-8260	11	10	1	UG/KG	01/22/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	87.3	01/22/2024	MNC
Toluene-d8	EPA-8260	100	01/22/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/22/2024
	18378-B Redmond Way	ALS JOB#:	EV24010111
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010111-05
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/19/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/19/2024 2:40:00 PM
CLIENT SAMPLE ID	B-6_30_20240119	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/22/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/22/2024	DLC
Toluene	EPA-8260	28	10	1	UG/KG	01/22/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/22/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/22/2024	DLC
o-Xylene	EPA-8260	10	10	1	UG/KG	01/22/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	95.6	01/22/2024	MNC
Toluene-d8	EPA-8260	98.8	01/22/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/22/2024
	18378-B Redmond Way	ALS JOB#:	EV24010111
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010111-06
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/19/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/19/2024 2:30:00 PM
CLIENT SAMPLE ID	SW-S-10C_24_20240119	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/22/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/22/2024	DLC
Toluene	EPA-8260	U	10	1	UG/KG	01/22/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/22/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/22/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/22/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	99.4	01/22/2024	MNC
Toluene-d8	EPA-8260	99.6	01/22/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/22/2024
	18378-B Redmond Way	ALS JOB#:	EV24010111
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010111-07
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/19/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/19/2024 3:00:00 PM
CLIENT SAMPLE ID	B-21_90_20240119	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/22/2024	MNC
Benzene	EPA-8260	47	5.0	1	UG/KG	01/22/2024	DLC
Toluene	EPA-8260	400	15	1	UG/KG	01/22/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/22/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/22/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/22/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	81.7	01/22/2024	MNC
Toluene-d8	EPA-8260	99.6	01/22/2024	DLC
Toluene-d8	EPA-8260	101	01/22/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/22/2024
	18378-B Redmond Way	ALS JOB#:	EV24010111
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010111-08
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/19/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/19/2024 4:30:00 PM
CLIENT SAMPLE ID	SW-N-14_47_20240119	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/22/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/22/2024	DLC
Toluene	EPA-8260	U	10	1	UG/KG	01/22/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/22/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/22/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/22/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	84.1	01/22/2024	MNC
Toluene-d8	EPA-8260	99.5	01/22/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/22/2024
	18378-B Redmond Way	ALS JOB#:	EV24010111
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010111-09
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/19/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/19/2024 4:30:00 PM
CLIENT SAMPLE ID	SW-S-14_47_20240119	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/22/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/22/2024	DLC
Toluene	EPA-8260	U	10	1	UG/KG	01/22/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/22/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/22/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/22/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	90.9	01/22/2024	MNC
Toluene-d8	EPA-8260	100	01/22/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/22/2024
	18378-B Redmond Way	ALS JOB#:	EV24010111
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010111-10
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/19/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/19/2024 4:30:00 PM
CLIENT SAMPLE ID	B-31_84_20240119	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/22/2024	MNC
Benzene	EPA-8260	23	5.0	1	UG/KG	01/22/2024	DLC
Toluene	EPA-8260	52	10	1	UG/KG	01/22/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/22/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/22/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/22/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	83.8	01/22/2024	MNC
Toluene-d8	EPA-8260	100	01/22/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT: Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012
DATE: 1/22/2024
ALS SDG#: EV24010111
WDOE ACCREDITATION: C601
CLIENT CONTACT: Megan Richard
CLIENT PROJECT: MP-46

LABORATORY BLANK RESULTS

MBG-012124S - Batch 206274 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	MG/KG	3.0	01/21/2024	MNC

U - Analyte analyzed for but not detected at level above reporting limit.

MB-012224S - Batch 206275 - Soil by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8260	U	UG/KG	5.0	01/22/2024	DLC
Toluene	EPA-8260	U	UG/KG	10	01/22/2024	DLC
Ethylbenzene	EPA-8260	U	UG/KG	10	01/22/2024	DLC
m,p-Xylene	EPA-8260	U	UG/KG	20	01/22/2024	DLC
o-Xylene	EPA-8260	U	UG/KG	10	01/22/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/22/2024
	18378-B Redmond Way	ALS SDG#:	EV24010111
	Redmond, WA 98052-5012	WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Megan Richard		
CLIENT PROJECT:	MP-46		

LABORATORY CONTROL SAMPLE RESULTS
ALS Test Batch ID: 206274 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
TPH-Volatile Range - BS	NWTPH-GX	93.4			66.5	122.7	01/21/2024	MNC
TPH-Volatile Range - BSD	NWTPH-GX	100	7		66.5	122.7	01/22/2024	MNC

ALS Test Batch ID: 206275 - Soil by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Benzene - BS	EPA-8260	95.8			75	138	01/22/2024	DLC
Benzene - BSD	EPA-8260	87.1	10		75	138	01/22/2024	DLC
Toluene - BS	EPA-8260	98.0			71.6	122.1	01/22/2024	DLC
Toluene - BSD	EPA-8260	89.0	10		71.6	122.1	01/22/2024	DLC
Ethylbenzene - BS	EPA-8260	97.6			50	150	01/22/2024	DLC
Ethylbenzene - BSD	EPA-8260	90.9	7		50	150	01/22/2024	DLC
m,p-Xylene - BS	EPA-8260	95.8			50	150	01/22/2024	DLC
m,p-Xylene - BSD	EPA-8260	89.5	7		50	150	01/22/2024	DLC
o-Xylene - BS	EPA-8260	98.0			50	150	01/22/2024	DLC
o-Xylene - BSD	EPA-8260	91.9	6		50	150	01/22/2024	DLC

APPROVED BY



Rob Greer
Laboratory Director



ALS Environmental
8620 Holly Drive, Suite 100
Everett, WA 98208
Phone (425) 356-2600
Fax (425) 356-2626
http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only)

EV24010111

Date 1/19/24 Page 1 Of 1

PROJECT ID: <u>MA-46</u>					ANALYSIS REQUESTED															OTHER (Specify)								
REPORT TO COMPANY: <u>Antea Group</u>					NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA 8021	MTBE by EPA 8021	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM	PCB by EPA 8082	Pesticides by EPA 8081	TAL	RCRA-8	Pri Pol	Metals Other (Specify)	VOA	Semi-Vol	Pest	Herbs	TCPLP-Metals	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
PROJECT MANAGER: <u>Megan Richard</u>																												
ADDRESS: <u>18378-B Redmond way</u>																												
Redmond WA																												
PHONE: <u>206-854-0399</u> P.O. #:																												
E-MAIL: <u>Megan.Richard@anteagroup.us</u>																												
INVOICE TO COMPANY: <u>Same as above</u>																												
ATTENTION: <u>Digital Solutions, Equis@anteagroup.us</u>																												
ADDRESS: <u>Same as above</u>																												
SAMPLE I.D.	DATE	TIME	TYPE	LAB#																								
1. B-22-72-20240119	1/19/24	1315	Soil	1			X	X																				
2. B-24-72-20240119		1315		2			X	X																				
3. B-27-72-20240119		1355		3			X	X																				
4. B-28-72-20240119		1400		4			X	X																				
5. B-6-30-20240119		1440		5			X	X																				
6. SW-5-10C-24-20240119		1430		6			X	X																				
7. B-21-70-20240119		1500		7			X	X																				
8. SW-N-14-47-20240119		1630		8			X	X																				
9. SW-5-14-47-20240119		1630		9			X	X																				
10. B-31-84-20240119		1630		10			X	X																				

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Pennis Lindelof Antea, 01/19/24, 17:52

Received By: ARS 1/19/24 1752

2. Relinquished By: _____

Received By: _____

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis

10 5 3 2 1 SAME DAY

Fuels & Hydrocarbon Analysis

5 3 1 SAME DAY

OTHER:

Specify: _____

24 hr

*Turnaround request less than standard may incur Rush Charges

ALS ENVIRONMENTAL

Sample Receiving Checklist

Client: Antea ALS Job#: EV24010111

Project: MP-46

Login Date: 1/19/24 Login Time: 1752 Login By: CCP

Type of Shipping Container: Cooler ☒ Box ☐ Other ☐

Shipped via: FedEx Ground ☐ UPS ☐ Courier ☐ Hand Delivered ☒ ALS Courier ☐
FedEx Express ☐

	Yes	No	N/A
Were custody seals on outside of shipping container?		☒	
If yes, how many? _____ Where? _____			
Custody seal date: _____ Seal name: _____			
Was Chain of Custody properly filled out (ink, signed, dated, etc.)?	☒		
Did all bottles have labels?	☒		
Did all bottle labels and tags agree with Chain of Custody?	☒		
Were samples received within hold time?	☒		
Did all bottles arrive in good condition (unbroken, etc.)?	☒		
Was sufficient amount of sample sent for the tests indicated?	☒		
Was correct preservation added to samples?	☒		
Subcontract test containers added to Subcontract Bin?			☒
Wetchem test containers marked with required Tests?			☒
Short hold time test containers delivered to analysts?			☒
Were VOA vials checked for absence of air bubbles?			☒
Bubbles present in sample #: _____			

5035A kits received? 10 # Low Kits: 10 # High Kits: _____

5035A kits returned? # Low Kits: _____ # High Kits: _____

Temperature of cooler upon receipt: 3.9C On ice? ☒

Explain any discrepancies:

Was client contacted? _____ Who was called? _____ By whom? _____ Date: _____

Outcome of call:



January 17, 2024

Ms. Megan Richard
Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012

Dear Ms. Richard,

On January 16th, 9 samples were received by our laboratory and assigned our laboratory project number EV24010091. The project was identified as your MP-46. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rob Greer
Laboratory Director

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/17/2024
	18378-B Redmond Way	ALS JOB#:	EV24010091
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010091-01
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/16/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/16/2024 11:00:00 AM
CLIENT SAMPLE ID	B-19_84_20240116	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/16/2024	MNC
Benzene	EPA-8260	9.1	5.0	1	UG/KG	01/17/2024	DLC
Toluene	EPA-8260	46	10	1	UG/KG	01/17/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/17/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/17/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/17/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	91.3	01/16/2024	MNC
Toluene-d8	EPA-8260	95.9	01/17/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/17/2024
	18378-B Redmond Way	ALS JOB#:	EV24010091
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010091-02
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/16/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/16/2024 11:10:00 AM
CLIENT SAMPLE ID	B-30_84_20240116	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/16/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/17/2024	DLC
Toluene	EPA-8260	U	10	1	UG/KG	01/17/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/17/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/17/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/17/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	86.8	01/16/2024	MNC
Toluene-d8	EPA-8260	94.4	01/17/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/17/2024
	18378-B Redmond Way	ALS JOB#:	EV24010091
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010091-03
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/16/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/16/2024 11:15:00 AM
CLIENT SAMPLE ID	B-18_72_20240116	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/16/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/17/2024	DLC
Toluene	EPA-8260	U	10	1	UG/KG	01/17/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/17/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/17/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/17/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	103	01/16/2024	MNC
Toluene-d8	EPA-8260	95.9	01/17/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/17/2024
	18378-B Redmond Way	ALS JOB#:	EV24010091
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010091-04
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/16/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/16/2024 11:30:00 AM
CLIENT SAMPLE ID	SW-S-10_47_20240116	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/16/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/17/2024	DLC
Toluene	EPA-8260	18	10	1	UG/KG	01/17/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/17/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/17/2024	DLC
o-Xylene	EPA-8260	11	10	1	UG/KG	01/17/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	81.1	01/16/2024	MNC
Toluene-d8	EPA-8260	92.2	01/17/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/17/2024
	18378-B Redmond Way	ALS JOB#:	EV24010091
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010091-05
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/16/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/16/2024 11:35:00 AM
CLIENT SAMPLE ID	SW-N-10_47_20240116	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/17/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/17/2024	DLC
Toluene	EPA-8260	U	10	1	UG/KG	01/17/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/17/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/17/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/17/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	82.9	01/17/2024	MNC
Toluene-d8	EPA-8260	94.7	01/17/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/17/2024
	18378-B Redmond Way	ALS JOB#:	EV24010091
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010091-06
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/16/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/16/2024 11:37:00 AM
CLIENT SAMPLE ID	SW-S-10b_24_20240116	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	67	3.0	1	MG/KG	01/17/2024	MNC
Benzene	EPA-8260	250	23	1	UG/KG	01/17/2024	DLC
Toluene	EPA-8260	7300	140	10	UG/KG	01/17/2024	DLC
Ethylbenzene	EPA-8260	1000	20	1	UG/KG	01/17/2024	DLC
m,p-Xylene	EPA-8260	3600	38	1	UG/KG	01/17/2024	DLC
o-Xylene	EPA-8260	1500	24	1	UG/KG	01/17/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	109	01/17/2024	MNC
Toluene-d8	EPA-8260	95.4	01/17/2024	DLC
Toluene-d8 10X Dilution	EPA-8260	98.9	01/17/2024	DLC

Chromatogram indicates that it is likely that sample contains weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/17/2024
	18378-B Redmond Way	ALS JOB#:	EV24010091
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010091-07
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/16/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/16/2024 11:50:00 AM
CLIENT SAMPLE ID	B-21_84_20240116	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	3.3	3.0	1	MG/KG	01/17/2024	MNC
Benzene	EPA-8260	53	20	1	UG/KG	01/17/2024	DLC
Toluene	EPA-8260	470	12	1	UG/KG	01/17/2024	DLC
Ethylbenzene	EPA-8260	31	17	1	UG/KG	01/17/2024	DLC
m,p-Xylene	EPA-8260	100	34	1	UG/KG	01/17/2024	DLC
o-Xylene	EPA-8260	52	21	1	UG/KG	01/17/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	87.5	01/17/2024	MNC
Toluene-d8	EPA-8260	99.3	01/17/2024	DLC

Chromatogram indicates that it is likely that sample contains highly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/17/2024
	18378-B Redmond Way	ALS JOB#:	EV24010091
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010091-08
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/16/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/16/2024 11:55:00 AM
CLIENT SAMPLE ID	B-29_84_20240116	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/17/2024	MNC
Benzene	EPA-8260	28	24	1	UG/KG	01/17/2024	DLC
Toluene	EPA-8260	440	14	1	UG/KG	01/17/2024	DLC
Ethylbenzene	EPA-8260	30	20	1	UG/KG	01/17/2024	DLC
m,p-Xylene	EPA-8260	94	39	1	UG/KG	01/17/2024	DLC
o-Xylene	EPA-8260	44	24	1	UG/KG	01/17/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	86.5	01/17/2024	MNC
Toluene-d8	EPA-8260	100	01/17/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/17/2024
	18378-B Redmond Way	ALS JOB#:	EV24010091
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010091-09
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/16/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/16/2024 12:05:00 PM
CLIENT SAMPLE ID	B-20_72_20240116	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/17/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/17/2024	DLC
Toluene	EPA-8260	U	10	1	UG/KG	01/17/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/17/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/17/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/17/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	86.2	01/17/2024	MNC
Toluene-d8	EPA-8260	95.0	01/17/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/17/2024
	18378-B Redmond Way	ALS SDG#:	EV24010091
	Redmond, WA 98052-5012	WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Megan Richard		
CLIENT PROJECT:	MP-46		

LABORATORY BLANK RESULTS
MBG-011624S - Batch 206062 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	MG/KG	3.0	01/16/2024	MNC

U - Analyte analyzed for but not detected at level above reporting limit.

MB-011624S - Batch 206061 - Soil by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8260	U	UG/KG	5.0	01/16/2024	DLC
Toluene	EPA-8260	U	UG/KG	10	01/16/2024	DLC
Ethylbenzene	EPA-8260	U	UG/KG	10	01/16/2024	DLC
m,p-Xylene	EPA-8260	U	UG/KG	20	01/16/2024	DLC
o-Xylene	EPA-8260	U	UG/KG	10	01/16/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/17/2024
	18378-B Redmond Way	ALS SDG#:	EV24010091
	Redmond, WA 98052-5012	WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Megan Richard		
CLIENT PROJECT:	MP-46		

LABORATORY CONTROL SAMPLE RESULTS
ALS Test Batch ID: 206062 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
TPH-Volatile Range - BS	NWTPH-GX	97.1			66.5	122.7	01/16/2024	MNC
TPH-Volatile Range - BSD	NWTPH-GX	100	3		66.5	122.7	01/16/2024	MNC

ALS Test Batch ID: 206061 - Soil by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Benzene - BS	EPA-8260	98.2			75	138	01/16/2024	DLC
Benzene - BSD	EPA-8260	98.6	0		75	138	01/16/2024	DLC
Toluene - BS	EPA-8260	98.3			71.6	122.1	01/16/2024	DLC
Toluene - BSD	EPA-8260	98.7	0		71.6	122.1	01/16/2024	DLC
Ethylbenzene - BS	EPA-8260	97.9			50	150	01/16/2024	DLC
Ethylbenzene - BSD	EPA-8260	97.5	0		50	150	01/16/2024	DLC
m,p-Xylene - BS	EPA-8260	97.5			50	150	01/16/2024	DLC
m,p-Xylene - BSD	EPA-8260	97.4	0		50	150	01/16/2024	DLC
o-Xylene - BS	EPA-8260	100			50	150	01/16/2024	DLC
o-Xylene - BSD	EPA-8260	99.7	0		50	150	01/16/2024	DLC

APPROVED BY



Rob Greer
Laboratory Director



ALS Environmental
8620 Holly Drive, Suite 100
Everett, WA 98208
Phone (425) 356-2600
Fax (425) 356-2626
<http://www.alsglobal.com>

Chain Of Custody/ Laboratory Analysis Request

ALS Lab# 8620 Holly Drive, Suite 100

EV24010091

Date 1/16/24 Page 1 Of 1

PROJECT ID: <u>MP-46</u>					ANALYSIS REQUESTED															OTHER (Specify)									
REPORT TO COMPANY: <u>Antea Group</u>					NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA 8021	MTBE by EPA 8021	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM	PCB by EPA 8082	Pesticides by EPA 8081	Metals-MTCA-5	RCRA-8	Pri Pol	TAL	Metals Other (Specify)	TCLP-Metals	VOA	Semi-Vol	Pest	Herbs	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
PROJECT MANAGER: <u>Megan Richard</u>																													
ADDRESS: <u>18316-B Redmond Way</u>																													
<u>Redmond, WA</u>																													
PHONE: <u>206-854-0349</u> P.O. #:																													
E-MAIL: <u>Megan.Richard@anteagroup.us</u>																													
INVOICE TO COMPANY: <u>same as above</u>																													
ATTENTION: <u>DigitalSolutions.equis@anteagroup.us</u>																													
ADDRESS: <u>same as above</u>																													
SAMPLE I.D.	DATE	TIME	TYPE	LAB#																									
1. <u>B-19-84-20240116</u>	<u>1/16/24</u>	<u>11:00</u>	<u>Soil</u>	<u>1</u>			X	X																					
2. <u>B-30-84-20240116</u>	<u>1/16/24</u>	<u>11:10</u>	<u>1</u>	<u>2</u>			X	X																					
3. <u>B-18-72-20240116</u>	<u>1/16/24</u>	<u>11:15</u>	<u>1</u>	<u>3</u>			X	X																					
4. <u>SW-S-10-47-20240116</u>	<u>1/16/24</u>	<u>11:30</u>	<u>1</u>	<u>4</u>			X	X																					
5. <u>SW-N-10-47-20240116</u>	<u>1/16/24</u>	<u>11:35</u>	<u>1</u>	<u>5</u>			X	X																					
6. <u>SW-S-10b-24-20240116</u>	<u>1/16/24</u>	<u>11:37</u>	<u>1</u>	<u>6</u>			X	X																					
7. <u>B-21-84-20240116</u>	<u>1/16/24</u>	<u>11:50</u>	<u>1</u>	<u>7</u>			X	X																					
8. <u>B-29-84-20240116</u>	<u>1/16/24</u>	<u>11:55</u>	<u>1</u>	<u>8</u>			X	X																					
9. <u>B-20-72-20240116</u>	<u>1/16/24</u>	<u>12:05</u>	<u>✓</u>	<u>9</u>			X	X																					
10.																													

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

- Relinquished By: Mariah Murphy, Agt, 1/16/24
Received By: B-Acs 1/16/24 1415
- Relinquished By: _____
Received By: _____

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis

10 Standard 5 3 2 1 SAME DAY

Fuels & Hydrocarbon Analysis

5 Standard 3 1 SAME DAY

OTHER:

Specify: 24 HR
TAT

*Turnaround request less than standard may incur Rush Charges

ALS ENVIRONMENTAL

Sample Receiving Checklist

Client: ANTEA GROUP

ALS Job#: E24010091

Project: ME-46

Login Date: 01-16-24

Login Time: 1420

Login By: ANF

Type of Shipping Container: Cooler ☒

Box ☐

Other ☐

Shipped via: FedEx Ground ☐
FedEx Express ☐

UPS ☐

Courier ☐

Hand Delivered ☒

ALS Courier ☐

Yes

No

N/A

Were custody seals on outside of shipping container?

If yes, how many? Where?

Custody seal date: Seal name:

☒

Was Chain of Custody properly filled out (ink, signed, dated, etc.)?

☒

Did all bottles have labels?

☒

Did all bottle labels and tags agree with Chain of Custody?

☒

Were samples received within hold time?

☒

Did all bottles arrive in good condition (unbroken, etc.)?

☒

Was sufficient amount of sample sent for the tests indicated?

☒

Was correct preservation added to samples?

☒

Subcontract test containers added to Subcontract Bin?

☒

Wetchem test containers marked with required Tests?

☒

Short hold time test containers delivered to analysts?

☒

Were VOA vials checked for absence of air bubbles?

☒

Bubbles present in sample #:

5035A kits received?

Low Kits: 9*

High Kits:

☒

5035A kits returned?

Low Kits:

High Kits:

Temperature of cooler upon receipt: 12.1 °C

On ice? ☒

Explain any discrepancies: ON SAMPLES 4, 5 & 7, CLIENT PROVIDED ADDITIONAL SODIUM BISULFATE INSTEAD OF MEOH VIAL. LOW-KIT COMPLETED FROM 402 SAMPLE

Was client contacted? Who was called? By whom? Date:

Outcome of call:



January 11, 2024

Ms. Megan Richard
Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012

Dear Ms. Richard,

On January 10th, 3 samples were received by our laboratory and assigned our laboratory project number EV24010062. The project was identified as your MP-46. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rob Greer
Laboratory Director

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/11/2024
	18378-B Redmond Way	ALS JOB#:	EV24010062
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010062-01
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/10/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/10/2024 12:10:00 PM
CLIENT SAMPLE ID	SW-N-7_47_20240110	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/11/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/11/2024	DLC
Toluene	EPA-8260	U	10	1	UG/KG	01/11/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/11/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/11/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/11/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	71.1	01/11/2024	MNC
Toluene-d8	EPA-8260	92.2	01/11/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/11/2024
	18378-B Redmond Way	ALS JOB#:	EV24010062
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010062-02
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/10/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/10/2024 12:05:00 PM
CLIENT SAMPLE ID	B-12_72_20240110	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/11/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/11/2024	DLC
Toluene	EPA-8260	U	10	1	UG/KG	01/11/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/11/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/11/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/11/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	75.6	01/11/2024	MNC
Toluene-d8	EPA-8260	92.3	01/11/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/11/2024
	18378-B Redmond Way	ALS JOB#:	EV24010062
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010062-03
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/10/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/10/2024 12:00:00 PM
CLIENT SAMPLE ID	B-26_72_20240110	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/11/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/11/2024	DLC
Toluene	EPA-8260	17	10	1	UG/KG	01/11/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/11/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/11/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/11/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	82.7	01/11/2024	MNC
Toluene-d8	EPA-8260	92.7	01/11/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/11/2024
	18378-B Redmond Way	ALS SDG#:	EV24010062
	Redmond, WA 98052-5012	WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Megan Richard		
CLIENT PROJECT:	MP-46		

LABORATORY BLANK RESULTS
MBG-011124S - Batch 205928 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	MG/KG	3.0	01/11/2024	MNC

U - Analyte analyzed for but not detected at level above reporting limit.

MB-011124S - Batch 205922 - Soil by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8260	U	UG/KG	5.0	01/11/2024	DLC
Toluene	EPA-8260	U	UG/KG	10	01/11/2024	DLC
Ethylbenzene	EPA-8260	U	UG/KG	10	01/11/2024	DLC
m,p-Xylene	EPA-8260	U	UG/KG	20	01/11/2024	DLC
o-Xylene	EPA-8260	U	UG/KG	10	01/11/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/11/2024
	18378-B Redmond Way	ALS SDG#:	EV24010062
	Redmond, WA 98052-5012	WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Megan Richard		
CLIENT PROJECT:	MP-46		

LABORATORY CONTROL SAMPLE RESULTS
ALS Test Batch ID: 205928 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
TPH-Volatile Range - BS	NWTPH-GX	99.9			66.5	122.7	01/11/2024	MNC
TPH-Volatile Range - BSD	NWTPH-GX	99.4	0		66.5	122.7	01/11/2024	MNC

ALS Test Batch ID: 205922 - Soil by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Benzene - BS	EPA-8260	119			75	138	01/11/2024	DLC
Benzene - BSD	EPA-8260	105	13		75	138	01/11/2024	DLC
Toluene - BS	EPA-8260	119			71.6	122.1	01/11/2024	DLC
Toluene - BSD	EPA-8260	104	13		71.6	122.1	01/11/2024	DLC
Ethylbenzene - BS	EPA-8260	110			50	150	01/11/2024	DLC
Ethylbenzene - BSD	EPA-8260	97.1	12		50	150	01/11/2024	DLC
m,p-Xylene - BS	EPA-8260	111			50	150	01/11/2024	DLC
m,p-Xylene - BSD	EPA-8260	97.9	12		50	150	01/11/2024	DLC
o-Xylene - BS	EPA-8260	106			50	150	01/11/2024	DLC
o-Xylene - BSD	EPA-8260	94.7	11		50	150	01/11/2024	DLC

APPROVED BY



Rob Greer
Laboratory Director



ALS Job# (Laboratory Use Only)

EV24010062

Date 1/10/24 Page 1 Of 1

[illegible]

SIGNATURES (Name, Company, Date, Time):

Received By:

TURNAROUND REQUESTED in Business Days*

OTHER:

Organic, Metals & Inorganic Analysis

10 5 3 2 1 SAM DAY

Fuels & Hydrocarbon Analysis

5 3 1 SAM
DA

Specify: _____

zuhr
TAT

**Turnaround request less than standard may incur Rush Charges*

ALS ENVIRONMENTAL

Sample Receiving Checklist

Client: Antea ALS Job#: EV24010062

Project: MP-46

Login Date: 1/10/24 Login Time: 1420 Login By: CE

Type of Shipping Container: Cooler ☒ Box ☐ Other ☐

Shipped via: FedEx Ground ☐ UPS ☐ Courier ☐ Hand Delivered ☒ ALS Courier ☐
FedEx Express ☐

Yes No N/A

Were custody seals on outside of shipping container? ☐ ☐ ☒
If yes, how many? Where?
Custody seal date: Seal name:

Was Chain of Custody properly filled out (ink, signed, dated, etc.)? ☒ ☐ ☐

Did all bottles have labels? ☒ ☐ ☐

Did all bottle labels and tags agree with Chain of Custody? ☒ ☐ ☐

Were samples received within hold time? ☒ ☐ ☐

Did all bottles arrive in good condition (unbroken, etc.)? ☒ ☐ ☐

Was sufficient amount of sample sent for the tests indicated? ☒ ☐ ☐

Was correct preservation added to samples? ☒ ☐ ☐

Subcontract test containers added to Subcontract Bin? ☐ ☐ ☒

Wetchem test containers marked with required Tests? ☐ ☐ ☒

Short hold time test containers delivered to analysts? ☒ ☐ ☐

Were VOA vials checked for absence of air bubbles? ☐ ☐ ☒

Bubbles present in sample #:

5035A kits received?
Low Kits: 3 # High Kits:

✓
Sodium Bisulfate kits

5035A kits returned?
Low Kits: # High Kits:

Temperature of cooler upon receipt: 9.8° On ice? ☐ ☒ ☐

Explain any discrepancies:

Was client contacted? Who was called? By whom? Date:

Outcome of call:



January 8, 2024

Ms. Megan Richard
Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012

Dear Ms. Richard,

On January 5th, 15 samples were received by our laboratory and assigned our laboratory project number EV24010034. The project was identified as your MP-46. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rob Greer
Laboratory Director



CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/8/2024
	18378-B Redmond Way	ALS JOB#:	EV24010034
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010034-01
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/05/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/5/2024 11:50:00 AM
CLIENT SAMPLE ID	SW-N-7_36_20240105	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/05/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/07/2024	DLC
Toluene	EPA-8260	U	10	1	UG/KG	01/07/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/07/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/07/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/07/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	126	01/05/2024	MNC
Toluene-d8	EPA-8260	95.5	01/07/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/8/2024
	18378-B Redmond Way	ALS JOB#:	EV24010034
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010034-02
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/05/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/5/2024 11:55:00 AM
CLIENT SAMPLE ID	B-12_47_20240105	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	5.9	3.0	1	MG/KG	01/05/2024	MNC
Benzene	EPA-8260	7.3	5.0	1	UG/KG	01/07/2024	DLC
Toluene	EPA-8260	370	12	1	UG/KG	01/07/2024	DLC
Ethylbenzene	EPA-8260	14	10	1	UG/KG	01/07/2024	DLC
m,p-Xylene	EPA-8260	55	20	1	UG/KG	01/07/2024	DLC
o-Xylene	EPA-8260	24	10	1	UG/KG	01/07/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	97.8	01/05/2024	MNC
Toluene-d8	EPA-8260	95.3	01/07/2024	DLC
Toluene-d8	EPA-8260	98.2	01/07/2024	DLC

Chromatogram indicates that it is likely that sample contains highly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/8/2024
	18378-B Redmond Way	ALS JOB#:	EV24010034
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010034-03
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/05/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/5/2024 12:00:00 PM
CLIENT SAMPLE ID	B-26_47_20240105	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	3500	300	100	MG/KG	01/08/2024	MNC
Benzene	EPA-8260	2300	240	10	UG/KG	01/07/2024	DLC
Toluene	EPA-8260	130000	1400	100	UG/KG	01/08/2024	DLC
Ethylbenzene	EPA-8260	51000	2000	100	UG/KG	01/08/2024	DLC
m,p-Xylene	EPA-8260	200000	4000	100	UG/KG	01/08/2024	DLC
o-Xylene	EPA-8260	79000	2500	100	UG/KG	01/08/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 100X Dilution	NWTPH-GX	241 SUR07	01/08/2024	MNC
Toluene-d8 10X Dilution	EPA-8260	107	01/07/2024	DLC
Toluene-d8 100X Dilution	EPA-8260	97.2	01/08/2024	DLC

SUR07 -The surrogate recovery could not be determined due to dilution below the calibration range.
Chromatogram indicates that it is likely that sample contains lightly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group 18378-B Redmond Way Redmond, WA 98052-5012	DATE:	1/8/2024
		ALS JOB#:	EV24010034
CLIENT CONTACT:	Megan Richard	ALS SAMPLE#:	EV24010034-04
CLIENT PROJECT:	MP-46	DATE RECEIVED:	01/05/2024
CLIENT SAMPLE ID	SW-N-13_47_20240105	COLLECTION DATE:	1/5/2024 12:45:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/05/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/07/2024	DLC
Toluene	EPA-8260	14	10	1	UG/KG	01/07/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/07/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/07/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/07/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	92.4	01/05/2024	MNC
Toluene-d8	EPA-8260	94.6	01/07/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/8/2024
	18378-B Redmond Way	ALS JOB#:	EV24010034
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010034-05
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/05/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/5/2024 12:50:00 PM
CLIENT SAMPLE ID	B-24_47_20240105	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	1200	300	100	MG/KG	01/08/2024	MNC
Benzene	EPA-8260	250	220	10	UG/KG	01/07/2024	DLC
Toluene	EPA-8260	19000	130	10	UG/KG	01/07/2024	DLC
Ethylbenzene	EPA-8260	14000	180	10	UG/KG	01/07/2024	DLC
m,p-Xylene	EPA-8260	64000	360	10	UG/KG	01/07/2024	DLC
o-Xylene	EPA-8260	22000	230	10	UG/KG	01/07/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 100X Dilution	NWTPH-GX	U, SUR07	01/08/2024	MNC
Toluene-d8 10X Dilution	EPA-8260	102	01/07/2024	DLC

SUR07 -The surrogate recovery could not be determined due to dilution below the calibration range.
Chromatogram indicates that it is likely that sample contains weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/8/2024
	18378-B Redmond Way	ALS JOB#:	EV24010034
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010034-06
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/05/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/5/2024 12:55:00 PM
CLIENT SAMPLE ID	B-27_47_20240105	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	510	300	100	MG/KG	01/08/2024	MNC
Benzene	EPA-8260	1800	210	10	UG/KG	01/07/2024	DLC
Toluene	EPA-8260	31000	130	10	UG/KG	01/07/2024	DLC
Ethylbenzene	EPA-8260	6300	180	10	UG/KG	01/07/2024	DLC
m,p-Xylene	EPA-8260	25000	350	10	UG/KG	01/07/2024	DLC
o-Xylene	EPA-8260	10000	220	10	UG/KG	01/07/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 100X Dilution	NWTPH-GX	U, SUR07	01/08/2024	MNC
Toluene-d8 10X Dilution	EPA-8260	95.7	01/07/2024	DLC

SUR07 -The surrogate recovery could not be determined due to dilution below the calibration range.
Chromatogram indicates that it is likely that sample contains weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/8/2024
	18378-B Redmond Way	ALS JOB#:	EV24010034
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010034-07
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/05/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/5/2024 1:10:00 PM
CLIENT SAMPLE ID	SW-N-12_47_20240105	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/05/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/07/2024	DLC
Toluene	EPA-8260	20	10	1	UG/KG	01/07/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/07/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/07/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/07/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	92.6	01/05/2024	MNC
Toluene-d8	EPA-8260	94.6	01/07/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/8/2024
	18378-B Redmond Way	ALS JOB#:	EV24010034
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010034-08
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/05/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/5/2024 1:15:00 PM
CLIENT SAMPLE ID	B-22_47_20240105	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	2600	300	100	MG/KG	01/08/2024	MNC
Benzene	EPA-8260	5600	250	10	UG/KG	01/07/2024	DLC
Toluene	EPA-8260	200000	1500	100	UG/KG	01/08/2024	DLC
Ethylbenzene	EPA-8260	46000	2100	100	UG/KG	01/08/2024	DLC
m,p-Xylene	EPA-8260	170000	4100	100	UG/KG	01/08/2024	DLC
o-Xylene	EPA-8260	65000	2600	100	UG/KG	01/08/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 100X Dilution	NWTPH-GX	U, SUR07	01/08/2024	MNC
Toluene-d8 10X Dilution	EPA-8260	102	01/07/2024	DLC
Toluene-d8 100X Dilution	EPA-8260	97.7	01/08/2024	DLC

SUR07 -The surrogate recovery could not be determined due to dilution below the calibration range.
Chromatogram indicates that it is likely that sample contains lightly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/8/2024
	18378-B Redmond Way	ALS JOB#:	EV24010034
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010034-09
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/05/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/5/2024 1:20:00 PM
CLIENT SAMPLE ID	B-28_47_20240105	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	220	30	10	MG/KG	01/08/2024	MNC
Benzene	EPA-8260	1400	240	10	UG/KG	01/07/2024	DLC
Toluene	EPA-8260	26000	140	10	UG/KG	01/07/2024	DLC
Ethylbenzene	EPA-8260	4000	200	10	UG/KG	01/07/2024	DLC
m,p-Xylene	EPA-8260	16000	400	10	UG/KG	01/07/2024	DLC
o-Xylene	EPA-8260	6300	250	10	UG/KG	01/07/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 10X Dilution	NWTPH-GX	77.6	01/08/2024	MNC
Toluene-d8 10X Dilution	EPA-8260	97.8	01/07/2024	DLC

Chromatogram indicates that it is likely that sample contains weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/8/2024
	18378-B Redmond Way	ALS JOB#:	EV24010034
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010034-10
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/05/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/5/2024 1:40:00 PM
CLIENT SAMPLE ID	SW-N-11_47_20240105	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	01/05/2024	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	01/07/2024	DLC
Toluene	EPA-8260	U	10	1	UG/KG	01/07/2024	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	01/07/2024	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	01/07/2024	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	01/07/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	98.1	01/05/2024	MNC
Toluene-d8	EPA-8260	96.1	01/07/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/8/2024
	18378-B Redmond Way	ALS JOB#:	EV24010034
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010034-11
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/05/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/5/2024 1:45:00 PM
CLIENT SAMPLE ID	B-20_47_20240105	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	2700	300	100	MG/KG	01/08/2024	MNC
Benzene	EPA-8260	3800	270	10	UG/KG	01/07/2024	DLC
Toluene	EPA-8260	170000	1600	100	UG/KG	01/08/2024	DLC
Ethylbenzene	EPA-8260	46000	220	10	UG/KG	01/07/2024	DLC
m,p-Xylene	EPA-8260	130000	4400	100	UG/KG	01/08/2024	DLC
o-Xylene	EPA-8260	50000	2800	100	UG/KG	01/08/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 100X Dilution	NWTPH-GX	U, SUR07	01/08/2024	MNC
Toluene-d8 10X Dilution	EPA-8260	105	01/07/2024	DLC
Toluene-d8 100X Dilution	EPA-8260	97.7	01/08/2024	DLC

SUR07 -The surrogate recovery could not be determined due to dilution below the calibration range.
Chromatogram indicates that it is likely that sample contains lightly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/8/2024
	18378-B Redmond Way	ALS JOB#:	EV24010034
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010034-12
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/05/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/5/2024 1:50:00 PM
CLIENT SAMPLE ID	B-29_47_20240105	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	11000	600	200	MG/KG	01/08/2024	MNC
Benzene	EPA-8260	25000	6900	200	UG/KG	01/08/2024	DLC
Toluene	EPA-8260	790000	4100	200	UG/KG	01/08/2024	DLC
Ethylbenzene	EPA-8260	180000	5800	200	UG/KG	01/08/2024	DLC
m,p-Xylene	EPA-8260	680000	11000	200	UG/KG	01/08/2024	DLC
o-Xylene	EPA-8260	260000	7100	200	UG/KG	01/08/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 200X Dilution	NWTPH-GX	U, SUR07	01/08/2024	MNC
Toluene-d8 200X Dilution	EPA-8260	98.7	01/08/2024	DLC

SUR07 -The surrogate recovery could not be determined due to dilution below the calibration range.
Chromatogram indicates that it is likely that sample contains lightly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/8/2024
	18378-B Redmond Way	ALS JOB#:	EV24010034
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010034-13
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/05/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/5/2024 2:05:00 PM
CLIENT SAMPLE ID	SW-S-10_47_20240105	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	13	3.0	1	MG/KG	01/08/2024	MNC
Benzene	EPA-8260	U	21	1	UG/KG	01/07/2024	DLC
Toluene	EPA-8260	640	12	1	UG/KG	01/07/2024	DLC
Ethylbenzene	EPA-8260	160	18	1	UG/KG	01/07/2024	DLC
m,p-Xylene	EPA-8260	660	35	1	UG/KG	01/07/2024	DLC
o-Xylene	EPA-8260	270	22	1	UG/KG	01/07/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	67.4	01/08/2024	MNC
Toluene-d8	EPA-8260	96.7	01/07/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains highly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/8/2024
	18378-B Redmond Way	ALS JOB#:	EV24010034
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010034-14
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/05/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/5/2024 2:10:00 PM
CLIENT SAMPLE ID	B-19_47_20240105	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	10000	600	200	MG/KG	01/08/2024	MNC
Benzene	EPA-8260	26000	2500	100	UG/KG	01/08/2024	DLC
Toluene	EPA-8260	860000	7300	500	UG/KG	01/08/2024	DLC
Ethylbenzene	EPA-8260	170000	2100	100	UG/KG	01/08/2024	DLC
m,p-Xylene	EPA-8260	620000	4100	100	UG/KG	01/08/2024	DLC
o-Xylene	EPA-8260	240000	2600	100	UG/KG	01/08/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 200X Dilution	NWTPH-GX	U, SUR07	01/08/2024	MNC
Toluene-d8 100X Dilution	EPA-8260	99.4	01/08/2024	DLC
Toluene-d8 500X Dilution	EPA-8260	97.7	01/08/2024	DLC

SUR07 -The surrogate recovery could not be determined due to dilution below the calibration range.
Chromatogram indicates that it is likely that sample contains lightly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/8/2024
	18378-B Redmond Way	ALS JOB#:	EV24010034
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010034-15
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/05/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	1/5/2024 2:15:00 PM
CLIENT SAMPLE ID	B-30_47_20240105	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	6100	600	200	MG/KG	01/08/2024	MNC
Benzene	EPA-8260	9800	3800	200	UG/KG	01/08/2024	DLC
Toluene	EPA-8260	450000	2300	200	UG/KG	01/08/2024	DLC
Ethylbenzene	EPA-8260	100000	3200	200	UG/KG	01/08/2024	DLC
m,p-Xylene	EPA-8260	380000	6300	200	UG/KG	01/08/2024	DLC
o-Xylene	EPA-8260	140000	4000	200	UG/KG	01/08/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 200X Dilution	NWTPH-GX	U, SUR07	01/08/2024	MNC
Toluene-d8 200X Dilution	EPA-8260	97.7	01/08/2024	DLC

SUR07 -The surrogate recovery could not be determined due to dilution below the calibration range.
Chromatogram indicates that it is likely that sample contains lightly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group 18378-B Redmond Way Redmond, WA 98052-5012	DATE: 1/8/2024 ALS SDG#: EV24010034 WDOE ACCREDITATION: C601
CLIENT CONTACT:	Megan Richard	
CLIENT PROJECT:	MP-46	

LABORATORY BLANK RESULTS
MBG-010524S - Batch 205754 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	MG/KG	3.0	01/05/2024	MNC

U - Analyte analyzed for but not detected at level above reporting limit.

MB-010724S - Batch 205776 - Soil by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8260	U	UG/KG	5.0	01/07/2024	DLC
Toluene	EPA-8260	U	UG/KG	10	01/07/2024	DLC
Ethylbenzene	EPA-8260	U	UG/KG	10	01/07/2024	DLC
m,p-Xylene	EPA-8260	U	UG/KG	20	01/07/2024	DLC
o-Xylene	EPA-8260	U	UG/KG	10	01/07/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/8/2024
	18378-B Redmond Way	ALS SDG#:	EV24010034
	Redmond, WA 98052-5012	WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Megan Richard		
CLIENT PROJECT:	MP-46		

LABORATORY CONTROL SAMPLE RESULTS
ALS Test Batch ID: 205754 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
TPH-Volatile Range - BS	NWTPH-GX	99.4			66.5	122.7	01/05/2024	MNC
TPH-Volatile Range - BSD	NWTPH-GX	98.5	1		66.5	122.7	01/05/2024	MNC

ALS Test Batch ID: 205776 - Soil by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Benzene - BS	EPA-8260	109			75	138	01/07/2024	DLC
Benzene - BSD	EPA-8260	108	0		75	138	01/07/2024	DLC
Toluene - BS	EPA-8260	107			71.6	122.1	01/07/2024	DLC
Toluene - BSD	EPA-8260	108	0		71.6	122.1	01/07/2024	DLC
Ethylbenzene - BS	EPA-8260	104			50	150	01/07/2024	DLC
Ethylbenzene - BSD	EPA-8260	104	0		50	150	01/07/2024	DLC
m,p-Xylene - BS	EPA-8260	105			50	150	01/07/2024	DLC
m,p-Xylene - BSD	EPA-8260	105	0		50	150	01/07/2024	DLC
o-Xylene - BS	EPA-8260	104			50	150	01/07/2024	DLC
o-Xylene - BSD	EPA-8260	104	0		50	150	01/07/2024	DLC

APPROVED BY



Rob Greer
Laboratory Director



ALS Job# (Laboratory Use Only)

EV24010034

Date 1/5/24 Page 1 Of 2

[illegible]

SIGNATURES (Name, Company, Date, Time):

Received By: 19-Acs 1/5/24 1535

Received By:

TURNAROUND REQUESTED in Business Days*

OTHER:

Organic, Metals & Inorganic Analysis

Fuels & Hydrocarbon Analysis

Specify: 24 hr
TAT

*Turnaround request less than standard may incur Rush Charges



ALS Job# (Laboratory Use Only)

Q 24010030

Date 1/5/24 Page 2 Of 2

[illegible]

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Colin DeGuerre, Antec Group, 1/5/24,
Received By: [Signature] ACS 1/5/24 1535

2. Relinquished By: _____
Received By: _____

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis

OTHER:

Specify: _____

10 5 3 2 1 SAME DAY

Standard

Fuels & Hydrocarbon Analysis

5 3 1 SAME DAY

Standard

24 h

**Turnaround request less than standard may incur Rush Charges*

ALS ENVIRONMENTAL

Sample Receiving Checklist

Client: Arden ALS Job#: EV24010034

Project: MP-46

Login Date: 1/5/14 Login Time: 1545 Login By: CAW

Type of Shipping Container: Cooler ☒ Box ☐ Other ☐

Shipped via: FedEx Ground ☐ UPS ☐ Courier ☐ Hand Delivered ☒ ALS Courier ☐
FedEx Express ☐

Yes No N/A

Were custody seals on outside of shipping container? ☐ ☒ ☐
If yes, how many? Where?
Custody seal date: Seal name:

Was Chain of Custody properly filled out (ink, signed, dated, etc.)? ☒ ☐ ☐

Did all bottles have labels? ☒ ☐ ☐

Did all bottle labels and tags agree with Chain of Custody? ☒ ☐ ☐

Were samples received within hold time? ☒ ☐ ☐

Did all bottles arrive in good condition (unbroken, etc.)? ☒ ☐ ☐

Was sufficient amount of sample sent for the tests indicated? ☒ ☐ ☐

Was correct preservation added to samples? ☒ ☐ ☐

Subcontract test containers added to Subcontract Bin? ☐ ☐ ☒

Wetchem test containers marked with required Tests? ☐ ☐ ☒

Short hold time test containers delivered to analysts? ☐ ☐ ☒

Were VOA vials checked for absence of air bubbles? ☐ ☐ ☒

Bubbles present in sample #:

5035A kits received? 15 ☒ ☐ ☐
Low Kits: # High Kits:

5035A kits returned? ☐ ☐ ☐
Low Kits: # High Kits:

Temperature of cooler upon receipt: 4.9c On ice? ☒ ☐ ☐

Explain any discrepancies:

Was client contacted? Who was called? By whom? Date:

Outcome of call:



January 2, 2024

Ms. Megan Richard
Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012

Dear Ms. Richard,

On January 2nd, 7 samples were received by our laboratory and assigned our laboratory project number EV24010001. The project was identified as your MP-46. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rob Greer
Laboratory Director



CERTIFICATE OF ANALYSIS

CLIENT: Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012
DATE: 1/2/2024
ALS JOB#: EV24010001
ALS SAMPLE#: EV24010001-01
CLIENT CONTACT: Megan Richard
CLIENT PROJECT: MP-46
DATE RECEIVED: 01/02/2024
COLLECTION DATE: 12/27/2023 11:30:00 AM
CLIENT SAMPLE ID: B-24_24_20231227
WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	2400	50	UG/KG	12/29/2023	DLC
Chloromethane	EPA-8260	U	2200	50	UG/KG	12/29/2023	DLC
Vinyl Chloride	EPA-8260	U	500	50	UG/KG	12/29/2023	DLC
Bromomethane	EPA-8260	U	2500	50	UG/KG	12/29/2023	DLC
Chloroethane	EPA-8260	U	1900	50	UG/KG	12/29/2023	DLC
Carbon Tetrachloride	EPA-8260	U	1200	50	UG/KG	12/29/2023	DLC
Trichlorofluoromethane	EPA-8260	U	1600	50	UG/KG	12/29/2023	DLC
Carbon Disulfide	EPA-8260	U	1700	50	UG/KG	12/29/2023	DLC
Acetone	EPA-8260	U	2600	50	UG/KG	12/29/2023	DLC
1,1-Dichloroethene	EPA-8260	U	2400	50	UG/KG	12/29/2023	DLC
Methylene Chloride	EPA-8260	U	15000	50	UG/KG	12/29/2023	DLC
Acrylonitrile	EPA-8260	U	2500	50	UG/KG	12/29/2023	DLC
Methyl T-Butyl Ether	EPA-8260	U	2500	50	UG/KG	12/29/2023	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	2300	50	UG/KG	12/29/2023	DLC
1,1-Dichloroethane	EPA-8260	U	1300	50	UG/KG	12/29/2023	DLC
2-Butanone	EPA-8260	U	2500	50	UG/KG	12/29/2023	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	1400	50	UG/KG	12/29/2023	DLC
2,2-Dichloropropane	EPA-8260	U	1800	50	UG/KG	12/29/2023	DLC
Bromochloromethane	EPA-8260	U	1700	50	UG/KG	12/29/2023	DLC
Chloroform	EPA-8260	U	2300	50	UG/KG	12/29/2023	DLC
1,1,1-Trichloroethane	EPA-8260	U	2500	50	UG/KG	12/29/2023	DLC
1,1-Dichloropropene	EPA-8260	U	2000	50	UG/KG	12/29/2023	DLC
1,2-Dichloroethane	EPA-8260	U	710	50	UG/KG	12/29/2023	DLC
Benzene	EPA-8260	2100	1200	50	UG/KG	12/29/2023	DLC
Trichloroethene	EPA-8260	U	1300	50	UG/KG	12/29/2023	DLC
1,2-Dichloropropane	EPA-8260	U	760	50	UG/KG	12/29/2023	DLC
Dibromomethane	EPA-8260	U	2400	50	UG/KG	12/29/2023	DLC
Bromodichloromethane	EPA-8260	U	740	50	UG/KG	12/29/2023	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	1600	50	UG/KG	12/29/2023	DLC
4-Methyl-2-Pentanone	EPA-8260	U	2900	50	UG/KG	12/29/2023	DLC
Toluene	EPA-8260	85000	710	50	UG/KG	12/29/2023	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	1000	50	UG/KG	12/29/2023	DLC
1,1,2-Trichloroethane	EPA-8260	U	620	50	UG/KG	12/29/2023	DLC
2-Hexanone	EPA-8260	U	4200	50	UG/KG	12/29/2023	DLC
1,3-Dichloropropane	EPA-8260	U	500	50	UG/KG	12/29/2023	DLC
Tetrachloroethylene	EPA-8260	U	1600	50	UG/KG	12/29/2023	DLC
Dibromochloromethane	EPA-8260	U	500	50	UG/KG	12/29/2023	DLC
1,2-Dibromoethane	EPA-8260	U	570	50	UG/KG	12/29/2023	DLC



CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/2/2024
	18378-B Redmond Way	ALS JOB#:	EV24010001
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010001-01
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/02/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 11:30:00 AM
CLIENT SAMPLE ID	B-24_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Chlorobenzene	EPA-8260	U	680	50	UG/KG	12/29/2023	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	930	50	UG/KG	12/29/2023	DLC
Ethylbenzene	EPA-8260	25000	1000	50	UG/KG	12/29/2023	DLC
m,p-Xylene	EPA-8260	95000	2000	50	UG/KG	12/29/2023	DLC
Styrene	EPA-8260	U	970	50	UG/KG	12/29/2023	DLC
o-Xylene	EPA-8260	37000	1200	50	UG/KG	12/29/2023	DLC
Bromoform	EPA-8260	U	870	50	UG/KG	12/29/2023	DLC
Isopropylbenzene	EPA-8260	2600	920	50	UG/KG	12/29/2023	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	1700	50	UG/KG	12/29/2023	DLC
1,2,3-Trichloropropane	EPA-8260	U	500	50	UG/KG	12/29/2023	DLC
Bromobenzene	EPA-8260	U	1100	50	UG/KG	12/29/2023	DLC
N-Propyl Benzene	EPA-8260	11000	930	50	UG/KG	12/29/2023	DLC
2-Chlorotoluene	EPA-8260	U	1300	50	UG/KG	12/29/2023	DLC
1,3,5-Trimethylbenzene	EPA-8260	15000	1300	50	UG/KG	12/29/2023	DLC
4-Chlorotoluene	EPA-8260	U	890	50	UG/KG	12/29/2023	DLC
T-Butyl Benzene	EPA-8260	U	2300	50	UG/KG	12/29/2023	DLC
1,2,4-Trimethylbenzene	EPA-8260	57000	1300	50	UG/KG	12/29/2023	DLC
S-Butyl Benzene	EPA-8260	U	1400	50	UG/KG	12/29/2023	DLC
P-Isopropyltoluene	EPA-8260	U	1100	50	UG/KG	12/29/2023	DLC
1,3-Dichlorobenzene	EPA-8260	U	780	50	UG/KG	12/29/2023	DLC
1,4-Dichlorobenzene	EPA-8260	U	960	50	UG/KG	12/29/2023	DLC
N-Butylbenzene	EPA-8260	2800	1800	50	UG/KG	12/29/2023	DLC
1,2-Dichlorobenzene	EPA-8260	U	840	50	UG/KG	12/29/2023	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	2500	50	UG/KG	12/29/2023	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	1400	50	UG/KG	12/29/2023	DLC
Hexachlorobutadiene	EPA-8260	U	1300	50	UG/KG	12/29/2023	DLC
Naphthalene	EPA-8260	3800	930	50	UG/KG	12/29/2023	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	710	50	UG/KG	12/29/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4 50X Dilution	EPA-8260	99.9	12/29/2023	DLC
Toluene-d8 50X Dilution	EPA-8260	93.6	12/29/2023	DLC
4-Bromofluorobenzene 50X Dilution	EPA-8260	103	12/29/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT: Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012
DATE: 1/2/2024
ALS JOB#: EV24010001
ALS SAMPLE#: EV24010001-02
CLIENT CONTACT: Megan Richard
DATE RECEIVED: 01/02/2024
CLIENT PROJECT: MP-46
COLLECTION DATE: 12/27/2023 11:45:00 AM
CLIENT SAMPLE ID: B-22_24_20231227
WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	2400	50	UG/KG	12/29/2023	DLC
Chloromethane	EPA-8260	U	2200	50	UG/KG	12/29/2023	DLC
Vinyl Chloride	EPA-8260	U	500	50	UG/KG	12/29/2023	DLC
Bromomethane	EPA-8260	U	2500	50	UG/KG	12/29/2023	DLC
Chloroethane	EPA-8260	U	1900	50	UG/KG	12/29/2023	DLC
Carbon Tetrachloride	EPA-8260	U	1200	50	UG/KG	12/29/2023	DLC
Trichlorofluoromethane	EPA-8260	U	1500	50	UG/KG	12/29/2023	DLC
Carbon Disulfide	EPA-8260	U	1700	50	UG/KG	12/29/2023	DLC
Acetone	EPA-8260	U	2600	50	UG/KG	12/29/2023	DLC
1,1-Dichloroethene	EPA-8260	U	2300	50	UG/KG	12/29/2023	DLC
Methylene Chloride	EPA-8260	U	12000	50	UG/KG	12/29/2023	DLC
Acrylonitrile	EPA-8260	U	2500	50	UG/KG	12/29/2023	DLC
Methyl T-Butyl Ether	EPA-8260	U	2400	50	UG/KG	12/29/2023	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	2200	50	UG/KG	12/29/2023	DLC
1,1-Dichloroethane	EPA-8260	U	1200	50	UG/KG	12/29/2023	DLC
2-Butanone	EPA-8260	U	2500	50	UG/KG	12/29/2023	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	1400	50	UG/KG	12/29/2023	DLC
2,2-Dichloropropane	EPA-8260	U	1800	50	UG/KG	12/29/2023	DLC
Bromochloromethane	EPA-8260	U	1600	50	UG/KG	12/29/2023	DLC
Chloroform	EPA-8260	U	2300	50	UG/KG	12/29/2023	DLC
1,1,1-Trichloroethane	EPA-8260	U	2400	50	UG/KG	12/29/2023	DLC
1,1-Dichloropropene	EPA-8260	U	2000	50	UG/KG	12/29/2023	DLC
1,2-Dichloroethane	EPA-8260	U	700	50	UG/KG	12/29/2023	DLC
Benzene	EPA-8260	6700	1200	50	UG/KG	12/29/2023	DLC
Trichloroethene	EPA-8260	U	1300	50	UG/KG	12/29/2023	DLC
1,2-Dichloropropane	EPA-8260	U	750	50	UG/KG	12/29/2023	DLC
Dibromomethane	EPA-8260	U	2400	50	UG/KG	12/29/2023	DLC
Bromodichloromethane	EPA-8260	U	730	50	UG/KG	12/29/2023	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	1600	50	UG/KG	12/29/2023	DLC
4-Methyl-2-Pentanone	EPA-8260	U	2900	50	UG/KG	12/29/2023	DLC
Toluene	EPA-8260	230000 E	700	50	UG/KG	12/29/2023	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	1000	50	UG/KG	12/29/2023	DLC
1,1,2-Trichloroethane	EPA-8260	U	610	50	UG/KG	12/29/2023	DLC
2-Hexanone	EPA-8260	U	4200	50	UG/KG	12/29/2023	DLC
1,3-Dichloropropane	EPA-8260	U	500	50	UG/KG	12/29/2023	DLC
Tetrachloroethylene	EPA-8260	U	1500	50	UG/KG	12/29/2023	DLC
Dibromochloromethane	EPA-8260	U	500	50	UG/KG	12/29/2023	DLC
1,2-Dibromoethane	EPA-8260	U	570	50	UG/KG	12/29/2023	DLC
Chlorobenzene	EPA-8260	U	660	50	UG/KG	12/29/2023	DLC



CERTIFICATE OF ANALYSIS

CLIENT: Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012
DATE: 1/2/2024
ALS JOB#: EV24010001
ALS SAMPLE#: EV24010001-02
CLIENT CONTACT: Megan Richard
DATE RECEIVED: 01/02/2024
CLIENT PROJECT: MP-46
COLLECTION DATE: 12/27/2023 11:45:00 AM
CLIENT SAMPLE ID: B-22_24_20231227
WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,1,1,2-Tetrachloroethane	EPA-8260	U	920	50	UG/KG	12/29/2023	DLC
Ethylbenzene	EPA-8260	51000	990	50	UG/KG	12/29/2023	DLC
m,p-Xylene	EPA-8260	190000	2000	50	UG/KG	12/29/2023	DLC
Styrene	EPA-8260	U	950	50	UG/KG	12/29/2023	DLC
o-Xylene	EPA-8260	72000	1200	50	UG/KG	12/29/2023	DLC
Bromoform	EPA-8260	U	860	50	UG/KG	12/29/2023	DLC
Isopropylbenzene	EPA-8260	4400	910	50	UG/KG	12/29/2023	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	1700	50	UG/KG	12/29/2023	DLC
1,2,3-Trichloropropane	EPA-8260	U	500	50	UG/KG	12/29/2023	DLC
Bromobenzene	EPA-8260	U	1100	50	UG/KG	12/29/2023	DLC
N-Propyl Benzene	EPA-8260	18000	920	50	UG/KG	12/29/2023	DLC
2-Chlorotoluene	EPA-8260	U	1200	50	UG/KG	12/29/2023	DLC
1,3,5-Trimethylbenzene	EPA-8260	23000	1300	50	UG/KG	12/29/2023	DLC
4-Chlorotoluene	EPA-8260	U	870	50	UG/KG	12/29/2023	DLC
T-Butyl Benzene	EPA-8260	U	2300	50	UG/KG	12/29/2023	DLC
1,2,4-Trimethylbenzene	EPA-8260	84000	1200	50	UG/KG	12/29/2023	DLC
S-Butyl Benzene	EPA-8260	U	1400	50	UG/KG	12/29/2023	DLC
P-Isopropyltoluene	EPA-8260	U	1100	50	UG/KG	12/29/2023	DLC
1,3-Dichlorobenzene	EPA-8260	U	770	50	UG/KG	12/29/2023	DLC
1,4-Dichlorobenzene	EPA-8260	U	950	50	UG/KG	12/29/2023	DLC
N-Butylbenzene	EPA-8260	3800	1800	50	UG/KG	12/29/2023	DLC
1,2-Dichlorobenzene	EPA-8260	U	820	50	UG/KG	12/29/2023	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	2500	50	UG/KG	12/29/2023	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	1400	50	UG/KG	12/29/2023	DLC
Hexachlorobutadiene	EPA-8260	U	1200	50	UG/KG	12/29/2023	DLC
Naphthalene	EPA-8260	5100	920	50	UG/KG	12/29/2023	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	700	50	UG/KG	12/29/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4 50X Dilution	EPA-8260	101	12/29/2023	DLC
Toluene-d8 50X Dilution	EPA-8260	92.8	12/29/2023	DLC
4-Bromofluorobenzene 50X Dilution	EPA-8260	102	12/29/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
E - Reported result is an estimate because it exceeds the calibration range.



CERTIFICATE OF ANALYSIS

CLIENT: Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012
DATE: 1/2/2024
ALS JOB#: EV24010001
ALS SAMPLE#: EV24010001-03
CLIENT CONTACT: Megan Richard
DATE RECEIVED: 01/02/2024
CLIENT PROJECT: MP-46
COLLECTION DATE: 12/27/2023 12:10:00 PM
CLIENT SAMPLE ID: B-20_24_20231227
WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	5300	100	UG/KG	12/29/2023	DLC
Chloromethane	EPA-8260	U	4900	100	UG/KG	12/29/2023	DLC
Vinyl Chloride	EPA-8260	U	1000	100	UG/KG	12/29/2023	DLC
Bromomethane	EPA-8260	U	5500	100	UG/KG	12/29/2023	DLC
Chloroethane	EPA-8260	U	4100	100	UG/KG	12/29/2023	DLC
Carbon Tetrachloride	EPA-8260	U	2700	100	UG/KG	12/29/2023	DLC
Trichlorofluoromethane	EPA-8260	U	3400	100	UG/KG	12/29/2023	DLC
Carbon Disulfide	EPA-8260	U	3700	100	UG/KG	12/29/2023	DLC
Acetone	EPA-8260	U	5800	100	UG/KG	12/29/2023	DLC
1,1-Dichloroethene	EPA-8260	U	5200	100	UG/KG	12/29/2023	DLC
Methylene Chloride	EPA-8260	U	45000	100	UG/KG	12/29/2023	DLC
Acrylonitrile	EPA-8260	U	5000	100	UG/KG	12/29/2023	DLC
Methyl T-Butyl Ether	EPA-8260	U	5400	100	UG/KG	12/29/2023	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	4900	100	UG/KG	12/29/2023	DLC
1,1-Dichloroethane	EPA-8260	U	2700	100	UG/KG	12/29/2023	DLC
2-Butanone	EPA-8260	U	5000	100	UG/KG	12/29/2023	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	3100	100	UG/KG	12/29/2023	DLC
2,2-Dichloropropane	EPA-8260	U	3900	100	UG/KG	12/29/2023	DLC
Bromochloromethane	EPA-8260	U	3600	100	UG/KG	12/29/2023	DLC
Chloroform	EPA-8260	U	5100	100	UG/KG	12/29/2023	DLC
1,1,1-Trichloroethane	EPA-8260	U	5400	100	UG/KG	12/29/2023	DLC
1,1-Dichloropropene	EPA-8260	U	4400	100	UG/KG	12/29/2023	DLC
1,2-Dichloroethane	EPA-8260	U	1600	100	UG/KG	12/29/2023	DLC
Benzene	EPA-8260	10000	2600	100	UG/KG	12/29/2023	DLC
Trichloroethene	EPA-8260	U	2900	100	UG/KG	12/29/2023	DLC
1,2-Dichloropropane	EPA-8260	U	1700	100	UG/KG	12/29/2023	DLC
Dibromomethane	EPA-8260	U	5300	100	UG/KG	12/29/2023	DLC
Bromodichloromethane	EPA-8260	U	1600	100	UG/KG	12/29/2023	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	3500	100	UG/KG	12/29/2023	DLC
4-Methyl-2-Pentanone	EPA-8260	U	6400	100	UG/KG	12/29/2023	DLC
Toluene	EPA-8260	680000 E	1600	100	UG/KG	12/29/2023	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2300	100	UG/KG	12/29/2023	DLC
1,1,2-Trichloroethane	EPA-8260	U	1300	100	UG/KG	12/29/2023	DLC
2-Hexanone	EPA-8260	U	9200	100	UG/KG	12/29/2023	DLC
1,3-Dichloropropane	EPA-8260	U	1000	100	UG/KG	12/29/2023	DLC
Tetrachloroethylene	EPA-8260	U	3400	100	UG/KG	12/29/2023	DLC
Dibromochloromethane	EPA-8260	U	1000	100	UG/KG	12/29/2023	DLC
1,2-Dibromoethane	EPA-8260	U	1300	100	UG/KG	12/29/2023	DLC
Chlorobenzene	EPA-8260	U	1500	100	UG/KG	12/29/2023	DLC



CERTIFICATE OF ANALYSIS

CLIENT: Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012
DATE: 1/2/2024
ALS JOB#: EV24010001
ALS SAMPLE#: EV24010001-03
CLIENT CONTACT: Megan Richard
DATE RECEIVED: 01/02/2024
CLIENT PROJECT: MP-46
COLLECTION DATE: 12/27/2023 12:10:00 PM
CLIENT SAMPLE ID: B-20_24_20231227
WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,1,1,2-Tetrachloroethane	EPA-8260	U	2000	100	UG/KG	12/29/2023	DLC
Ethylbenzene	EPA-8260	140000	2200	100	UG/KG	12/29/2023	DLC
m,p-Xylene	EPA-8260	500000	4300	100	UG/KG	12/29/2023	DLC
Styrene	EPA-8260	U	2100	100	UG/KG	12/29/2023	DLC
o-Xylene	EPA-8260	200000	2700	100	UG/KG	12/29/2023	DLC
Bromoform	EPA-8260	U	1900	100	UG/KG	12/29/2023	DLC
Isopropylbenzene	EPA-8260	12000	2000	100	UG/KG	12/29/2023	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	3800	100	UG/KG	12/29/2023	DLC
1,2,3-Trichloropropane	EPA-8260	U	1000	100	UG/KG	12/29/2023	DLC
Bromobenzene	EPA-8260	U	2400	100	UG/KG	12/29/2023	DLC
N-Propyl Benzene	EPA-8260	46000	2000	100	UG/KG	12/29/2023	DLC
2-Chlorotoluene	EPA-8260	U	2800	100	UG/KG	12/29/2023	DLC
1,3,5-Trimethylbenzene	EPA-8260	53000	2900	100	UG/KG	12/29/2023	DLC
4-Chlorotoluene	EPA-8260	U	1900	100	UG/KG	12/29/2023	DLC
T-Butyl Benzene	EPA-8260	U	5000	100	UG/KG	12/29/2023	DLC
1,2,4-Trimethylbenzene	EPA-8260	200000	2700	100	UG/KG	12/29/2023	DLC
S-Butyl Benzene	EPA-8260	U	3100	100	UG/KG	12/29/2023	DLC
P-Isopropyltoluene	EPA-8260	U	2500	100	UG/KG	12/29/2023	DLC
1,3-Dichlorobenzene	EPA-8260	U	1700	100	UG/KG	12/29/2023	DLC
1,4-Dichlorobenzene	EPA-8260	U	2100	100	UG/KG	12/29/2023	DLC
N-Butylbenzene	EPA-8260	7500	4000	100	UG/KG	12/29/2023	DLC
1,2-Dichlorobenzene	EPA-8260	U	1800	100	UG/KG	12/29/2023	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	5000	100	UG/KG	12/29/2023	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	3000	100	UG/KG	12/29/2023	DLC
Hexachlorobutadiene	EPA-8260	U	2700	100	UG/KG	12/29/2023	DLC
Naphthalene	EPA-8260	10000	2000	100	UG/KG	12/29/2023	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	1500	100	UG/KG	12/29/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4 100X Dilution	EPA-8260	99.4	12/29/2023	DLC
Toluene-d8 100X Dilution	EPA-8260	92.2	12/29/2023	DLC
4-Bromofluorobenzene 100X Dilution	EPA-8260	102	12/29/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
E - Reported result is an estimate because it exceeds the calibration range.



CERTIFICATE OF ANALYSIS

CLIENT: Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012
DATE: 1/2/2024
ALS JOB#: EV24010001
ALS SAMPLE#: EV24010001-04
CLIENT CONTACT: Megan Richard
DATE RECEIVED: 01/02/2024
CLIENT PROJECT: MP-46
COLLECTION DATE: 12/27/2023 12:15:00 PM
CLIENT SAMPLE ID: B-21_24_20231227
WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	4400	100	UG/KG	12/29/2023	DLC
Chloromethane	EPA-8260	U	4100	100	UG/KG	12/29/2023	DLC
Vinyl Chloride	EPA-8260	U	1000	100	UG/KG	12/29/2023	DLC
Bromomethane	EPA-8260	U	4600	100	UG/KG	12/29/2023	DLC
Chloroethane	EPA-8260	U	3400	100	UG/KG	12/29/2023	DLC
Carbon Tetrachloride	EPA-8260	U	2300	100	UG/KG	12/29/2023	DLC
Trichlorofluoromethane	EPA-8260	U	2800	100	UG/KG	12/29/2023	DLC
Carbon Disulfide	EPA-8260	U	3100	100	UG/KG	12/29/2023	DLC
Acetone	EPA-8260	U	5000	100	UG/KG	12/29/2023	DLC
1,1-Dichloroethene	EPA-8260	U	4300	100	UG/KG	12/29/2023	DLC
Methylene Chloride	EPA-8260	U	35000	100	UG/KG	12/29/2023	DLC
Acrylonitrile	EPA-8260	U	5000	100	UG/KG	12/29/2023	DLC
Methyl T-Butyl Ether	EPA-8260	U	4500	100	UG/KG	12/29/2023	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	4100	100	UG/KG	12/29/2023	DLC
1,1-Dichloroethane	EPA-8260	U	2300	100	UG/KG	12/29/2023	DLC
2-Butanone	EPA-8260	U	5000	100	UG/KG	12/29/2023	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	2600	100	UG/KG	12/29/2023	DLC
2,2-Dichloropropane	EPA-8260	U	3300	100	UG/KG	12/29/2023	DLC
Bromochloromethane	EPA-8260	U	3000	100	UG/KG	12/29/2023	DLC
Chloroform	EPA-8260	U	4200	100	UG/KG	12/29/2023	DLC
1,1,1-Trichloroethane	EPA-8260	U	4500	100	UG/KG	12/29/2023	DLC
1,1-Dichloropropene	EPA-8260	U	3700	100	UG/KG	12/29/2023	DLC
1,2-Dichloroethane	EPA-8260	U	1300	100	UG/KG	12/29/2023	DLC
Benzene	EPA-8260	11000	2200	100	UG/KG	12/29/2023	DLC
Trichloroethene	EPA-8260	U	2400	100	UG/KG	12/29/2023	DLC
1,2-Dichloropropane	EPA-8260	U	1400	100	UG/KG	12/29/2023	DLC
Dibromomethane	EPA-8260	U	4500	100	UG/KG	12/29/2023	DLC
Bromodichloromethane	EPA-8260	U	1400	100	UG/KG	12/29/2023	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	3000	100	UG/KG	12/29/2023	DLC
4-Methyl-2-Pentanone	EPA-8260	U	5300	100	UG/KG	12/29/2023	DLC
Toluene	EPA-8260	350000	1300	100	UG/KG	12/29/2023	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	1900	100	UG/KG	12/29/2023	DLC
1,1,2-Trichloroethane	EPA-8260	U	1100	100	UG/KG	12/29/2023	DLC
2-Hexanone	EPA-8260	U	7700	100	UG/KG	12/29/2023	DLC
1,3-Dichloropropane	EPA-8260	U	1000	100	UG/KG	12/29/2023	DLC
Tetrachloroethylene	EPA-8260	U	2800	100	UG/KG	12/29/2023	DLC
Dibromochloromethane	EPA-8260	U	1000	100	UG/KG	12/29/2023	DLC
1,2-Dibromoethane	EPA-8260	U	1000	100	UG/KG	12/29/2023	DLC
Chlorobenzene	EPA-8260	U	1200	100	UG/KG	12/29/2023	DLC



CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/2/2024
	18378-B Redmond Way	ALS JOB#:	EV24010001
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010001-04
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/02/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 12:15:00 PM
CLIENT SAMPLE ID	B-21_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,1,1,2-Tetrachloroethane	EPA-8260	U	1700	100	UG/KG	12/29/2023	DLC
Ethylbenzene	EPA-8260	89000	1800	100	UG/KG	12/29/2023	DLC
m,p-Xylene	EPA-8260	330000	3600	100	UG/KG	12/29/2023	DLC
Styrene	EPA-8260	U	1800	100	UG/KG	12/29/2023	DLC
o-Xylene	EPA-8260	130000	2300	100	UG/KG	12/29/2023	DLC
Bromoform	EPA-8260	U	1600	100	UG/KG	12/29/2023	DLC
Isopropylbenzene	EPA-8260	8400	1700	100	UG/KG	12/29/2023	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	3100	100	UG/KG	12/29/2023	DLC
1,2,3-Trichloropropane	EPA-8260	U	1000	100	UG/KG	12/29/2023	DLC
Bromobenzene	EPA-8260	U	2000	100	UG/KG	12/29/2023	DLC
N-Propyl Benzene	EPA-8260	34000	1700	100	UG/KG	12/29/2023	DLC
2-Chlorotoluene	EPA-8260	U	2300	100	UG/KG	12/29/2023	DLC
1,3,5-Trimethylbenzene	EPA-8260	45000	2400	100	UG/KG	12/29/2023	DLC
4-Chlorotoluene	EPA-8260	U	1600	100	UG/KG	12/29/2023	DLC
T-Butyl Benzene	EPA-8260	U	4200	100	UG/KG	12/29/2023	DLC
1,2,4-Trimethylbenzene	EPA-8260	170000	2300	100	UG/KG	12/29/2023	DLC
S-Butyl Benzene	EPA-8260	U	2600	100	UG/KG	12/29/2023	DLC
P-Isopropyltoluene	EPA-8260	U	2100	100	UG/KG	12/29/2023	DLC
1,3-Dichlorobenzene	EPA-8260	U	1400	100	UG/KG	12/29/2023	DLC
1,4-Dichlorobenzene	EPA-8260	U	1800	100	UG/KG	12/29/2023	DLC
N-Butylbenzene	EPA-8260	7400	3300	100	UG/KG	12/29/2023	DLC
1,2-Dichlorobenzene	EPA-8260	U	1500	100	UG/KG	12/29/2023	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	5000	100	UG/KG	12/29/2023	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2500	100	UG/KG	12/29/2023	DLC
Hexachlorobutadiene	EPA-8260	U	2300	100	UG/KG	12/29/2023	DLC
Naphthalene	EPA-8260	11000	1700	100	UG/KG	12/29/2023	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	1300	100	UG/KG	12/29/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4 100X Dilution	EPA-8260	101	12/29/2023	DLC
Toluene-d8 100X Dilution	EPA-8260	92.6	12/29/2023	DLC
4-Bromofluorobenzene 100X Dilution	EPA-8260	101	12/29/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/2/2024
	18378-B Redmond Way	ALS JOB#:	EV24010001
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010001-05
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/02/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 12:40:00 PM
CLIENT SAMPLE ID	SW-S-10_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	41	1	UG/KG	01/02/2024	DLC
Chloromethane	EPA-8260	U	37	1	UG/KG	01/02/2024	DLC
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	01/02/2024	DLC
Bromomethane	EPA-8260	U	42	1	UG/KG	01/02/2024	DLC
Chloroethane	EPA-8260	U	32	1	UG/KG	01/02/2024	DLC
Carbon Tetrachloride	EPA-8260	U	21	1	UG/KG	01/02/2024	DLC
Trichlorofluoromethane	EPA-8260	U	26	1	UG/KG	01/02/2024	DLC
Carbon Disulfide	EPA-8260	U	28	1	UG/KG	01/02/2024	DLC
Acetone	EPA-8260	U	50	1	UG/KG	01/02/2024	DLC
1,1-Dichloroethene	EPA-8260	U	40	1	UG/KG	01/02/2024	DLC
Methylene Chloride	EPA-8260	U	460	1	UG/KG	01/02/2024	DLC
Acrylonitrile	EPA-8260	U	50	1	UG/KG	01/02/2024	DLC
Methyl T-Butyl Ether	EPA-8260	U	41	1	UG/KG	01/02/2024	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	38	1	UG/KG	01/02/2024	DLC
1,1-Dichloroethane	EPA-8260	U	21	1	UG/KG	01/02/2024	DLC
2-Butanone	EPA-8260	U	50	1	UG/KG	01/02/2024	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	24	1	UG/KG	01/02/2024	DLC
2,2-Dichloropropane	EPA-8260	U	30	1	UG/KG	01/02/2024	DLC
Bromochloromethane	EPA-8260	U	28	1	UG/KG	01/02/2024	DLC
Chloroform	EPA-8260	U	39	1	UG/KG	01/02/2024	DLC
1,1,1-Trichloroethane	EPA-8260	U	41	1	UG/KG	01/02/2024	DLC
1,1-Dichloropropene	EPA-8260	U	34	1	UG/KG	01/02/2024	DLC
1,2-Dichloroethane	EPA-8260	U	12	1	UG/KG	01/02/2024	DLC
Benzene	EPA-8260	400	20	1	UG/KG	01/02/2024	DLC
Trichloroethene	EPA-8260	U	22	1	UG/KG	01/02/2024	DLC
1,2-Dichloropropane	EPA-8260	U	13	1	UG/KG	01/02/2024	DLC
Dibromomethane	EPA-8260	U	41	1	UG/KG	01/02/2024	DLC
Bromodichloromethane	EPA-8260	U	12	1	UG/KG	01/02/2024	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	27	1	UG/KG	01/02/2024	DLC
4-Methyl-2-Pentanone	EPA-8260	U	50	1	UG/KG	01/02/2024	DLC
Toluene	EPA-8260	25000	1200	100	UG/KG	12/29/2023	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	17	1	UG/KG	01/02/2024	DLC
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	01/02/2024	DLC
2-Hexanone	EPA-8260	U	71	1	UG/KG	01/02/2024	DLC
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	01/02/2024	DLC
Tetrachloroethylene	EPA-8260	U	26	1	UG/KG	01/02/2024	DLC
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	01/02/2024	DLC
1,2-Dibromoethane	EPA-8260	U	9.6	1	UG/KG	01/02/2024	DLC
Chlorobenzene	EPA-8260	U	11	1	UG/KG	01/02/2024	DLC



CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/2/2024
	18378-B Redmond Way	ALS JOB#:	EV24010001
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010001-05
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/02/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 12:40:00 PM
CLIENT SAMPLE ID	SW-S-10_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,1,1,2-Tetrachloroethane	EPA-8260	U	16	1	UG/KG	01/02/2024	DLC
Ethylbenzene	EPA-8260	6400	1700	100	UG/KG	12/29/2023	DLC
m,p-Xylene	EPA-8260	24000	3300	100	UG/KG	12/29/2023	DLC
Styrene	EPA-8260	U	16	1	UG/KG	01/02/2024	DLC
o-Xylene	EPA-8260	8400	2100	100	UG/KG	12/29/2023	DLC
Bromoform	EPA-8260	U	15	1	UG/KG	01/02/2024	DLC
Isopropylbenzene	EPA-8260	560	15	1	UG/KG	01/02/2024	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	29	1	UG/KG	01/02/2024	DLC
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	01/02/2024	DLC
Bromobenzene	EPA-8260	U	19	1	UG/KG	01/02/2024	DLC
N-Propyl Benzene	EPA-8260	2100	16	1	UG/KG	01/02/2024	DLC
2-Chlorotoluene	EPA-8260	U	21	1	UG/KG	01/02/2024	DLC
1,3,5-Trimethylbenzene	EPA-8260	2600	22	1	UG/KG	01/02/2024	DLC
4-Chlorotoluene	EPA-8260	U	15	1	UG/KG	01/02/2024	DLC
T-Butyl Benzene	EPA-8260	U	39	1	UG/KG	01/02/2024	DLC
1,2,4-Trimethylbenzene	EPA-8260	10000	2100	100	UG/KG	12/29/2023	DLC
S-Butyl Benzene	EPA-8260	150	23	1	UG/KG	01/02/2024	DLC
P-Isopropyltoluene	EPA-8260	70	19	1	UG/KG	01/02/2024	DLC
1,3-Dichlorobenzene	EPA-8260	U	13	1	UG/KG	01/02/2024	DLC
1,4-Dichlorobenzene	EPA-8260	U	16	1	UG/KG	01/02/2024	DLC
N-Butylbenzene	EPA-8260	470	30	1	UG/KG	01/02/2024	DLC
1,2-Dichlorobenzene	EPA-8260	U	14	1	UG/KG	01/02/2024	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	01/02/2024	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	23	1	UG/KG	01/02/2024	DLC
Hexachlorobutadiene	EPA-8260	U	21	1	UG/KG	01/02/2024	DLC
Naphthalene	EPA-8260	210	16	1	UG/KG	01/02/2024	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	12	1	UG/KG	01/02/2024	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4 100X Dilution	EPA-8260	101	12/29/2023	DLC
1,2-Dichloroethane-d4	EPA-8260	94.9	01/02/2024	DLC
Toluene-d8 100X Dilution	EPA-8260	95.8	12/29/2023	DLC
Toluene-d8	EPA-8260	87.2	01/02/2024	DLC
4-Bromofluorobenzene 100X Dilution	EPA-8260	102	12/29/2023	DLC
4-Bromofluorobenzene	EPA-8260	99.9	01/02/2024	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT: Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012
DATE: 1/2/2024
ALS JOB#: EV24010001
ALS SAMPLE#: EV24010001-06
CLIENT CONTACT: Megan Richard
DATE RECEIVED: 01/02/2024
CLIENT PROJECT: MP-46
COLLECTION DATE: 12/27/2023 1:05:00 PM
CLIENT SAMPLE ID: B-19_24_20231227
WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	5700	100	UG/KG	12/29/2023	DLC
Chloromethane	EPA-8260	U	5200	100	UG/KG	12/29/2023	DLC
Vinyl Chloride	EPA-8260	U	1000	100	UG/KG	12/29/2023	DLC
Bromomethane	EPA-8260	U	5900	100	UG/KG	12/29/2023	DLC
Chloroethane	EPA-8260	U	4400	100	UG/KG	12/29/2023	DLC
Carbon Tetrachloride	EPA-8260	U	2900	100	UG/KG	12/29/2023	DLC
Trichlorofluoromethane	EPA-8260	U	3600	100	UG/KG	12/29/2023	DLC
Carbon Disulfide	EPA-8260	U	3900	100	UG/KG	12/29/2023	DLC
Acetone	EPA-8260	U	6200	100	UG/KG	12/29/2023	DLC
1,1-Dichloroethene	EPA-8260	U	5600	100	UG/KG	12/29/2023	DLC
Methylene Chloride	EPA-8260	U	28000	100	UG/KG	12/29/2023	DLC
Acrylonitrile	EPA-8260	U	5000	100	UG/KG	12/29/2023	DLC
Methyl T-Butyl Ether	EPA-8260	U	5800	100	UG/KG	12/29/2023	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	5300	100	UG/KG	12/29/2023	DLC
1,1-Dichloroethane	EPA-8260	U	2900	100	UG/KG	12/29/2023	DLC
2-Butanone	EPA-8260	U	5000	100	UG/KG	12/29/2023	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	3300	100	UG/KG	12/29/2023	DLC
2,2-Dichloropropane	EPA-8260	U	4200	100	UG/KG	12/29/2023	DLC
Bromochloromethane	EPA-8260	U	3900	100	UG/KG	12/29/2023	DLC
Chloroform	EPA-8260	U	5400	100	UG/KG	12/29/2023	DLC
1,1,1-Trichloroethane	EPA-8260	U	5800	100	UG/KG	12/29/2023	DLC
1,1-Dichloropropene	EPA-8260	U	4700	100	UG/KG	12/29/2023	DLC
1,2-Dichloroethane	EPA-8260	U	1700	100	UG/KG	12/29/2023	DLC
Benzene	EPA-8260	U	2800	100	UG/KG	12/29/2023	DLC
Trichloroethene	EPA-8260	U	3100	100	UG/KG	12/29/2023	DLC
1,2-Dichloropropane	EPA-8260	U	1800	100	UG/KG	12/29/2023	DLC
Dibromomethane	EPA-8260	U	5700	100	UG/KG	12/29/2023	DLC
Bromodichloromethane	EPA-8260	U	1700	100	UG/KG	12/29/2023	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	3800	100	UG/KG	12/29/2023	DLC
4-Methyl-2-Pentanone	EPA-8260	U	6800	100	UG/KG	12/29/2023	DLC
Toluene	EPA-8260	130000	1700	100	UG/KG	12/29/2023	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2400	100	UG/KG	12/29/2023	DLC
1,1,2-Trichloroethane	EPA-8260	U	1400	100	UG/KG	12/29/2023	DLC
2-Hexanone	EPA-8260	U	9900	100	UG/KG	12/29/2023	DLC
1,3-Dichloropropane	EPA-8260	U	1000	100	UG/KG	12/29/2023	DLC
Tetrachloroethylene	EPA-8260	U	3600	100	UG/KG	12/29/2023	DLC
Dibromochloromethane	EPA-8260	U	1000	100	UG/KG	12/29/2023	DLC
1,2-Dibromoethane	EPA-8260	U	1300	100	UG/KG	12/29/2023	DLC
Chlorobenzene	EPA-8260	U	1600	100	UG/KG	12/29/2023	DLC



CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/2/2024
	18378-B Redmond Way	ALS JOB#:	EV24010001
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010001-06
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/02/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 1:05:00 PM
CLIENT SAMPLE ID	B-19_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,1,1,2-Tetrachloroethane	EPA-8260	U	2200	100	UG/KG	12/29/2023	DLC
Ethylbenzene	EPA-8260	41000	2400	100	UG/KG	12/29/2023	DLC
m,p-Xylene	EPA-8260	160000	4700	100	UG/KG	12/29/2023	DLC
Styrene	EPA-8260	U	2300	100	UG/KG	12/29/2023	DLC
o-Xylene	EPA-8260	65000	2900	100	UG/KG	12/29/2023	DLC
Bromoform	EPA-8260	U	2000	100	UG/KG	12/29/2023	DLC
Isopropylbenzene	EPA-8260	4400	2200	100	UG/KG	12/29/2023	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	4000	100	UG/KG	12/29/2023	DLC
1,2,3-Trichloropropane	EPA-8260	U	1000	100	UG/KG	12/29/2023	DLC
Bromobenzene	EPA-8260	U	2600	100	UG/KG	12/29/2023	DLC
N-Propyl Benzene	EPA-8260	18000	2200	100	UG/KG	12/29/2023	DLC
2-Chlorotoluene	EPA-8260	U	3000	100	UG/KG	12/29/2023	DLC
1,3,5-Trimethylbenzene	EPA-8260	24000	3100	100	UG/KG	12/29/2023	DLC
4-Chlorotoluene	EPA-8260	U	2100	100	UG/KG	12/29/2023	DLC
T-Butyl Benzene	EPA-8260	U	5400	100	UG/KG	12/29/2023	DLC
1,2,4-Trimethylbenzene	EPA-8260	88000	2900	100	UG/KG	12/29/2023	DLC
S-Butyl Benzene	EPA-8260	U	3300	100	UG/KG	12/29/2023	DLC
P-Isopropyltoluene	EPA-8260	U	2700	100	UG/KG	12/29/2023	DLC
1,3-Dichlorobenzene	EPA-8260	U	1800	100	UG/KG	12/29/2023	DLC
1,4-Dichlorobenzene	EPA-8260	U	2300	100	UG/KG	12/29/2023	DLC
N-Butylbenzene	EPA-8260	U	4200	100	UG/KG	12/29/2023	DLC
1,2-Dichlorobenzene	EPA-8260	U	2000	100	UG/KG	12/29/2023	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	5000	100	UG/KG	12/29/2023	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	3300	100	UG/KG	12/29/2023	DLC
Hexachlorobutadiene	EPA-8260	U	2900	100	UG/KG	12/29/2023	DLC
Naphthalene	EPA-8260	8000	2200	100	UG/KG	12/29/2023	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	1700	100	UG/KG	12/29/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4 100X Dilution	EPA-8260	101	12/29/2023	DLC
Toluene-d8 100X Dilution	EPA-8260	93.7	12/29/2023	DLC
4-Bromofluorobenzene 100X Dilution	EPA-8260	101	12/29/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT: Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012
DATE: 1/2/2024
ALS JOB#: EV24010001
ALS SAMPLE#: EV24010001-07
CLIENT CONTACT: Megan Richard
DATE RECEIVED: 01/02/2024
CLIENT PROJECT: MP-46
COLLECTION DATE: 12/27/2023 1:15:00 PM
CLIENT SAMPLE ID: B-12_24_20231227
WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	6700	100	UG/KG	12/29/2023	DLC
Chloromethane	EPA-8260	U	6200	100	UG/KG	12/29/2023	DLC
Vinyl Chloride	EPA-8260	U	1000	100	UG/KG	12/29/2023	DLC
Bromomethane	EPA-8260	U	7100	100	UG/KG	12/29/2023	DLC
Chloroethane	EPA-8260	U	5200	100	UG/KG	12/29/2023	DLC
Carbon Tetrachloride	EPA-8260	U	3400	100	UG/KG	12/29/2023	DLC
Trichlorofluoromethane	EPA-8260	U	4300	100	UG/KG	12/29/2023	DLC
Carbon Disulfide	EPA-8260	U	4700	100	UG/KG	12/29/2023	DLC
Acetone	EPA-8260	U	7300	100	UG/KG	12/29/2023	DLC
1,1-Dichloroethene	EPA-8260	U	6600	100	UG/KG	12/29/2023	DLC
Methylene Chloride	EPA-8260	U	58000	100	UG/KG	12/29/2023	DLC
Acrylonitrile	EPA-8260	U	5000	100	UG/KG	12/29/2023	DLC
Methyl T-Butyl Ether	EPA-8260	U	6900	100	UG/KG	12/29/2023	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	6300	100	UG/KG	12/29/2023	DLC
1,1-Dichloroethane	EPA-8260	U	3500	100	UG/KG	12/29/2023	DLC
2-Butanone	EPA-8260	U	5000	100	UG/KG	12/29/2023	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	3900	100	UG/KG	12/29/2023	DLC
2,2-Dichloropropane	EPA-8260	U	5000	100	UG/KG	12/29/2023	DLC
Bromochloromethane	EPA-8260	U	4600	100	UG/KG	12/29/2023	DLC
Chloroform	EPA-8260	U	6400	100	UG/KG	12/29/2023	DLC
1,1,1-Trichloroethane	EPA-8260	U	6900	100	UG/KG	12/29/2023	DLC
1,1-Dichloropropene	EPA-8260	U	5600	100	UG/KG	12/29/2023	DLC
1,2-Dichloroethane	EPA-8260	U	2000	100	UG/KG	12/29/2023	DLC
Benzene	EPA-8260	18000	3400	100	UG/KG	12/29/2023	DLC
Trichloroethene	EPA-8260	U	3700	100	UG/KG	12/29/2023	DLC
1,2-Dichloropropane	EPA-8260	U	2100	100	UG/KG	12/29/2023	DLC
Dibromomethane	EPA-8260	U	6800	100	UG/KG	12/29/2023	DLC
Bromodichloromethane	EPA-8260	U	2100	100	UG/KG	12/29/2023	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	4500	100	UG/KG	12/29/2023	DLC
4-Methyl-2-Pentanone	EPA-8260	U	8100	100	UG/KG	12/29/2023	DLC
Toluene	EPA-8260	510000	2000	100	UG/KG	12/29/2023	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2900	100	UG/KG	12/29/2023	DLC
1,1,2-Trichloroethane	EPA-8260	U	1700	100	UG/KG	12/29/2023	DLC
2-Hexanone	EPA-8260	U	12000	100	UG/KG	12/29/2023	DLC
1,3-Dichloropropane	EPA-8260	U	1100	100	UG/KG	12/29/2023	DLC
Tetrachloroethylene	EPA-8260	U	4300	100	UG/KG	12/29/2023	DLC
Dibromochloromethane	EPA-8260	U	1000	100	UG/KG	12/29/2023	DLC
1,2-Dibromoethane	EPA-8260	U	1600	100	UG/KG	12/29/2023	DLC
Chlorobenzene	EPA-8260	U	1900	100	UG/KG	12/29/2023	DLC



CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/2/2024
	18378-B Redmond Way	ALS JOB#:	EV24010001
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV24010001-07
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	01/02/2024
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 1:15:00 PM
CLIENT SAMPLE ID	B-12_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,1,1,2-Tetrachloroethane	EPA-8260	U	2600	100	UG/KG	12/29/2023	DLC
Ethylbenzene	EPA-8260	110000	2800	100	UG/KG	12/29/2023	DLC
m,p-Xylene	EPA-8260	420000	5500	100	UG/KG	12/29/2023	DLC
Styrene	EPA-8260	U	2700	100	UG/KG	12/29/2023	DLC
o-Xylene	EPA-8260	160000	3500	100	UG/KG	12/29/2023	DLC
Bromoform	EPA-8260	U	2400	100	UG/KG	12/29/2023	DLC
Isopropylbenzene	EPA-8260	9400	2600	100	UG/KG	12/29/2023	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	4800	100	UG/KG	12/29/2023	DLC
1,2,3-Trichloropropane	EPA-8260	U	1000	100	UG/KG	12/29/2023	DLC
Bromobenzene	EPA-8260	U	3100	100	UG/KG	12/29/2023	DLC
N-Propyl Benzene	EPA-8260	38000	2600	100	UG/KG	12/29/2023	DLC
2-Chlorotoluene	EPA-8260	U	3500	100	UG/KG	12/29/2023	DLC
1,3,5-Trimethylbenzene	EPA-8260	50000	3700	100	UG/KG	12/29/2023	DLC
4-Chlorotoluene	EPA-8260	U	2500	100	UG/KG	12/29/2023	DLC
T-Butyl Benzene	EPA-8260	U	6400	100	UG/KG	12/29/2023	DLC
1,2,4-Trimethylbenzene	EPA-8260	180000	3500	100	UG/KG	12/29/2023	DLC
S-Butyl Benzene	EPA-8260	U	3900	100	UG/KG	12/29/2023	DLC
P-Isopropyltoluene	EPA-8260	U	3200	100	UG/KG	12/29/2023	DLC
1,3-Dichlorobenzene	EPA-8260	U	2200	100	UG/KG	12/29/2023	DLC
1,4-Dichlorobenzene	EPA-8260	U	2700	100	UG/KG	12/29/2023	DLC
N-Butylbenzene	EPA-8260	8100	5100	100	UG/KG	12/29/2023	DLC
1,2-Dichlorobenzene	EPA-8260	U	2300	100	UG/KG	12/29/2023	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	5000	100	UG/KG	12/29/2023	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	3900	100	UG/KG	12/29/2023	DLC
Hexachlorobutadiene	EPA-8260	U	3500	100	UG/KG	12/29/2023	DLC
Naphthalene	EPA-8260	13000	2600	100	UG/KG	12/29/2023	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2000	100	UG/KG	12/29/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4 100X Dilution	EPA-8260	102	12/29/2023	DLC
Toluene-d8 100X Dilution	EPA-8260	92.4	12/29/2023	DLC
4-Bromofluorobenzene 100X Dilution	EPA-8260	102	12/29/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT: Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012
CLIENT CONTACT: Megan Richard
CLIENT PROJECT: MP-46

DATE: 1/2/2024
ALS SDG#: EV24010001
WDOE ACCREDITATION: C601

LABORATORY BLANK RESULTS

MB-122923S - Batch 205534 - Soil by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Chloromethane	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Vinyl Chloride	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Bromomethane	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Chloroethane	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Carbon Tetrachloride	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Trichlorofluoromethane	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Carbon Disulfide	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Acetone	EPA-8260	U	UG/KG	50	12/29/2023	DLC
1,1-Dichloroethene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Methylene Chloride	EPA-8260	U	UG/KG	460	12/29/2023	DLC
Acrylonitrile	EPA-8260	U	UG/KG	50	12/29/2023	DLC
Methyl T-Butyl Ether	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
1,1-Dichloroethane	EPA-8260	U	UG/KG	10	12/29/2023	DLC
2-Butanone	EPA-8260	U	UG/KG	50	12/29/2023	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
2,2-Dichloropropane	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Bromochloromethane	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Chloroform	EPA-8260	U	UG/KG	10	12/29/2023	DLC
1,1,1-Trichloroethane	EPA-8260	U	UG/KG	10	12/29/2023	DLC
1,1-Dichloropropene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
1,2-Dichloroethane	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Benzene	EPA-8260	U	UG/KG	5.0	12/29/2023	DLC
Trichloroethene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
1,2-Dichloropropane	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Dibromomethane	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Bromodichloromethane	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
4-Methyl-2-Pentanone	EPA-8260	U	UG/KG	50	12/29/2023	DLC
Toluene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
1,1,2-Trichloroethane	EPA-8260	U	UG/KG	10	12/29/2023	DLC
2-Hexanone	EPA-8260	U	UG/KG	50	12/29/2023	DLC
1,3-Dichloropropane	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Tetrachloroethylene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Dibromochloromethane	EPA-8260	U	UG/KG	10	12/29/2023	DLC
1,2-Dibromoethane	EPA-8260	U	UG/KG	5.0	12/29/2023	DLC
Chlorobenzene	EPA-8260	U	UG/KG	10	12/29/2023	DLC



CERTIFICATE OF ANALYSIS

CLIENT: Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012
DATE: 1/2/2024
ALS SDG#: EV24010001
WDOE ACCREDITATION: C601

CLIENT CONTACT: Megan Richard
CLIENT PROJECT: MP-46

LABORATORY BLANK RESULTS

MB-122923S - Batch 205534 - Soil by EPA-8260

1,1,1,2-Tetrachloroethane	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Ethylbenzene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
m,p-Xylene	EPA-8260	U	UG/KG	20	12/29/2023	DLC
Styrene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
o-Xylene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Bromoform	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Isopropylbenzene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	UG/KG	10	12/29/2023	DLC
1,2,3-Trichloropropane	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Bromobenzene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
N-Propyl Benzene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
2-Chlorotoluene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
1,3,5-Trimethylbenzene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
4-Chlorotoluene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
T-Butyl Benzene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
1,2,4-Trimethylbenzene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
S-Butyl Benzene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
P-Isopropyltoluene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
1,3-Dichlorobenzene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
1,4-Dichlorobenzene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
N-Butylbenzene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
1,2-Dichlorobenzene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	UG/KG	50	12/29/2023	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Hexachlorobutadiene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
Naphthalene	EPA-8260	U	UG/KG	10	12/29/2023	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	UG/KG	10	12/29/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT: Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012
CLIENT CONTACT: Megan Richard
CLIENT PROJECT: MP-46

DATE: 1/2/2024
ALS SDG#: EV24010001
WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 205534 - Soil by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Dichlorodifluoromethane - BS	EPA-8260	122			50	150	12/29/2023	DLC
Dichlorodifluoromethane - BSD	EPA-8260	118	3		50	150	12/29/2023	DLC
Chloromethane - BS	EPA-8260	131			50	150	12/29/2023	DLC
Chloromethane - BSD	EPA-8260	125	5		50	150	12/29/2023	DLC
Vinyl Chloride - BS	EPA-8260	116			50	150	12/29/2023	DLC
Vinyl Chloride - BSD	EPA-8260	114	2		50	150	12/29/2023	DLC
Bromomethane - BS	EPA-8260	110			50	150	12/29/2023	DLC
Bromomethane - BSD	EPA-8260	114	3		50	150	12/29/2023	DLC
Chloroethane - BS	EPA-8260	106			50	150	12/29/2023	DLC
Chloroethane - BSD	EPA-8260	104	2		50	150	12/29/2023	DLC
Carbon Tetrachloride - BS	EPA-8260	99.7			50	150	12/29/2023	DLC
Carbon Tetrachloride - BSD	EPA-8260	99.9	0		50	150	12/29/2023	DLC
Trichlorofluoromethane - BS	EPA-8260	109			50	150	12/29/2023	DLC
Trichlorofluoromethane - BSD	EPA-8260	108	0		50	150	12/29/2023	DLC
Carbon Disulfide - BS	EPA-8260	116			50	150	12/29/2023	DLC
Carbon Disulfide - BSD	EPA-8260	115	1		50	150	12/29/2023	DLC
Acetone - BS	EPA-8260	284		SQ3	50	150	12/29/2023	DLC
Acetone - BSD	EPA-8260	221	25	SQ3	50	150	12/29/2023	DLC
1,1-Dichloroethene - BS	EPA-8260	106			70	130	12/29/2023	DLC
1,1-Dichloroethene - BSD	EPA-8260	105	1		70	130	12/29/2023	DLC
Methylene Chloride - BS	EPA-8260	141			50	150	12/29/2023	DLC
Methylene Chloride - BSD	EPA-8260	135	4		50	150	12/29/2023	DLC
Acrylonitrile - BS	EPA-8260	107			50	150	12/29/2023	DLC
Acrylonitrile - BSD	EPA-8260	106	1		50	150	12/29/2023	DLC
Methyl T-Butyl Ether - BS	EPA-8260	119			50	150	12/29/2023	DLC
Methyl T-Butyl Ether - BSD	EPA-8260	121	2		50	150	12/29/2023	DLC
Trans-1,2-Dichloroethene - BS	EPA-8260	106			50	150	12/29/2023	DLC
Trans-1,2-Dichloroethene - BSD	EPA-8260	105	1		50	150	12/29/2023	DLC
1,1-Dichloroethane - BS	EPA-8260	103			50	150	12/29/2023	DLC
1,1-Dichloroethane - BSD	EPA-8260	102	1		50	150	12/29/2023	DLC
2-Butanone - BS	EPA-8260	182		SQ3	50	150	12/29/2023	DLC
2-Butanone - BSD	EPA-8260	164	11	SQ3	50	150	12/29/2023	DLC
Cis-1,2-Dichloroethene - BS	EPA-8260	104			50	150	12/29/2023	DLC
Cis-1,2-Dichloroethene - BSD	EPA-8260	103	1		50	150	12/29/2023	DLC
2,2-Dichloropropane - BS	EPA-8260	110			50	150	12/29/2023	DLC
2,2-Dichloropropane - BSD	EPA-8260	108	3		50	150	12/29/2023	DLC
Bromochloromethane - BS	EPA-8260	107			50	150	12/29/2023	DLC
Bromochloromethane - BSD	EPA-8260	106	0		50	150	12/29/2023	DLC
Chloroform - BS	EPA-8260	107			50	150	12/29/2023	DLC



CERTIFICATE OF ANALYSIS

CLIENT: Antea Group
 18378-B Redmond Way
 Redmond, WA 98052-5012
CLIENT CONTACT: Megan Richard
CLIENT PROJECT: MP-46

DATE: 1/2/2024
ALS SDG#: EV24010001
WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Chloroform - BSD	EPA-8260	106	1		50	150	12/29/2023	DLC
1,1,1-Trichloroethane - BS	EPA-8260	101			50	150	12/29/2023	DLC
1,1,1-Trichloroethane - BSD	EPA-8260	101	0		50	150	12/29/2023	DLC
1,1-Dichloropropene - BS	EPA-8260	105			50	150	12/29/2023	DLC
1,1-Dichloropropene - BSD	EPA-8260	103	2		50	150	12/29/2023	DLC
1,2-Dichloroethane - BS	EPA-8260	93.5			50	150	12/29/2023	DLC
1,2-Dichloroethane - BSD	EPA-8260	93.2	0		50	150	12/29/2023	DLC
Benzene - BS	EPA-8260	93.7			75	138	12/29/2023	DLC
Benzene - BSD	EPA-8260	91.9	2		75	138	12/29/2023	DLC
Trichloroethene - BS	EPA-8260	92.9			75	136	12/29/2023	DLC
Trichloroethene - BSD	EPA-8260	91.1	2		75	136	12/29/2023	DLC
1,2-Dichloropropane - BS	EPA-8260	98.5			50	150	12/29/2023	DLC
1,2-Dichloropropane - BSD	EPA-8260	96.1	2		50	150	12/29/2023	DLC
Dibromomethane - BS	EPA-8260	103			50	150	12/29/2023	DLC
Dibromomethane - BSD	EPA-8260	104	1		50	150	12/29/2023	DLC
Bromodichloromethane - BS	EPA-8260	96.2			50	150	12/29/2023	DLC
Bromodichloromethane - BSD	EPA-8260	95.2	1		50	150	12/29/2023	DLC
Trans-1,3-Dichloropropene - BS	EPA-8260	99.2			50	150	12/29/2023	DLC
Trans-1,3-Dichloropropene - BSD	EPA-8260	101	2		50	150	12/29/2023	DLC
4-Methyl-2-Pentanone - BS	EPA-8260	121			50	150	12/29/2023	DLC
4-Methyl-2-Pentanone - BSD	EPA-8260	127	5		50	150	12/29/2023	DLC
Toluene - BS	EPA-8260	105			71.6	122.1	12/29/2023	DLC
Toluene - BSD	EPA-8260	101	4		71.6	122.1	12/29/2023	DLC
Cis-1,3-Dichloropropene - BS	EPA-8260	104			50	150	12/29/2023	DLC
Cis-1,3-Dichloropropene - BSD	EPA-8260	102	1		50	150	12/29/2023	DLC
1,1,2-Trichloroethane - BS	EPA-8260	97.1			50	150	12/29/2023	DLC
1,1,2-Trichloroethane - BSD	EPA-8260	97.1	0		50	150	12/29/2023	DLC
2-Hexanone - BS	EPA-8260	147			50	150	12/29/2023	DLC
2-Hexanone - BSD	EPA-8260	134	9		50	150	12/29/2023	DLC
1,3-Dichloropropane - BS	EPA-8260	98.1			50	150	12/29/2023	DLC
1,3-Dichloropropane - BSD	EPA-8260	98.9	1		50	150	12/29/2023	DLC
Tetrachloroethylene - BS	EPA-8260	80.6			50	150	12/29/2023	DLC
Tetrachloroethylene - BSD	EPA-8260	81.0	0		50	150	12/29/2023	DLC
Dibromochloromethane - BS	EPA-8260	95.6			50	150	12/29/2023	DLC
Dibromochloromethane - BSD	EPA-8260	97.1	2		50	150	12/29/2023	DLC
1,2-Dibromoethane - BS	EPA-8260	100			50	150	12/29/2023	DLC
1,2-Dibromoethane - BSD	EPA-8260	103	2		50	150	12/29/2023	DLC
Chlorobenzene - BS	EPA-8260	89.2			79	128	12/29/2023	DLC
Chlorobenzene - BSD	EPA-8260	88.0	1		79	128	12/29/2023	DLC
1,1,1,2-Tetrachloroethane - BS	EPA-8260	87.8			50	150	12/29/2023	DLC



CERTIFICATE OF ANALYSIS

CLIENT: Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012

CLIENT CONTACT: Megan Richard
CLIENT PROJECT: MP-46

DATE: 1/2/2024
ALS SDG#: EV24010001
WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
1,1,1,2-Tetrachloroethane - BSD	EPA-8260	88.7	1		50	150	12/29/2023	DLC
Ethylbenzene - BS	EPA-8260	92.7			50	150	12/29/2023	DLC
Ethylbenzene - BSD	EPA-8260	91.3	1		50	150	12/29/2023	DLC
m,p-Xylene - BS	EPA-8260	96.1			50	150	12/29/2023	DLC
m,p-Xylene - BSD	EPA-8260	94.0	2		50	150	12/29/2023	DLC
Styrene - BS	EPA-8260	93.4			50	150	12/29/2023	DLC
Styrene - BSD	EPA-8260	92.6	1		50	150	12/29/2023	DLC
o-Xylene - BS	EPA-8260	93.5			50	150	12/29/2023	DLC
o-Xylene - BSD	EPA-8260	91.2	2		50	150	12/29/2023	DLC
Bromoform - BS	EPA-8260	104			50	150	12/29/2023	DLC
Bromoform - BSD	EPA-8260	106	2		50	150	12/29/2023	DLC
Isopropylbenzene - BS	EPA-8260	89.0			50	150	12/29/2023	DLC
Isopropylbenzene - BSD	EPA-8260	87.8	1		50	150	12/29/2023	DLC
1,1,2,2-Tetrachloroethane - BS	EPA-8260	104			50	150	12/29/2023	DLC
1,1,2,2-Tetrachloroethane - BSD	EPA-8260	107	3		50	150	12/29/2023	DLC
1,2,3-Trichloropropane - BS	EPA-8260	102			50	150	12/29/2023	DLC
1,2,3-Trichloropropane - BSD	EPA-8260	105	3		50	150	12/29/2023	DLC
Bromobenzene - BS	EPA-8260	89.0			50	150	12/29/2023	DLC
Bromobenzene - BSD	EPA-8260	88.1	1		50	150	12/29/2023	DLC
N-Propyl Benzene - BS	EPA-8260	91.1			50	150	12/29/2023	DLC
N-Propyl Benzene - BSD	EPA-8260	88.3	3		50	150	12/29/2023	DLC
2-Chlorotoluene - BS	EPA-8260	89.2			50	150	12/29/2023	DLC
2-Chlorotoluene - BSD	EPA-8260	87.1	2		50	150	12/29/2023	DLC
1,3,5-Trimethylbenzene - BS	EPA-8260	88.0			50	150	12/29/2023	DLC
1,3,5-Trimethylbenzene - BSD	EPA-8260	86.2	2		50	150	12/29/2023	DLC
4-Chlorotoluene - BS	EPA-8260	90.3			50	150	12/29/2023	DLC
4-Chlorotoluene - BSD	EPA-8260	88.4	2		50	150	12/29/2023	DLC
T-Butyl Benzene - BS	EPA-8260	89.8			50	150	12/29/2023	DLC
T-Butyl Benzene - BSD	EPA-8260	88.6	1		50	150	12/29/2023	DLC
1,2,4-Trimethylbenzene - BS	EPA-8260	96.6			50	150	12/29/2023	DLC
1,2,4-Trimethylbenzene - BSD	EPA-8260	93.3	4		50	150	12/29/2023	DLC
S-Butyl Benzene - BS	EPA-8260	89.2			50	150	12/29/2023	DLC
S-Butyl Benzene - BSD	EPA-8260	86.9	3		50	150	12/29/2023	DLC
P-Isopropyltoluene - BS	EPA-8260	89.4			50	150	12/29/2023	DLC
P-Isopropyltoluene - BSD	EPA-8260	87.8	2		50	150	12/29/2023	DLC
1,3-Dichlorobenzene - BS	EPA-8260	88.2			50	150	12/29/2023	DLC
1,3-Dichlorobenzene - BSD	EPA-8260	87.1	1		50	150	12/29/2023	DLC
1,4-Dichlorobenzene - BS	EPA-8260	87.9			50	150	12/29/2023	DLC
1,4-Dichlorobenzene - BSD	EPA-8260	87.4	1		50	150	12/29/2023	DLC
N-Butylbenzene - BS	EPA-8260	89.8			50	150	12/29/2023	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	1/2/2024
	18378-B Redmond Way	ALS SDG#:	EV24010001
	Redmond, WA 98052-5012	WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Megan Richard		
CLIENT PROJECT:	MP-46		

LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
N-Butylbenzene - BSD	EPA-8260	88.3	2		50	150	12/29/2023	DLC
1,2-Dichlorobenzene - BS	EPA-8260	89.9			50	150	12/29/2023	DLC
1,2-Dichlorobenzene - BSD	EPA-8260	89.5	0		50	150	12/29/2023	DLC
1,2-Dibromo 3-Chloropropane - BS	EPA-8260	106			50	150	12/29/2023	DLC
1,2-Dibromo 3-Chloropropane - BSD	EPA-8260	114	8		50	150	12/29/2023	DLC
1,2,4-Trichlorobenzene - BS	EPA-8260	88.5			50	150	12/29/2023	DLC
1,2,4-Trichlorobenzene - BSD	EPA-8260	90.6	2		50	150	12/29/2023	DLC
Hexachlorobutadiene - BS	EPA-8260	85.8			50	150	12/29/2023	DLC
Hexachlorobutadiene - BSD	EPA-8260	86.4	1		50	150	12/29/2023	DLC
Naphthalene - BS	EPA-8260	82.6			50	150	12/29/2023	DLC
Naphthalene - BSD	EPA-8260	92.1	11		50	150	12/29/2023	DLC
1,2,3-Trichlorobenzene - BS	EPA-8260	71.8			50	150	12/29/2023	DLC
1,2,3-Trichlorobenzene - BSD	EPA-8260	79.3	10		50	150	12/29/2023	DLC

SQ3 - Spike outside of control limits due to sporadic marginal failure. All other spikes in extraction fraction within control limits. No corrective action taken.

APPROVED BY



Rob Greer
Laboratory Director



ALS Environmental
8620 Holly Drive, Suite 100
Everett, WA 98208
Phone (425) 356-2600
Fax (425) 356-2626
http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

ALS-Inh# (Laboratory Use Only)

EV24010001

Date 12/27/23 Page 1 Of

PROJECT ID: <u>MP-46</u>					ANALYSIS REQUESTED															OTHER (Specify)									
REPORT TO COMPANY: <u>Antev</u>																													
PROJECT MANAGER: <u>Megan Richard</u>																													
ADDRESS: <u>18378-B Redmondway</u> <u>Redmond, WA</u>																													
PHONE: <u>206-254-0399</u> P.O. #:																													
E-MAIL: <u>Megan.Richard@AntevGroup.VS</u>																													
INVOICE TO COMPANY: <u>Same as above</u>																													
ATTENTION: <u>Digital Solutions, Equis@AntevGroup.VS</u>																													
ADDRESS: <u>Same as above</u>																													
SAMPLE I.D.	DATE	TIME	TYPE	LAB#	NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA 8021	MTBE by EPA 8021	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM	PCB by EPA 8082	Pesticides by EPA 8081	Metals-MTCA-5	RCRA-8	Pri Pol	TAL	Metals Other (Specify)	TCLP-Metals	VOA	Semi-Vol	Pest	Herbs	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
1. SW-N-13-R-20231227	12/27/23	1040	Soil	1				X	X																				
2. SW-N-13-24-20231227	12/27/23	1055	↓	2				X	X																				
3. SW-E-4-12-20231227	12/27/23	1050	↓	3				X	X																				
4. SW-E-4-24-20231227	12/27/23	1105	↓	4				X	X																				
5. SW-S-13-12-20231227	12/27/23	1110	↓	5				X	X																				
6. B-25-24-20231227	12/27/23	1115	↓	6				X	X																				
7. SW-S-13-24-20231227	12/27/23	1120	↓	7				X	X																				
8. B-24-24-20231227	12/27/23	1130	↓	8				X	X			X																	
9. SW-N-13-12-20231227	12/27/23	1150	↓	9				X	X																				
10. SW-N-13-24-20231227	12/27/23	1155	↓	10				X	X																				

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

- Relinquished By: Celia Dechenne, Antev Group, 12/27/23
Received By: ACJ 12/27/23 3:00pm
- Relinquished By: _____
Received By: _____

TURNAROUND REQUESTED in Business Days*
Organic, Metals & Inorganic Analysis OTHER:

Standard 10 5 3 2 ☒ SAME DAY

Fuels & Hydrocarbon Analysis

Standard 5 3 ☒ SAME DAY

Specify: 24 hr
ASAP



ALS Job# (Laboratory Use Only)
EV24010001
~~E00120805~~

Date 12/21/23 Page 2 O

[illegible]

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Calvin Decker, Antew Group, 12/27/23
Received By: [Signature] Ac, 12/27/23 3:20pm

2. Relinquished By: _____
Received By: _____

TURNAROUND REQUESTED in Business Days*
Organic, Metals & Inorganic Analysis OTHER:

10 Standard 5 3 2 1 SAME DAY

Fuels & Hydrocarbon Analysis 5 3 2 1 SAME DAY

Specify: 24 hr
ASAP

**Turnaround request less than standard may incur Rush Charges*



ALS Environmental
8620 Holly Drive, Suite 100
Everett, WA 98208
Phone (425) 356-2600
Fax (425) 356-2626
http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only)

EW24610001
~~EW3120203~~

Date 12/27/23 Page 3 Of

PROJECT ID: <u>MP-46</u>					ANALYSIS REQUESTED															OTHER (Specify)									
REPORT TO COMPANY: <u>Anteo Group</u>					NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTX by EPA 8021	MTBE by EPA 8260	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semi-volatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM	PCB by EPA 8082	Pesticides by EPA 8081	TAL	Pri Pol	RCRA-8	Metals-MTCA-5	Metals Other (Specify)	TCLP-Metals	VOA	Semi-Vol	Pest	Herbs	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
PROJECT MANAGER: <u>Megan Richard</u>																													
ADDRESS: <u>18378-B Redmont Way</u> <u>Redmont WA</u>																													
PHONE: <u>206-854-0399</u> P.O. #:																													
E-MAIL: <u>Megan.Richard@Anteogroup.us</u>																													
INVOICE TO COMPANY: <u>Same as above</u>																													
ATTENTION: <u>Digital Solutions, Equis @ Anteo group.us</u>																													
ADDRESS: <u>Same as above</u>																													
SAMPLE I.D.	DATE	TIME	TYPE	LAB#																									
1. SW-S-10-24-2013 1227	12/27/23	1240	Soil	21	5																								
2. SW-S-10-12-2013 1227		1245		22																									
3. SW-N-10-12-2013 1227		1350		23																									
4. SW-N-10-12-2013 1227		1255		24																									
5. B-18-24-2023 1227		1300		25																									
6. B-19-24-2023 1227		1305		25	6																								
7. SW-S-7-24-2023 1227		1325		27																									
8. SW-S-7-24-2023 1227		1330		28																									
9. SW-N-7-24-2023 1227		1320		29																									
10. SW-N-7-24-2023 1227		1335		30																									

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

- Relinquished By: Celia Decheney, Anteo Group, 12/27/23
Received By: [Signature] AS 12/27/23 3:00pm
- Relinquished By:
Received By:

TURNAROUND REQUESTED in Business Days*
Organic, Metals & Inorganic Analysis OTHER:

10	5	3	2	☒	SAME DAY
Fuels & Hydrocarbon Analysis					
5	3	☒	☒	SAME DAY	

Specify: 24 hr
ASAP

*Turnaround request less than standard may incur Rush Charges



ALS Job# (Laboratory Use Only)

~~FD-231 (Rev. 10-6-95)~~

PROJECT ID:	MP-46
REPORT TO COMPANY:	Antex Group
PROJECT MANAGER:	Megan Richard
ADDRESS:	18378 -B Redmond Way Redmond WA
PHONE:	206-854-0300
	P.O. #:
E-MAIL:	Megan.Richard@AntexGroup,VS
INVOICE TO COMPANY:	Same as above
ATTENTION:	Digital Solutions, Equip @ Antexgroup,VS
ADDRESS:	Same as above

OTHER (Specify)

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Celia Dechene Antea Group 12/27/23
Received By: [Signature] AS 12/27/23 3:00pm

2. Relinquished By: _____
Received By: _____

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis

OTHER:

Specify: 24 hr
ASAP

Fuels & Hydrocarbon Analysis

5 3  SAM
Standard DAY

ALS ENVIRONMENTAL

Sample Receiving Checklist

EV24010201

Client: Antea

ALS Job#: EV23120203

Project: MP-46

Login Date: 12-27-23

Login Time: 3:16

Login By: MH

Type of Shipping Container: Cooler ☒ Box ☐ Other ☐

Shipped via: FedEx Ground ☐ UPS ☐ Courier ☐ Hand Delivered ☒ ALS Courier ☐
FedEx Express ☐

Yes No N/A

Were custody seals on outside of shipping container?

If yes, how many? Where?

Custody seal date: Seal name:

 X

Was Chain of Custody properly filled out (ink, signed, dated, etc.)?

X

Did all bottles have labels?

X

Did all bottle labels and tags agree with Chain of Custody?

X

Were samples received within hold time?

X

Did all bottles arrive in good condition (unbroken, etc.)?

X

Was sufficient amount of sample sent for the tests indicated?

X

Was correct preservation added to samples?

X

Subcontract test containers added to Subcontract Bin?

 X

Wetchem test containers marked with required Tests?

 X

Short hold time test containers delivered to analysts?

 X

Were VOA vials checked for absence of air bubbles?

 X

Bubbles present in sample #:

5035A kits received?

Low Kits: 32

High Kits:

X

5035A kits returned?

Low Kits:

High Kits:

Temperature of cooler upon receipt: 4.3°C On ice? ☒

Explain any discrepancies:

Was client contacted? Who was called? By whom? Date:

Outcome of call:

Work Order ID	Client ID	Project Name	Due Date
EV23120167	LAN01-EDMONDS	WATERFRONT PLACE / 147044	12/28/2023
EV23120159	GEO02-BELLINGHAM	Roeder 23-1862	12/28/2023
EV23120179	GEO02-BELLINGHAM	Roeder 23-1862	12/29/2023
EV23120175	TER01-MOUNTLAKE TERRACE	Shoreline Residence	12/29/2023
EV23120173	HFS01-ANACORTES	Solid Waste Program	12/29/2023
EV23120116	QUI01-TULALIP	EFF WQ	12/29/2023
EV23120045	PBS02-KENNEWICK	Pasco Landfill / 64180.023.0002.001	12/29/2023
EV23120196	POR05-PORTTOWNSEND	Oily Rag Profile	1/2/2024
EV23120188	POR02-EVERETT	Marine Terminals	1/2/2024
EV23120187	POR02-EVERETT	Norton Terminal	1/2/2024
EV23120140	TEC05-KENMORE	SeaPort Midstream Partners, Seattle TMMS-10289	1/2/2024
EV23120139	TER01-MOUNTLAKE TERRACE	Maple Valley 76	1/2/2024
EV23120137	SUR01-CAMDEN	John Day Lock and Dam NPDES WA0026832	1/2/2024
EV23120135	GEO02-BELLINGHAM	Daedalus 22-0066	1/2/2024
EV23120109	SUR01-CAMDEN	McNary Lock & Dam	1/2/2024
EV23120107	SUR01-CAMDEN	NPDES WA0026778	1/2/2024
EV23120101	SUR01-CAMDEN	The Dalles Lock and Dam / 59002353	1/2/2024

B-24-24

-08

B-22-24

-13

B-20-24

-19

B-21-24

-20

B-19-24

-26

SW-S-10-24

-21

B-12-24

-31



December 29, 2023

Ms. Megan Richard
Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012

Dear Ms. Richard,

On December 27th, 32 samples were received by our laboratory and assigned our laboratory project number EV23120203. The project was identified as your MP-46. The sample identification and requested analyses are outlined on the attached chain of custody record.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rob Greer
Laboratory Director



CLIENT: Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012

CLIENT CONTACT: Megan Richard

CLIENT PROJECT: MP-46

DATE: 12/29/2023
ALS JOB#: EV23120203
WDOE ACCREDITATION: C601

CASE NARRATIVE

Please note that multiple analytes are reported with E and E2 qualifiers. E qualifiers denote analytes with results that exceed the instrument calibration range. E2 qualifiers denote analytes with results that saturated the detector with results the exceed the instrument calibration range and the concentration of these analytes in the target samples are likely much higher than the reported values.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-01
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 10:40:00 AM
CLIENT SAMPLE ID	SW-N-13_12_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	3.9	3.0	1	MG/KG	12/28/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/28/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/28/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	97.9	12/28/2023	MNC
Toluene-d8	EPA-8260	93.6	12/28/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains highly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-02
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 10:55:00 AM
CLIENT SAMPLE ID	SW-N-13_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/28/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/28/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/28/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	89.1	12/28/2023	MNC
Toluene-d8	EPA-8260	92.3	12/28/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-03
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 10:50:00 AM
CLIENT SAMPLE ID	SW-E-4_12_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	5700	300	100	MG/KG	12/29/2023	MNC
Benzene	EPA-8260	5400	700	25	UG/KG	12/29/2023	DLC
Toluene	EPA-8260	370000 E	410	25	UG/KG	12/29/2023	DLC
Ethylbenzene	EPA-8260	83000	580	25	UG/KG	12/29/2023	DLC
m,p-Xylene	EPA-8260	290000 E	1200	25	UG/KG	12/29/2023	DLC
o-Xylene	EPA-8260	110000	720	25	UG/KG	12/29/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 100X Dilution	NWTPH-GX	U, SUR07	12/29/2023	MNC
Toluene-d8 25X Dilution	EPA-8260	96.6	12/29/2023	DLC

E - Reported result is an estimate because it exceeds the calibration range.

SUR07 -The surrogate recovery could not be determined due to dilution below the calibration range.

Chromatogram indicates that it is likely that sample contains lightly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-04
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 11:05:00 AM
CLIENT SAMPLE ID	SW-E-4_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	1800	300	100	MG/KG	12/29/2023	MNC
Benzene	EPA-8260	1800	740	25	UG/KG	12/29/2023	DLC
Toluene	EPA-8260	110000	440	25	UG/KG	12/29/2023	DLC
Ethylbenzene	EPA-8260	29000	620	25	UG/KG	12/29/2023	DLC
m,p-Xylene	EPA-8260	110000	1200	25	UG/KG	12/29/2023	DLC
o-Xylene	EPA-8260	40000	770	25	UG/KG	12/29/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 100X Dilution	NWTPH-GX	U, SUR07	12/29/2023	MNC
Toluene-d8 25X Dilution	EPA-8260	96.2	12/29/2023	DLC

SUR07 -The surrogate recovery could not be determined due to dilution below the calibration range.
Chromatogram indicates that it is likely that sample contains weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-05
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 11:10:00 AM
CLIENT SAMPLE ID	SW-S-13_12_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	10	3.0	1	MG/KG	12/28/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/28/2023	DLC
Toluene	EPA-8260	18	10	1	UG/KG	12/28/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
m,p-Xylene	EPA-8260	28	20	1	UG/KG	12/28/2023	DLC
o-Xylene	EPA-8260	15	10	1	UG/KG	12/28/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	99.2	12/28/2023	MNC
Toluene-d8	EPA-8260	94.4	12/28/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains highly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-06
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 11:15:00 AM
CLIENT SAMPLE ID	B-25_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	13	3.0	1	MG/KG	12/28/2023	MNC
Benzene	EPA-8260	8.0	5.0	1	UG/KG	12/28/2023	DLC
Toluene	EPA-8260	47	10	1	UG/KG	12/28/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/28/2023	DLC
o-Xylene	EPA-8260	18	10	1	UG/KG	12/28/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	108	12/28/2023	MNC
Toluene-d8	EPA-8260	93.4	12/28/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-07
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 11:20:00 AM
CLIENT SAMPLE ID	SW-S-13_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/28/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/28/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/28/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	87.8	12/28/2023	MNC
Toluene-d8	EPA-8260	94.5	12/28/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-08
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 11:30:00 AM
CLIENT SAMPLE ID	B-24_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	2100	300	100	MG/KG	12/29/2023	MNC
Benzene	EPA-8260	2100	1200	50	UG/KG	12/29/2023	DLC
Toluene	EPA-8260	85000	710	50	UG/KG	12/29/2023	DLC
Ethylbenzene	EPA-8260	25000	1000	50	UG/KG	12/29/2023	DLC
m,p-Xylene	EPA-8260	95000	2000	50	UG/KG	12/29/2023	DLC
o-Xylene	EPA-8260	37000	1200	50	UG/KG	12/29/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 100X Dilution	NWTPH-GX	U, SUR07	12/29/2023	MNC
Toluene-d8 50X Dilution	EPA-8260	93.6	12/29/2023	DLC

SUR07 -The surrogate recovery could not be determined due to dilution below the calibration range.
Chromatogram indicates that it is likely that sample contains weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-09
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 11:50:00 AM
CLIENT SAMPLE ID	SW-N-12_12_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	5.3	3.0	1	MG/KG	12/28/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/29/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/29/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/29/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/29/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/29/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	88.4	12/28/2023	MNC
Toluene-d8	EPA-8260	92.7	12/29/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains highly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-10
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 11:55:00 AM
CLIENT SAMPLE ID	SW-N-12_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/28/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/28/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/28/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	89.1	12/28/2023	MNC
Toluene-d8	EPA-8260	94.2	12/28/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-11
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 12:05:00 PM
CLIENT SAMPLE ID	SW-S-12_12_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/28/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/28/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/28/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	97.2	12/28/2023	MNC
Toluene-d8	EPA-8260	94.0	12/28/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-12
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 11:40:00 AM
CLIENT SAMPLE ID	SW-S-12_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/28/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/28/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/28/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	89.6	12/28/2023	MNC
Toluene-d8	EPA-8260	93.8	12/28/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-13
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 11:45:00 AM
CLIENT SAMPLE ID	B-22_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	3600	300	100	MG/KG	12/29/2023	MNC
Benzene	EPA-8260	6800	1200	50	UG/KG	12/29/2023	DLC
Toluene	EPA-8260	230000 E	700	50	UG/KG	12/29/2023	DLC
Ethylbenzene	EPA-8260	51000	990	50	UG/KG	12/29/2023	DLC
m,p-Xylene	EPA-8260	190000	2000	50	UG/KG	12/29/2023	DLC
o-Xylene	EPA-8260	72000	1200	50	UG/KG	12/29/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 100X Dilution	NWTPH-GX	U, SUR07	12/29/2023	MNC
Toluene-d8 50X Dilution	EPA-8260	92.8	12/29/2023	DLC

SUR07 -The surrogate recovery could not be determined due to dilution below the calibration range.
E - Reported result is an estimate because it exceeds the calibration range.
Chromatogram indicates that it is likely that sample contains lightly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-14
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 12:00:00 PM
CLIENT SAMPLE ID	B-23_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	50	3.0	1	MG/KG	12/28/2023	MNC
Benzene	EPA-8260	370	30	1	UG/KG	12/29/2023	DLC
Toluene	EPA-8260	11000	180	10	UG/KG	12/29/2023	DLC
Ethylbenzene	EPA-8260	570	25	1	UG/KG	12/29/2023	DLC
m,p-Xylene	EPA-8260	3600	49	1	UG/KG	12/29/2023	DLC
o-Xylene	EPA-8260	1800	31	1	UG/KG	12/29/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	105	12/28/2023	MNC
Toluene-d8	EPA-8260	93.1	12/29/2023	DLC
Toluene-d8 10X Dilution	EPA-8260	94.8	12/29/2023	DLC

Chromatogram indicates that it is likely that sample contains weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-15
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 12:20:00 PM
CLIENT SAMPLE ID	SW-N-11_12_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/28/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/28/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/28/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	97.4	12/28/2023	MNC
Toluene-d8	EPA-8260	94.2	12/28/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-16
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 12:25:00 PM
CLIENT SAMPLE ID	SW-N-11_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/28/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/28/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/28/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	95.4	12/28/2023	MNC
Toluene-d8	EPA-8260	93.5	12/28/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-17
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 12:30:00 PM
CLIENT SAMPLE ID	SW-S-11_12_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/28/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/28/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/28/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	94.9	12/28/2023	MNC
Toluene-d8	EPA-8260	94.0	12/28/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group 18378-B Redmond Way Redmond, WA 98052-5012	DATE:	12/29/2023
		ALS JOB#:	EV23120203
CLIENT CONTACT:	Megan Richard	ALS SAMPLE#:	EV23120203-18
CLIENT PROJECT:	MP-46	DATE RECEIVED:	12/27/2023
CLIENT SAMPLE ID	SW-S-11_24_20231227	COLLECTION DATE:	12/27/2023 12:35:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/28/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/28/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/28/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	95.3	12/28/2023	MNC
Toluene-d8	EPA-8260	94.4	12/28/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-19
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 12:10:00 PM
CLIENT SAMPLE ID	B-20_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	9000	300	100	MG/KG	12/29/2023	MNC
Benzene	EPA-8260	10000	2600	100	UG/KG	12/29/2023	DLC
Toluene	EPA-8260	680000 E	1600	100	UG/KG	12/29/2023	DLC
Ethylbenzene	EPA-8260	140000	2200	100	UG/KG	12/29/2023	DLC
m,p-Xylene	EPA-8260	500000	4300	100	UG/KG	12/29/2023	DLC
o-Xylene	EPA-8260	200000	2700	100	UG/KG	12/29/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 100X Dilution	NWTPH-GX	U, SUR07	12/29/2023	MNC
Toluene-d8 100X Dilution	EPA-8260	92.2	12/29/2023	DLC

SUR07 -The surrogate recovery could not be determined due to dilution below the calibration range.
E - Reported result is an estimate because it exceeds the calibration range.
Chromatogram indicates that it is likely that sample contains lightly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-20
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 12:15:00 PM
CLIENT SAMPLE ID	B-21_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	6100	300	100	MG/KG	12/29/2023	MNC
Benzene	EPA-8260	11000	2200	100	UG/KG	12/29/2023	DLC
Toluene	EPA-8260	350000	1300	100	UG/KG	12/29/2023	DLC
Ethylbenzene	EPA-8260	89000	1800	100	UG/KG	12/29/2023	DLC
m,p-Xylene	EPA-8260	330000	3600	100	UG/KG	12/29/2023	DLC
o-Xylene	EPA-8260	130000	2300	100	UG/KG	12/29/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 100X Dilution	NWTPH-GX	U, SUR07	12/29/2023	MNC
Toluene-d8 100X Dilution	EPA-8260	92.6	12/29/2023	DLC

SUR07 -The surrogate recovery could not be determined due to dilution below the calibration range.
Chromatogram indicates that it is likely that sample contains weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-21
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 12:40:00 PM
CLIENT SAMPLE ID	SW-S-10_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	460	60	20	MG/KG	12/29/2023	MNC
Benzene	EPA-8260	300 E2	5.0	1	UG/KG	12/28/2023	DLC
Toluene	EPA-8260	980 E2	10	1	UG/KG	12/28/2023	DLC
Ethylbenzene	EPA-8260	680 E2	10	1	UG/KG	12/28/2023	DLC
m,p-Xylene	EPA-8260	1600 E2	20	1	UG/KG	12/28/2023	DLC
o-Xylene	EPA-8260	930 E2	10	1	UG/KG	12/28/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 20X Dilution	NWTPH-GX	121 SUR07	12/29/2023	MNC
Toluene-d8	EPA-8260	154 SQ2	12/28/2023	DLC

E2 - Reported result is an estimate because it exceeds the calibration range. The actual value for this analyte is probably much higher than reported. Resampling and reanalysis is recommended.

SQ2 - Spike outside of control limits due to matrix effect.

SUR07 -The surrogate recovery could not be determined due to dilution below the calibration range. Chromatogram indicates that it is likely that sample contains highly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-22
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 12:45:00 PM
CLIENT SAMPLE ID	SW-S-10_12_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	23	3.0	1	MG/KG	12/29/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/29/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/29/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/29/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/29/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/29/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	81.7	12/29/2023	MNC
Toluene-d8	EPA-8260	92.8	12/29/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains highly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-23
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 12:50:00 PM
CLIENT SAMPLE ID	SW-N-10_12_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/29/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/28/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/28/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	84.8	12/29/2023	MNC
Toluene-d8	EPA-8260	96.2	12/28/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group 18378-B Redmond Way Redmond, WA 98052-5012	DATE:	12/29/2023
		ALS JOB#:	EV23120203
CLIENT CONTACT:	Megan Richard	ALS SAMPLE#:	EV23120203-24
CLIENT PROJECT:	MP-46	DATE RECEIVED:	12/27/2023
CLIENT SAMPLE ID	SW-N-10_24_20231227	COLLECTION DATE:	12/27/2023 12:55:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/29/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/28/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/28/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	101	12/29/2023	MNC
Toluene-d8	EPA-8260	93.4	12/28/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-25
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 1:00:00 PM
CLIENT SAMPLE ID	B-18_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	20	3.0	1	MG/KG	12/29/2023	MNC
Benzene	EPA-8260	55	5.0	1	UG/KG	12/28/2023	DLC
Toluene	EPA-8260	340	10	1	UG/KG	12/28/2023	DLC
Ethylbenzene	EPA-8260	35	10	1	UG/KG	12/28/2023	DLC
m,p-Xylene	EPA-8260	100	20	1	UG/KG	12/28/2023	DLC
o-Xylene	EPA-8260	55	10	1	UG/KG	12/28/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	105	12/29/2023	MNC
Toluene-d8	EPA-8260	91.2	12/28/2023	DLC

Chromatogram indicates that it is likely that sample contains weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-26
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 1:05:00 PM
CLIENT SAMPLE ID	B-19_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	3200	300	100	MG/KG	12/29/2023	MNC
Benzene	EPA-8260	1000 E2	5.0	1	UG/KG	12/28/2023	DLC
Toluene	EPA-8260	3600 E2	10	1	UG/KG	12/28/2023	DLC
Ethylbenzene	EPA-8260	680 E2	10	1	UG/KG	12/28/2023	DLC
m,p-Xylene	EPA-8260	1400 E2	20	1	UG/KG	12/28/2023	DLC
o-Xylene	EPA-8260	870 E2	10	1	UG/KG	12/28/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 100X Dilution	NWTPH-GX	U, SUR07	12/29/2023	MNC
Toluene-d8	EPA-8260	266 SQ2	12/28/2023	DLC

E2 - Reported result is an estimate because it exceeds the calibration range. The actual value for this analyte is probably much higher than reported. Resampling and reanalysis is recommended.

SQ2 - Spike outside of control limits due to matrix effect.

SUR07 -The surrogate recovery could not be determined due to dilution below the calibration range. Chromatogram indicates that it is likely that sample contains highly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-27
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 1:25:00 PM
CLIENT SAMPLE ID	SW-S-7_12_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	6.4	3.0	1	MG/KG	12/29/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/29/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/29/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/29/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/29/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/29/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	93.5	12/29/2023	MNC
Toluene-d8	EPA-8260	93.4	12/29/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains highly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-28
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 1:30:00 PM
CLIENT SAMPLE ID	SW-S-7_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/29/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/28/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/28/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	85.5	12/29/2023	MNC
Toluene-d8	EPA-8260	92.6	12/28/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-29
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 1:20:00 PM
CLIENT SAMPLE ID	SW-N-7_12_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	10	3.0	1	MG/KG	12/29/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/28/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
m,p-Xylene	EPA-8260	37	20	1	UG/KG	12/28/2023	DLC
o-Xylene	EPA-8260	16	10	1	UG/KG	12/28/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	88.2	12/29/2023	MNC
Toluene-d8	EPA-8260	94.3	12/28/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains highly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group 18378-B Redmond Way Redmond, WA 98052-5012	DATE:	12/29/2023
		ALS JOB#:	EV23120203
CLIENT CONTACT:	Megan Richard	ALS SAMPLE#:	EV23120203-30
CLIENT PROJECT:	MP-46	DATE RECEIVED:	12/27/2023
CLIENT SAMPLE ID	SW-N-7_24_20231227	COLLECTION DATE:	12/27/2023 1:35:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/29/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/28/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/28/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/28/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	83.7	12/29/2023	MNC
Toluene-d8	EPA-8260	93.4	12/28/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-31
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 1:15:00 PM
CLIENT SAMPLE ID	B-12_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	9200	300	100	MG/KG	12/28/2023	MNC
Benzene	EPA-8260	2100 E2	5.0	1	UG/KG	12/28/2023	DLC
Toluene	EPA-8260	7700 E2	10	1	UG/KG	12/28/2023	DLC
Ethylbenzene	EPA-8260	970 E2	10	1	UG/KG	12/28/2023	DLC
m,p-Xylene	EPA-8260	1800 E2	20	1	UG/KG	12/28/2023	DLC
o-Xylene	EPA-8260	980 E2	10	1	UG/KG	12/28/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 100X Dilution	NWTPH-GX	631 SUR07	12/28/2023	MNC
Toluene-d8	EPA-8260	338 SQ2	12/28/2023	DLC

SQ2 - Spike outside of control limits due to matrix effect.

SUR07 -The surrogate recovery could not be determined due to dilution below the calibration range.

E2 - Reported result is an estimate because it exceeds the calibration range. The actual value for this analyte is probably much higher than reported.

Resampling and reanalysis is recommended.

Chromatogram indicates that it is likely that sample contains lightly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/29/2023
	18378-B Redmond Way	ALS JOB#:	EV23120203
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120203-32
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/27/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/27/2023 1:10:00 PM
CLIENT SAMPLE ID	B-13_24_20231227	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	13	3.0	1	MG/KG	12/28/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/29/2023	DLC
Toluene	EPA-8260	100	10	1	UG/KG	12/29/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/29/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/29/2023	DLC
o-Xylene	EPA-8260	19	10	1	UG/KG	12/29/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	95.4	12/28/2023	MNC
Toluene-d8	EPA-8260	94.1	12/29/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains highly weathered gasoline.



CERTIFICATE OF ANALYSIS

CLIENT: Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012
DATE: 12/29/2023
ALS SDG#: EV23120203
WDOE ACCREDITATION: C601

CLIENT CONTACT: Megan Richard
CLIENT PROJECT: MP-46

LABORATORY BLANK RESULTS

MBG-122723S - Batch 205464 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	MG/KG	3.0	12/28/2023	MNC

U - Analyte analyzed for but not detected at level above reporting limit.

MBG-122723S2 - Batch 205446 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	MG/KG	3.0	12/28/2023	MNC

U - Analyte analyzed for but not detected at level above reporting limit.

MBG-122723S3 - Batch 205436 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	MG/KG	3.0	12/29/2023	MNC

U - Analyte analyzed for but not detected at level above reporting limit.

MB-122723S2 - Batch 205478 - Soil by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8260	U	UG/KG	5.0	12/27/2023	DLC
Toluene	EPA-8260	U	UG/KG	10	12/27/2023	DLC
Ethylbenzene	EPA-8260	U	UG/KG	10	12/27/2023	DLC
m,p-Xylene	EPA-8260	U	UG/KG	20	12/27/2023	DLC
o-Xylene	EPA-8260	U	UG/KG	10	12/27/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

MB-122823S - Batch 205481 - Soil by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8260	U	UG/KG	5.0	12/28/2023	DLC
Toluene	EPA-8260	U	UG/KG	10	12/28/2023	DLC
Ethylbenzene	EPA-8260	U	UG/KG	10	12/28/2023	DLC
m,p-Xylene	EPA-8260	U	UG/KG	20	12/28/2023	DLC
o-Xylene	EPA-8260	U	UG/KG	10	12/28/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT: Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012
DATE: 12/29/2023
ALS SDG#: EV23120203
WDOE ACCREDITATION: C601

CLIENT CONTACT: Megan Richard
CLIENT PROJECT: MP-46

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 205436 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
TPH-Volatile Range - BS	NWTPH-GX	98.4			66.5	122.7	12/29/2023	MNC
TPH-Volatile Range - BSD	NWTPH-GX	97.4	1		66.5	122.7	12/29/2023	MNC

ALS Test Batch ID: 205446 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
TPH-Volatile Range - BS	NWTPH-GX	110			66.5	122.7	12/28/2023	MNC
TPH-Volatile Range - BSD	NWTPH-GX	106	3		66.5	122.7	12/28/2023	MNC

ALS Test Batch ID: 205464 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
TPH-Volatile Range - BS	NWTPH-GX	98.3			66.5	122.7	12/28/2023	MNC
TPH-Volatile Range - BSD	NWTPH-GX	98.9	1		66.5	122.7	12/28/2023	MNC

ALS Test Batch ID: 205478 - Soil by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Benzene - BS	EPA-8260	97.8			75	138	12/28/2023	DLC
Benzene - BSD	EPA-8260	104	6		75	138	12/28/2023	DLC
Toluene - BS	EPA-8260	96.3			71.6	122.1	12/28/2023	DLC
Toluene - BSD	EPA-8260	102	5		71.6	122.1	12/28/2023	DLC
Ethylbenzene - BS	EPA-8260	95.7			50	150	12/28/2023	DLC
Ethylbenzene - BSD	EPA-8260	99.5	4		50	150	12/28/2023	DLC
m,p-Xylene - BS	EPA-8260	93.2			50	150	12/28/2023	DLC
m,p-Xylene - BSD	EPA-8260	97.6	5		50	150	12/28/2023	DLC
o-Xylene - BS	EPA-8260	94.3			50	150	12/28/2023	DLC
o-Xylene - BSD	EPA-8260	99.7	6		50	150	12/28/2023	DLC

ALS Test Batch ID: 205481 - Soil by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Benzene - BS	EPA-8260	86.5			75	138	12/28/2023	DLC
Benzene - BSD	EPA-8260	85.6	1		75	138	12/28/2023	DLC
Toluene - BS	EPA-8260	92.7			71.6	122.1	12/28/2023	DLC
Toluene - BSD	EPA-8260	90.5	2		71.6	122.1	12/28/2023	DLC
Ethylbenzene - BS	EPA-8260	86.6			50	150	12/28/2023	DLC
Ethylbenzene - BSD	EPA-8260	83.1	4		50	150	12/28/2023	DLC
m,p-Xylene - BS	EPA-8260	87.9			50	150	12/28/2023	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group 18378-B Redmond Way Redmond, WA 98052-5012	DATE:	12/29/2023
		ALS SDG#:	EV23120203
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Megan Richard		
CLIENT PROJECT:	MP-46		

LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
m,p-Xylene - BSD	EPA-8260	83.8	5		50	150	12/28/2023	DLC
o-Xylene - BS	EPA-8260	87.4			50	150	12/28/2023	DLC
o-Xylene - BSD	EPA-8260	83.6	4		50	150	12/28/2023	DLC

APPROVED BY



Rob Greer
Laboratory Director



ALS Job# (Laboratory Use Only)

EV23120203

Date 12/27/23 Page 1 Of 1

[illegible]

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Cetin Deschamps, Antero Group, 12/27/23
Received By: [Signature] ACJ 12/27/23 3:00pm

2. Relinquished By: _____
Received By: _____

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis

OTHER:

Specify: 24 hr
ASAP

Fuels & Hydrocarbon Analysis

5 3 ~~1~~ SAME DAY

*Turnaround request less than standard may incur Rush Charges



ALS Job# (Laboratory Use Only)

EV23120202

Date 12/28/23 Page 2 Of 2

[illegible]

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Calin Dekeane, Antea Group, 12/27/23
Received By: [Signature] Dec 12/27/23 3:27pm

2. Relinquished By: _____
Received By: _____

TURNAROUND REQUESTED in Business Days*

OTHER:

Organic, Metals & Inorganic Analysis

Standard 10 5 3 2 1 SAME DAY

Fuels & Hydrocarbon Analysis

Standard 5 3 1 SAME DAY

Specify: 24 hr
ASAP

**Turnaround request less than standard may incur Rush Charges*



ALS Job# (Laboratory Use Only)

Date 12/27/83 Page 3 O

SPECIAL INSTRUCTIONS

1. Relinquished By: Celia Deschenne, Antea Group, 12/27/23
Received By: [Signature] AS 12/27/23 3:07pm

2. Relinquished By: _____
Received By: _____

OTHER:

Standard 10 5 3 2 ~~1~~ SAME DAY

Fuels & Hydrocarbon Analysis

Standard 5 3 ~~1~~ SAME DAY

Specify: 24 hr
ASAP

**Turnaround request less than standard may incur Rush Charges*



ALS Job# (Laboratory Use Only)

EV23120203

Date 12/27/23 Page 4 Of

[illegible]

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Col. Decker Antea Group 12/27/23
Received By: [Signature] ASY 12/27/23 3:00pm

2. Relinquished By: _____
Received By: _____

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis

OTHER:

10 5 3 2  SAM
Standard DA

Fuels & Hydrocarbon Analysis

Specify: _____

24 h/

ASA

*Turnaround request less than standard may incur Rush Charges

ALS ENVIRONMENTAL

Sample Receiving Checklist

Client: Antea ALS Job#: E023120203

Project: MP-46

Login Date: 12-27-23 Login Time: 3:16 Login By: MH

Type of Shipping Container: Cooler ☒ Box ☐ Other ☐

Shipped via: FedEx Ground ☐ UPS ☐ Courier ☐ Hand Delivered ☒ ALS Courier ☐
FedEx Express ☐

	Yes	No	N/A
Were custody seals on outside of shipping container?			☒
If yes, how many? _____ Where? _____			
Custody seal date: _____ Seal name: _____			
Was Chain of Custody properly filled out (ink, signed, dated, etc.)?	☒		
Did all bottles have labels?	☒		
Did all bottle labels and tags agree with Chain of Custody?	☒		
Were samples received within hold time?	☒		
Did all bottles arrive in good condition (unbroken, etc.)?	☒		
Was sufficient amount of sample sent for the tests indicated?	☒		
Was correct preservation added to samples?	☒		
Subcontract test containers added to Subcontract Bin?			☒
Wetchem test containers marked with required Tests?			☒
Short hold time test containers delivered to analysts?			☒
Were VOA vials checked for absence of air bubbles?			☒
Bubbles present in sample #: _____			

5035A kits received? ☒
 # Low Kits: 32 # High Kits: _____

5035A kits returned?
 # Low Kits: _____ # High Kits: _____

Temperature of cooler upon receipt: 4.3°C On ice? ☒

Explain any discrepancies:

Was client contacted? _____ Who was called? _____ By whom? _____ Date: _____

Outcome of call:



December 22, 2023

Ms. Megan Richard
Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012

Dear Ms. Richard,

On December 21st, 18 samples were received by our laboratory and assigned our laboratory project number EV23120182. The project was identified as your MP-46. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rob Greer
Laboratory Director



CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/22/2023
	18378-B Redmond Way	ALS JOB#:	EV23120182
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120182-01
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/21/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/21/2023 12:20:00 PM
CLIENT SAMPLE ID	SW-S-6_12_20231221	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/22/2023	DLC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/21/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	91.1	12/22/2023	DLC
Toluene-d8	EPA-8260	98.1	12/21/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/22/2023
	18378-B Redmond Way	ALS JOB#:	EV23120182
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120182-02
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/21/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/21/2023 12:25:00 PM
CLIENT SAMPLE ID	SW-S-6_24_20231221	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/22/2023	DLC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/21/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	86.1	12/22/2023	DLC
Toluene-d8	EPA-8260	94.7	12/21/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/22/2023
	18378-B Redmond Way	ALS JOB#:	EV23120182
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120182-03
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/21/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/21/2023 12:05:00 PM
CLIENT SAMPLE ID	SW-N-6_12_20231221	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/22/2023	DLC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/21/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	92.3	12/22/2023	DLC
Toluene-d8	EPA-8260	95.7	12/21/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group 18378-B Redmond Way Redmond, WA 98052-5012	DATE:	12/22/2023
		ALS JOB#:	EV23120182
CLIENT CONTACT:	Megan Richard	ALS SAMPLE#:	EV23120182-04
CLIENT PROJECT:	MP-46	DATE RECEIVED:	12/21/2023
CLIENT SAMPLE ID	SW-N-6_24_20231221	COLLECTION DATE:	12/21/2023 12:10:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/22/2023	DLC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/21/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	98.7	12/22/2023	DLC
Toluene-d8	EPA-8260	95.4	12/21/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/22/2023
	18378-B Redmond Way	ALS JOB#:	EV23120182
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120182-05
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/21/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/21/2023 12:30:00 PM
CLIENT SAMPLE ID	B-10_24_20231221	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	7.6	3.0	1	MG/KG	12/22/2023	DLC
Benzene	EPA-8260	19	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	660	18	1	UG/KG	12/22/2023	DLC
Ethylbenzene	EPA-8260	100	25	1	UG/KG	12/22/2023	DLC
m,p-Xylene	EPA-8260	380	49	1	UG/KG	12/22/2023	DLC
o-Xylene	EPA-8260	150	31	1	UG/KG	12/22/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	102	12/22/2023	DLC
Toluene-d8	EPA-8260	105	12/21/2023	DLC
Toluene-d8	EPA-8260	98.4	12/22/2023	DLC

Chromatogram indicates that it is likely that sample contains weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/22/2023
	18378-B Redmond Way	ALS JOB#:	EV23120182
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120182-06
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/21/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/21/2023 12:35:00 PM
CLIENT SAMPLE ID	B-11_24_20231221	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	21	3.0	1	MG/KG	12/22/2023	DLC
Benzene	EPA-8260	34	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	3500	20	1	UG/KG	12/22/2023	DLC
Ethylbenzene	EPA-8260	16	10	1	UG/KG	12/21/2023	DLC
m,p-Xylene	EPA-8260	73	20	1	UG/KG	12/21/2023	DLC
o-Xylene	EPA-8260	41	10	1	UG/KG	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	87.4	12/22/2023	DLC
Toluene-d8	EPA-8260	96.5	12/21/2023	DLC
Toluene-d8	EPA-8260	97.6	12/22/2023	DLC

Chromatogram indicates that it is likely that sample contains lightly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/22/2023
	18378-B Redmond Way	ALS JOB#:	EV23120182
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120182-07
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/21/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/21/2023 2:00:00 PM
CLIENT SAMPLE ID	SW-N-8_12_20231221	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	30	3.0	1	MG/KG	12/22/2023	DLC
Benzene	EPA-8260	770	28	1	UG/KG	12/22/2023	DLC
Toluene	EPA-8260	6600	84	5	UG/KG	12/22/2023	DLC
Ethylbenzene	EPA-8260	280	24	1	UG/KG	12/22/2023	DLC
m,p-Xylene	EPA-8260	900	47	1	UG/KG	12/22/2023	DLC
o-Xylene	EPA-8260	400	30	1	UG/KG	12/22/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	92.6	12/22/2023	DLC
Toluene-d8	EPA-8260	96.9	12/22/2023	DLC
Toluene-d8 5X Dilution	EPA-8260	96.8	12/22/2023	DLC

Chromatogram indicates that it is likely that sample contains lightly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/22/2023
	18378-B Redmond Way	ALS JOB#:	EV23120182
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120182-08
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/21/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/21/2023 2:05:00 PM
CLIENT SAMPLE ID	SW-N-8_24_20231221	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/22/2023	DLC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	13	10	1	UG/KG	12/21/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/21/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	104	12/22/2023	DLC
Toluene-d8	EPA-8260	96.0	12/21/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/22/2023
	18378-B Redmond Way	ALS JOB#:	EV23120182
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120182-09
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/21/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/21/2023 2:10:00 PM
CLIENT SAMPLE ID	SW-S-8_12_20231221	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/22/2023	DLC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/21/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	85.2	12/22/2023	DLC
Toluene-d8	EPA-8260	97.1	12/21/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/22/2023
	18378-B Redmond Way	ALS JOB#:	EV23120182
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120182-10
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/21/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/21/2023 2:15:00 PM
CLIENT SAMPLE ID	SW-S-8_24_20231221	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/22/2023	DLC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/21/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	81.4	12/22/2023	DLC
Toluene-d8	EPA-8260	96.3	12/21/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/22/2023
	18378-B Redmond Way	ALS JOB#:	EV23120182
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120182-11
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/21/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/21/2023 2:20:00 PM
CLIENT SAMPLE ID	B-14_24_20231221	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/22/2023	DLC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/21/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	94.6	12/22/2023	DLC
Toluene-d8	EPA-8260	96.7	12/21/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/22/2023
	18378-B Redmond Way	ALS JOB#:	EV23120182
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120182-12
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/21/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/21/2023 2:25:00 PM
CLIENT SAMPLE ID	B-15_24_20231221	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	440	30	10	MG/KG	12/22/2023	DLC
Benzene	EPA-8260	2900	28	1	UG/KG	12/22/2023	DLC
Toluene	EPA-8260	27000	160	10	UG/KG	12/22/2023	DLC
Ethylbenzene	EPA-8260	5100	230	10	UG/KG	12/22/2023	DLC
m,p-Xylene	EPA-8260	21000	460	10	UG/KG	12/22/2023	DLC
o-Xylene	EPA-8260	7900	290	10	UG/KG	12/22/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 10X Dilution	NWTPH-GX	110	12/22/2023	DLC
Toluene-d8	EPA-8260	103	12/22/2023	DLC
Toluene-d8 10X Dilution	EPA-8260	96.4	12/22/2023	DLC

Chromatogram indicates that it is likely that sample contains lightly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group 18378-B Redmond Way Redmond, WA 98052-5012	DATE:	12/22/2023
		ALS JOB#:	EV23120182
CLIENT CONTACT:	Megan Richard	ALS SAMPLE#:	EV23120182-13
CLIENT PROJECT:	MP-46	DATE RECEIVED:	12/21/2023
CLIENT SAMPLE ID	SW-N-9-12	COLLECTION DATE:	12/21/2023 2:30:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/22/2023	DLC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/21/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	97.9	12/22/2023	DLC
Toluene-d8	EPA-8260	98.1	12/21/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/22/2023
	18378-B Redmond Way	ALS JOB#:	EV23120182
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120182-14
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/21/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/21/2023 2:35:00 PM
CLIENT SAMPLE ID	SW-N-9-24	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/22/2023	DLC
Benzene	EPA-8260	11	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	490	15	1	UG/KG	12/22/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
m,p-Xylene	EPA-8260	23	20	1	UG/KG	12/21/2023	DLC
o-Xylene	EPA-8260	11	10	1	UG/KG	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	89.1	12/22/2023	DLC
Toluene-d8	EPA-8260	94.9	12/21/2023	DLC
Toluene-d8	EPA-8260	98.0	12/22/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/22/2023
	18378-B Redmond Way	ALS JOB#:	EV23120182
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120182-15
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/21/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/21/2023 2:40:00 PM
CLIENT SAMPLE ID	SW-S-9-12	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/22/2023	DLC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/22/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/22/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/22/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/22/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/22/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	95.7	12/22/2023	DLC
Toluene-d8	EPA-8260	97.9	12/22/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/22/2023
	18378-B Redmond Way	ALS JOB#:	EV23120182
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120182-16
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/21/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/21/2023 2:50:00 PM
CLIENT SAMPLE ID	SW-S-9-24	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/22/2023	DLC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/22/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/22/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/22/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/22/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/22/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	89.5	12/22/2023	DLC
Toluene-d8	EPA-8260	95.3	12/22/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/22/2023
	18378-B Redmond Way	ALS JOB#:	EV23120182
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120182-17
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/21/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/21/2023 3:00:00 PM
CLIENT SAMPLE ID	B-16_24	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/22/2023	DLC
Benzene	EPA-8260	6.6	5.0	1	UG/KG	12/22/2023	DLC
Toluene	EPA-8260	15	10	1	UG/KG	12/22/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/22/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/22/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/22/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	99.0	12/22/2023	DLC
Toluene-d8	EPA-8260	94.5	12/22/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/22/2023
	18378-B Redmond Way	ALS JOB#:	EV23120182
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120182-18
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/21/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/21/2023 3:15:00 PM
CLIENT SAMPLE ID	B-17_24	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	12	3.0	1	MG/KG	12/22/2023	DLC
Benzene	EPA-8260	21	5.0	1	UG/KG	12/22/2023	DLC
Toluene	EPA-8260	2200	16	1	UG/KG	12/22/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/22/2023	DLC
m,p-Xylene	EPA-8260	41	20	1	UG/KG	12/22/2023	DLC
o-Xylene	EPA-8260	21	10	1	UG/KG	12/22/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	107	12/22/2023	DLC
Toluene-d8	EPA-8260	98.0	12/22/2023	DLC
Toluene-d8	EPA-8260	97.4	12/22/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains lightly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group 18378-B Redmond Way Redmond, WA 98052-5012	DATE: 12/22/2023 ALS SDG#: EV23120182 WDOE ACCREDITATION: C601
CLIENT CONTACT:	Megan Richard	
CLIENT PROJECT:	MP-46	

LABORATORY BLANK RESULTS
MBG-122123S - Batch 205176 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	MG/KG	3.0	12/22/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

MB-122123S - Batch 205200 - Soil by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8260	U	UG/KG	5.0	12/21/2023	DLC
Toluene	EPA-8260	U	UG/KG	10	12/21/2023	DLC
Ethylbenzene	EPA-8260	U	UG/KG	10	12/21/2023	DLC
m,p-Xylene	EPA-8260	U	UG/KG	20	12/21/2023	DLC
o-Xylene	EPA-8260	U	UG/KG	10	12/21/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/22/2023
	18378-B Redmond Way	ALS SDG#:	EV23120182
	Redmond, WA 98052-5012	WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Megan Richard		
CLIENT PROJECT:	MP-46		

LABORATORY CONTROL SAMPLE RESULTS
ALS Test Batch ID: 205176 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
TPH-Volatile Range - BS	NWTPH-GX	103			66.5	122.7	12/22/2023	DLC
TPH-Volatile Range - BSD	NWTPH-GX	104	2		66.5	122.7	12/22/2023	DLC

ALS Test Batch ID: 205200 - Soil by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Benzene - BS	EPA-8260	98.2			75	138	12/21/2023	DLC
Benzene - BSD	EPA-8260	88.1	11		75	138	12/21/2023	DLC
Toluene - BS	EPA-8260	98.1			71.6	122.1	12/21/2023	DLC
Toluene - BSD	EPA-8260	87.8	11		71.6	122.1	12/21/2023	DLC
Ethylbenzene - BS	EPA-8260	98.9			50	150	12/21/2023	DLC
Ethylbenzene - BSD	EPA-8260	89.7	10		50	150	12/21/2023	DLC
m,p-Xylene - BS	EPA-8260	97.8			50	150	12/21/2023	DLC
m,p-Xylene - BSD	EPA-8260	88.0	10		50	150	12/21/2023	DLC
o-Xylene - BS	EPA-8260	98.3			50	150	12/21/2023	DLC
o-Xylene - BSD	EPA-8260	89.4	9		50	150	12/21/2023	DLC

APPROVED BY



Rob Greer
Laboratory Director



ALS Environmental
8620 Holly Drive, Suite 100
Everett, WA 98208
Phone (425) 356-2600
Fax (425) 356-2626
http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only)

EV23120182

Date 12/21/23 Page 1 Of 2

PROJECT ID: <u>MP-46</u>					ANALYSIS REQUESTED															OTHER (Specify)									
REPORT TO COMPANY: <u>Anteo Group</u>					NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA 8021	MTBE by EPA 8021	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM	PCB by EPA 8082	Pesticides by EPA 8081	Metals-MTCA-5	RCRA-8	Pri Pol	TAL	Metals Other (Specify)	TCLP-Metals	VOA	Semi-Vol	Pest	Herbs	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
PROJECT MANAGER: <u>Megan Richard</u>																													
ADDRESS: <u>18378-B Redmont Way</u> <u>Redmont WA</u>																													
PHONE: <u>206-854-0349</u> P.O. #:																													
E-MAIL: <u>Megan.Richard@AnteoGroup.VS</u>																													
INVOICE TO COMPANY: <u>Same as above</u>																													
ATTENTION: <u>Digital Solutions, Equis@AnteoGroup.VS</u>																													
ADDRESS: <u>Same as above</u>																													
SAMPLE I.D.	DATE	TIME	TYPE	LAB#																									
1. SW-S-6-12-2023/12/21	12/21/23	1220	Soil	1			X	X																					
2. SW-S-6-24-2023/12/21	↓	1225	↓	2			X	X																					
3. SW-N-6-12-2023/12/21	↓	1205	↓	3			X	X																					
4. SW-N-6-24-2023/12/21	↓	1210	↓	4			X	X																					
5. B-10-24-2023/12/21		1230		5			X	X																					
6. B-11-24-2023/12/21		1235		6			X	X																					
7. SW-N-8-12-2023/12/21		1400		7			X	X																					
8. SW-N-8-24-2023/12/21		1405		8			X	X																					
9. SW-S-8-12-2023/12/21		1410		9			X	X																					
10. SW-S-8-24-2023/12/21		1415		10			X	X																					

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Colin Dechene Anteo Group 12/21/23 1630

Received By: [Signature] Anteo 12/21/23 430

2. Relinquished By: _____

Received By: _____

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis

10 5 3 2 1 SAME DAY

Fuels & Hydrocarbon Analysis

5 3 1 SAME DAY

OTHER:

Specify: 24 hr TAT

*Turnaround request less than standard may incur Rush Charges



ALS Environmental
8620 Holly Drive, Suite 100
Everett, WA 98208
Phone (425) 356-2600
Fax (425) 356-2626
http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only)

E23120182

Date 12/21/23 Page 2 Of 2

PROJECT ID: MP-46					ANALYSIS REQUESTED															OTHER (Specify)																																																																																																										
REPORT TO COMPANY: Antea Group					<table border="1"> <tr> <td rowspan="5">NWTPH-HCID</td> <td rowspan="5">NWTPH-DX</td> <td rowspan="5">NWTPH-GX</td> <td>BTEX by EPA 8021</td> <td>BTEX by EPA 8260</td> <td>MTBE by EPA 8021</td> <td>MTBE by EPA 8260</td> <td>Halogenated Volatiles by EPA 8260</td> <td>Volatile Organic Compounds by EPA 8260</td> <td>EDB / EDC by EPA 8260 SIM (water)</td> <td>EDB / EDC by EPA 8260 (soil)</td> <td>Semivolatile Organic Compounds by EPA 8270</td> <td>Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM</td> <td>PCB by EPA 8082</td> <td>Pesticides by EPA 8081</td> <td>RCRA-8</td> <td>Pri Pol</td> <td>TAL</td> <td>Metals Other (Specify)</td> <td>VOA</td> <td>Semi-Vol</td> <td>Pest</td> <td>Herbs</td> <td rowspan="5">NUMBER OF CONTAINERS RECEIVED IN GOOD CONDITION?</td> </tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>															NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA 8021	BTEX by EPA 8260	MTBE by EPA 8021	MTBE by EPA 8260	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM	PCB by EPA 8082	Pesticides by EPA 8081	RCRA-8	Pri Pol	TAL	Metals Other (Specify)	VOA	Semi-Vol	Pest	Herbs	NUMBER OF CONTAINERS RECEIVED IN GOOD CONDITION?																																																																																			
NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA 8021	BTEX by EPA 8260																			MTBE by EPA 8021	MTBE by EPA 8260	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM	PCB by EPA 8082	Pesticides by EPA 8081	RCRA-8	Pri Pol	TAL	Metals Other (Specify)	VOA	Semi-Vol	Pest	Herbs	NUMBER OF CONTAINERS RECEIVED IN GOOD CONDITION?																																																																																					
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PHONE: 206-854-0399 P.O. #:																																																																																																																														
E-MAIL: Megan.Richard@AnteaGroup.com																																																																																																																														
INVOICE TO COMPANY: Same as above																																																																																																																														
ATTENTION: Digital Solutions - Equis@AnteaGroup.com																																																																																																																														
ADDRESS: Same as above																																																																																																																														
SAMPLE I.D.	DATE	TIME	TYPE	LAB#																																																																																																																										
1. B-14-24-2023/221	12/21/23	1420	Soil	11			X	X																																																																																																																						
2. B-15-24-2023/221		1425		12			X	X																																																																																																																						
3. SW-N-9-12		1430		13			X	X																																																																																																																						
4. SW-N-9-24		1435		14			X	X																																																																																																																						
5. SW-S-9-12		1440		15			X	X																																																																																																																						
6. SW-S-9-24		1445		16			X	X																																																																																																																						
7. B-16-24		1500		17			X	X																																																																																																																						
8. B-17-24		1515		18			X	X																																																																																																																						
9.																																																																																																																														
10.																																																																																																																														

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

- Relinquished By: Celine Dechenne 12/21/23 1630
Received By: [Signature] 12/21/23 4:30pm
- Relinquished By: _____
Received By: _____

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis

10	5	3	2	1	SAME DAY
----	---	---	---	---	----------

Fuels & Hydrocarbon Analysis

5	3	1	SAME DAY
---	---	---	----------

OTHER:

Specify: 24 hr
ASAP

*Turnaround request less than standard may incur Rush Charges

ALS ENVIRONMENTAL

Sample Receiving Checklist

Client: Antea Group ALS Job#: EV23120182

Project: MP-46

Login Date: 12/21/23 Login Time: 1630 Login By: RG

Type of Shipping Container: Cooler ☒ Box ☐ Other ☐

Shipped via: FedEx Ground ☐ UPS ☐ Courier ☐ Hand Delivered ☒ ALS Courier ☐
FedEx Express ☐

Yes No N/A

Were custody seals on outside of shipping container? ☐ ☐ ☒
If yes, how many? Where?
Custody seal date: Seal name:

Was Chain of Custody properly filled out (ink, signed, dated, etc.)? ☒ ☐ ☐

Did all bottles have labels? ☒ ☐ ☐

Did all bottle labels and tags agree with Chain of Custody? ☒ ☐ ☐

Were samples received within hold time? ☒ ☐ ☐

Did all bottles arrive in good condition (unbroken, etc.)? ☒ ☐ ☐

Was sufficient amount of sample sent for the tests indicated? ☒ ☐ ☐

Was correct preservation added to samples? ☒ ☐ ☐

Subcontract test containers added to Subcontract Bin? ☐ ☐ ☒

Wetchem test containers marked with required Tests? ☐ ☐ ☒

Short hold time test containers delivered to analysts? ☒ ☐ ☐

Were VOA vials checked for absence of air bubbles? ☐ ☐ ☒

Bubbles present in sample #:

5035A kits received? ☒ ☐ ☐

Low Kits: 18 # High Kits:

5035A kits returned? ☐ ☐ ☐

Low Kits: # High Kits:

Temperature of cooler upon receipt: 5.7 4.8°C On ice? ☒ ☐ ☐

Explain any discrepancies:

Was client contacted? Who was called? By whom? Date:

Outcome of call:



December 21, 2023

Ms. Megan Richard
Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012

Dear Ms. Richard,

On December 20th, 7 samples were received by our laboratory and assigned our laboratory project number EV23120172. The project was identified as your MP-46. The sample identification and requested analyses are outlined on the attached chain of custody record.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rob Greer
Laboratory Director



CLIENT: Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012

CLIENT CONTACT: Megan Richard

CLIENT PROJECT: MP-46

DATE: 12/21/2023
ALS JOB#: EV23120172
WDOE ACCREDITATION: C601

CASE NARRATIVE

TPH-Gasoline by NWTPH-Gx

Batch 205123, Method NWTPH-GX, Sample BGD-122023S, Surrogate TFT: The LCS and/or LCSD recovery were outside of control limits. However, MS/MSD recovery was within control limits. No corrective action taken.

TPH-Gasoline by NWTPH-Gx

Batch 205123, Method NWTPH-GX, Sample BG-122023S, Surrogate TFT: The LCS and/or LCSD recovery were outside of control limits. However, MS/MSD recovery was within control limits. No corrective action taken.



CERTIFICATE OF ANALYSIS

CLIENT: Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012
DATE: 12/21/2023
ALS JOB#: EV23120172
ALS SAMPLE#: EV23120172-01
CLIENT CONTACT: Megan Richard
DATE RECEIVED: 12/20/2023
CLIENT PROJECT: MP-46
COLLECTION DATE: 12/20/2023 3:15:00 PM
CLIENT SAMPLE ID: SW-N-5_12_20231220
WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/21/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/21/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	94.3	12/21/2023	MNC
Toluene-d8	EPA-8260	96.4	12/21/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120172
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120172-02
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/20/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/20/2023 3:22:00 PM
CLIENT SAMPLE ID	SW-N-5_24_20231220	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/21/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/21/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	92.1	12/21/2023	MNC
Toluene-d8	EPA-8260	98.1	12/21/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120172
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120172-03
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/20/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/20/2023 3:30:00 PM
CLIENT SAMPLE ID	SW-S-5_12_20231220	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/21/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/21/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	107	12/21/2023	MNC
Toluene-d8	EPA-8260	97.7	12/21/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120172
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120172-04
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/20/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/20/2023 3:33:00 PM
CLIENT SAMPLE ID	SW-S-5_24_20231220	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/21/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/21/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	96.3	12/21/2023	MNC
Toluene-d8	EPA-8260	96.9	12/21/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120172
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120172-05
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/20/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/20/2023 3:20:00 PM
CLIENT SAMPLE ID	B-8_24_20231220	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	12	3.0	1	MG/KG	12/21/2023	MNC
Benzene	EPA-8260	45	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	2100	11	1	UG/KG	12/21/2023	DLC
Ethylbenzene	EPA-8260	43	10	1	UG/KG	12/21/2023	DLC
m,p-Xylene	EPA-8260	870	31	1	UG/KG	12/21/2023	DLC
o-Xylene	EPA-8260	380	20	1	UG/KG	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	94.6	12/21/2023	MNC
Toluene-d8	EPA-8260	92.8	12/21/2023	DLC
Toluene-d8	EPA-8260	98.8	12/21/2023	DLC

Chromatogram indicates that it is likely that sample contains weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120172
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120172-06
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/20/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/20/2023 3:28:00 PM
CLIENT SAMPLE ID	B-9_24_20231220	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	6.2	3.0	1	MG/KG	12/21/2023	MNC
Benzene	EPA-8260	60	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	1600	16	1	UG/KG	12/21/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/21/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	101	12/21/2023	MNC
Toluene-d8	EPA-8260	98.4	12/21/2023	DLC
Toluene-d8	EPA-8260	98.8	12/21/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains highly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group 18378-B Redmond Way Redmond, WA 98052-5012	DATE:	12/21/2023
		ALS JOB#:	EV23120172
CLIENT CONTACT:	Megan Richard	ALS SAMPLE#:	EV23120172-07
CLIENT PROJECT:	MP-46	DATE RECEIVED:	12/20/2023
CLIENT SAMPLE ID	TB_20231220	COLLECTION DATE:	12/20/2023
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8260	U	2.0	1	UG/L	12/21/2023	DLC
Toluene	EPA-8260	U	2.0	1	UG/L	12/21/2023	DLC
Ethylbenzene	EPA-8260	U	2.0	1	UG/L	12/21/2023	DLC
m,p-Xylene	EPA-8260	U	4.0	1	UG/L	12/21/2023	DLC
o-Xylene	EPA-8260	U	2.0	1	UG/L	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
Toluene-d8	EPA-8260	99.5	12/21/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT: Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012
DATE: 12/21/2023
ALS SDG#: EV23120172
WDOE ACCREDITATION: C601

CLIENT CONTACT: Megan Richard
CLIENT PROJECT: MP-46

LABORATORY BLANK RESULTS

MBG-122023S - Batch 205123 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	MG/KG	3.0	12/20/2023	MNC

U - Analyte analyzed for but not detected at level above reporting limit.

MB-122023S - Batch 205133 - Soil by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8260	U	UG/KG	5.0	12/20/2023	DLC
Toluene	EPA-8260	U	UG/KG	10	12/20/2023	DLC
Ethylbenzene	EPA-8260	U	UG/KG	10	12/20/2023	DLC
m,p-Xylene	EPA-8260	U	UG/KG	20	12/20/2023	DLC
o-Xylene	EPA-8260	U	UG/KG	10	12/20/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

MB-121923W - Batch 205143 - Water by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8260	U	UG/L	2.0	12/21/2023	DLC
Toluene	EPA-8260	U	UG/L	2.0	12/21/2023	DLC
Ethylbenzene	EPA-8260	U	UG/L	2.0	12/21/2023	DLC
m,p-Xylene	EPA-8260	U	UG/L	4.0	12/21/2023	DLC
o-Xylene	EPA-8260	U	UG/L	2.0	12/21/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT: Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012
DATE: 12/21/2023
ALS SDG#: EV23120172
WDOE ACCREDITATION: C601

CLIENT CONTACT: Megan Richard
CLIENT PROJECT: MP-46

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 205123 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
TPH-Volatile Range - BS	NWTPH-GX	107			66.5	122.7	12/20/2023	MNC
TPH-Volatile Range - BSD	NWTPH-GX	104	3		66.5	122.7	12/20/2023	MNC

SURROGATE	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
TFT - BS	NWTPH-GX	8.08		SQ6	60	140	12/20/2023	MNC
TFT - BSD	NWTPH-GX	7.93		SQ6	60	140	12/20/2023	MNC

SQ6 - The LCS and/or LCSD recovery were outside of control limits. However, MS/MSD recovery was within control limits. No corrective action taken.

ALS Test Batch ID: 205133 - Soil by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Benzene - BS	EPA-8260	94.9			75	138	12/20/2023	DLC
Benzene - BSD	EPA-8260	98.2	3		75	138	12/20/2023	DLC
Toluene - BS	EPA-8260	96.1			71.6	122.1	12/20/2023	DLC
Toluene - BSD	EPA-8260	97.7	2		71.6	122.1	12/20/2023	DLC
Ethylbenzene - BS	EPA-8260	98.6			50	150	12/20/2023	DLC
Ethylbenzene - BSD	EPA-8260	102	3		50	150	12/20/2023	DLC
m,p-Xylene - BS	EPA-8260	96.4			50	150	12/20/2023	DLC
m,p-Xylene - BSD	EPA-8260	100	4		50	150	12/20/2023	DLC
o-Xylene - BS	EPA-8260	97.2			50	150	12/20/2023	DLC
o-Xylene - BSD	EPA-8260	101	4		50	150	12/20/2023	DLC

ALS Test Batch ID: 205143 - Water by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Benzene - BS	EPA-8260	98.2			74.7	143	12/21/2023	DLC
Benzene - BSD	EPA-8260	88.1	11		74.7	143	12/21/2023	DLC
Toluene - BS	EPA-8260	98.1			71.7	139	12/21/2023	DLC
Toluene - BSD	EPA-8260	87.8	11		71.7	139	12/21/2023	DLC
Ethylbenzene - BS	EPA-8260	98.9			50	150	12/21/2023	DLC
Ethylbenzene - BSD	EPA-8260	89.7	10		50	150	12/21/2023	DLC
m,p-Xylene - BS	EPA-8260	97.8			50	150	12/21/2023	DLC
m,p-Xylene - BSD	EPA-8260	88.0	10		50	150	12/21/2023	DLC
o-Xylene - BS	EPA-8260	98.3			50	150	12/21/2023	DLC
o-Xylene - BSD	EPA-8260	89.4	9		50	150	12/21/2023	DLC

CERTIFICATE OF ANALYSIS

APPROVED BY

Rob Greer
Laboratory Director



ALS Environmental
8620 Holly Drive, Suite 100
Everett, WA 98208
Phone (425) 356-2600
Fax (425) 356-2626
http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only)

EV23120172

Date _____ Page _____ Of _____

PROJECT ID: MP-46					ANALYSIS REQUESTED															OTHER (Specify)																													
REPORT TO COMPANY: Antea Group					NWTPH-HCID NWTPH-DX NWTPH-GX BTEX by EPA 8260 MTBE by EPA 8260 Halogenated Volatiles by EPA 8260 Volatile Organic Compounds by EPA 8260 EDB / EDC by EPA 8260 SIM (water) EDB / EDC by EPA 8260 (soil) Semivolatile Organic Compounds by EPA 8270 Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM PCB by EPA 8082 Pesticides by EPA 8081 Metals-MTCA-5 RCFA-8 TAL Metals Other (Specify) TCLP-Metals VOA Semi-Vol Pest Herbs															NUMBER OF CONTAINERS RECEIVED IN GOOD CONDITION?																													
PROJECT MANAGER: Megan Richard																																																	
ADDRESS: 18372-B Redmond Way																																																	
Redmond, WA																																																	
PHONE: 206-854-0344																																																	
E-MAIL: Megan.Richard@AnteaGroup.US																																																	
INVOICE TO COMPANY: Same as above																																																	
ATTENTION: Digital Solutions EQUIP Antea Group US																																																	
ADDRESS: Same as above																																																	
SAMPLE I.D.					DATE					TIME					TYPE					LAB#																													
1. SW-N-5-12-20231220					12/20/23					1515					Soil					1																													
2. SW-N-5-24-20231220					12/20/23					1522					↓					2																													
3. SW-S-5-12-20231220										1530										3																													
4. SW-S-5-24-20231220										1533										4																													
5. B-8-24-20231220										1520										5																													
6. B-A-24-20231220										1528										6																													
7. TD-20231220										0000					Water					7																													
8.																																																	
9.																																																	
10.																																																	

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

- Relinquished By: Colin Dechenne, Antea Group, 12/20/23, 1800
Received By: ALS 12/20/23 18W
- Relinquished By: _____
Received By: _____

TURNAROUND REQUESTED in Business Days*
Organic, Metals & Inorganic Analysis OTHER:

10	5	3	2	1	SAME DAY
Fuels & Hydrocarbon Analysis					
5	3	1	SAME DAY		
Standard					

Specify: 24 hr
ASAP

*Turnaround request less than standard may incur Rush Charges

ALS ENVIRONMENTAL

Sample Receiving Checklist

Client: Artesia ALS Job#: CV 2312072

Project: MP-46

Login Date: 12/20/23 Login Time: 1800 Login By: CM

Type of Shipping Container: Cooler ☒ Box ☐ Other ☐

Shipped via: FedEx Ground ☐ UPS ☐ Courier ☐ Hand Delivered ☐ ALS Courier ☒
FedEx Express ☐

Yes No N/A

Were custody seals on outside of shipping container? ☐ ☒ ☐
If yes, how many? Where?
Custody seal date: Seal name:

Was Chain of Custody properly filled out (ink, signed, dated, etc.)? ☒ ☐ ☐

Did all bottles have labels? ☒ ☐ ☐

Did all bottle labels and tags agree with Chain of Custody? ☒ ☐ ☐

Were samples received within hold time? ☒ ☐ ☐

Did all bottles arrive in good condition (unbroken, etc.)? ☒ ☐ ☐

Was sufficient amount of sample sent for the tests indicated? ☒ ☐ ☐

Was correct preservation added to samples? ☒ ☐ ☐

Subcontract test containers added to Subcontract Bin? ☐ ☐ ☒

Wetchem test containers marked with required Tests? ☐ ☐ ☒

Short hold time test containers delivered to analysts? ☐ ☐ ☒

Were VOA vials checked for absence of air bubbles? ☐ ☐ ☒

Bubbles present in sample #:

5035A kits received? 6 # Low Kits: # High Kits: ☒ ☐ ☐

5035A kits returned? # Low Kits: # High Kits: ☐ ☐ ☐

Temperature of cooler upon receipt: 1.4C On ice? ☒ ☐ ☐

Explain any discrepancies:

Was client contacted? Who was called? By whom? Date:

Outcome of call:



December 21, 2023

Ms. Megan Richard
Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012

Dear Ms. Richard,

On December 20th, 9 samples were received by our laboratory and assigned our laboratory project number EV23120171. The project was identified as your MP-46. The sample identification and requested analyses are outlined on the attached chain of custody record.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rob Greer
Laboratory Director



CLIENT: Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012
CLIENT CONTACT: Megan Richard
CLIENT PROJECT: MP-46

DATE: 12/21/2023
ALS JOB#: EV23120171
WDOE ACCREDITATION: C601

CASE NARRATIVE

TPH-Gasoline by NWTPH-Gx

Batch 205123, Method NWTPH-GX, Sample BGD-122023S, Surrogate TFT: The LCS and/or LCSD recovery were outside of control limits. However, MS/MSD recovery was within control limits. No corrective action taken.

TPH-Gasoline by NWTPH-Gx

Batch 205123, Method NWTPH-GX, Sample BG-122023S, Surrogate TFT: The LCS and/or LCSD recovery were outside of control limits. However, MS/MSD recovery was within control limits. No corrective action taken.



CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120171
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120171-01
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/20/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/20/2023 10:25:00 AM
CLIENT SAMPLE ID	SW-S-3_12_20231220	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/20/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/20/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/20/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	95.8	12/20/2023	MNC
Toluene-d8	EPA-8260	100	12/20/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120171
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120171-02
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/20/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/20/2023 10:45:00 AM
CLIENT SAMPLE ID	SW-S-3_24_20231220	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/20/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/20/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/20/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	116	12/20/2023	MNC
Toluene-d8	EPA-8260	96.6	12/20/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120171
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120171-03
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/20/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/20/2023 1:30:00 PM
CLIENT SAMPLE ID	SW-S-4_12_20231220	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/20/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/21/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	98.2	12/20/2023	MNC
Toluene-d8	EPA-8260	97.5	12/21/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120171
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120171-04
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/20/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/20/2023 1:40:00 PM
CLIENT SAMPLE ID	SW-S-4_24_20231220	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/21/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/21/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	95.1	12/21/2023	MNC
Toluene-d8	EPA-8260	95.9	12/21/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120171
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120171-05
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/20/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/20/2023 1:52:00 PM
CLIENT SAMPLE ID	SW-N-4_12_20231220	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/21/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/21/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	104	12/21/2023	MNC
Toluene-d8	EPA-8260	96.5	12/21/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120171
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120171-06
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/20/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/20/2023 2:00:00 PM
CLIENT SAMPLE ID	SW-N-4_24_20231220	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/21/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/21/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	95.5	12/21/2023	MNC
Toluene-d8	EPA-8260	95.4	12/21/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120171
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120171-07
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/20/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/20/2023 10:30:00 AM
CLIENT SAMPLE ID	B-5_24_20231220	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	4.1	3.0	1	MG/KG	12/21/2023	MNC
Benzene	EPA-8260	26	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	55	10	1	UG/KG	12/21/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/21/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	118	12/21/2023	MNC
Toluene-d8	EPA-8260	97.3	12/21/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains highly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120171
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120171-08
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/20/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/20/2023 1:50:00 PM
CLIENT SAMPLE ID	B-6_24_20231220	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	9.4	3.0	1	MG/KG	12/21/2023	MNC
Benzene	EPA-8260	40	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	1800	10	1	UG/KG	12/21/2023	DLC
Ethylbenzene	EPA-8260	22	10	1	UG/KG	12/21/2023	DLC
m,p-Xylene	EPA-8260	59	20	1	UG/KG	12/21/2023	DLC
o-Xylene	EPA-8260	53	10	1	UG/KG	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	95.6	12/21/2023	MNC
Toluene-d8	EPA-8260	96.4	12/21/2023	DLC
Toluene-d8	EPA-8260	98.7	12/21/2023	DLC

Chromatogram indicates that it is likely that sample contains weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120171
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120171-09
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/20/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/20/2023 1:51:00 PM
CLIENT SAMPLE ID	B-7_24_20231220	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/21/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/21/2023	DLC
Toluene	EPA-8260	10	10	1	UG/KG	12/21/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/21/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/21/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	93.1	12/21/2023	MNC
Toluene-d8	EPA-8260	94.4	12/21/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group 18378-B Redmond Way Redmond, WA 98052-5012	DATE: 12/21/2023 ALS SDG#: EV23120171 WDOE ACCREDITATION: C601
CLIENT CONTACT:	Megan Richard	
CLIENT PROJECT:	MP-46	

LABORATORY BLANK RESULTS
MBG-122023S - Batch 205123 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	MG/KG	3.0	12/20/2023	MNC

U - Analyte analyzed for but not detected at level above reporting limit.

MB-122023S - Batch 205133 - Soil by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8260	U	UG/KG	5.0	12/20/2023	DLC
Toluene	EPA-8260	U	UG/KG	10	12/20/2023	DLC
Ethylbenzene	EPA-8260	U	UG/KG	10	12/20/2023	DLC
m,p-Xylene	EPA-8260	U	UG/KG	20	12/20/2023	DLC
o-Xylene	EPA-8260	U	UG/KG	10	12/20/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS SDG#:	EV23120171
	Redmond, WA 98052-5012	WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Megan Richard		
CLIENT PROJECT:	MP-46		

LABORATORY CONTROL SAMPLE RESULTS
ALS Test Batch ID: 205123 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
TPH-Volatile Range - BS	NWTPH-GX	107			66.5	122.7	12/20/2023	MNC
TPH-Volatile Range - BSD	NWTPH-GX	104	3		66.5	122.7	12/20/2023	MNC

SURROGATE	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
TFT - BS	NWTPH-GX	8.08		SQ6	60	140	12/20/2023	MNC
TFT - BSD	NWTPH-GX	7.93		SQ6	60	140	12/20/2023	MNC

SQ6 - The LCS and/or LCSD recovery were outside of control limits. However, MS/MSD recovery was within control limits. No corrective action taken.

ALS Test Batch ID: 205133 - Soil by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Benzene - BS	EPA-8260	94.9			75	138	12/20/2023	DLC
Benzene - BSD	EPA-8260	98.2	3		75	138	12/20/2023	DLC
Toluene - BS	EPA-8260	96.1			71.6	122.1	12/20/2023	DLC
Toluene - BSD	EPA-8260	97.7	2		71.6	122.1	12/20/2023	DLC
Ethylbenzene - BS	EPA-8260	98.6			50	150	12/20/2023	DLC
Ethylbenzene - BSD	EPA-8260	102	3		50	150	12/20/2023	DLC
m,p-Xylene - BS	EPA-8260	96.4			50	150	12/20/2023	DLC
m,p-Xylene - BSD	EPA-8260	100	4		50	150	12/20/2023	DLC
o-Xylene - BS	EPA-8260	97.2			50	150	12/20/2023	DLC
o-Xylene - BSD	EPA-8260	101	4		50	150	12/20/2023	DLC

CERTIFICATE OF ANALYSIS

CLIENT: Antea Group
 18378-B Redmond Way
 Redmond, WA 98052-5012
CLIENT CONTACT: Megan Richard
CLIENT PROJECT: MP-46

DATE: 12/21/2023
ALS SDG#: EV23120171
WDOE ACCREDITATION: C601

MATRIX SPIKE RESULTS
ALS Test Batch ID: 205123 - Soil
Parent Sample: SW-S-3_12_20231220

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	SPIKE ADDED	PARENT SAMPLE RESULT	CALC RESULT*	MIN	MAX	RPD	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range - MS	NWTPH-GX	88.7			19.3	1.0	17.1	66.5	122.7		12/20/2023	MNC
TPH-Volatile Range - MSD	NWTPH-GX	109	19	SR1	19.3	1.0	21.0 SR1	66.5	122.7	15	12/20/2023	MNC

SR1 - RPD outside of control limits.

*Calc Result = (Sample Result - Parent Sample Result)

APPROVED BY



 Rob Greer
 Laboratory Director



ALS Environmental
8620 Holly Drive, Suite 100
Everett, WA 98208
Phone (425) 356-2600
Fax (425) 356-2626
http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only)

EV23120171

Date 12/20/2023 Page 1 Of 1

PROJECT ID: MP-46					ANALYSIS REQUESTED															OTHER (Specify)								
REPORT TO COMPANY: Antea Group					NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA 8021	MTBE by EPA 8021	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM	PCB by EPA 8082	Pesticides by EPA 8081	TAL	RCRA-8	Ph Pol	Metals Other (Specify)	VOA	Semi-Vol	Pest	Herbs	TCLP-Metals	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
PROJECT MANAGER: Megan Richard																												
ADDRESS: 18378 - B Redmont Way																												
Redmont, WA																												
PHONE: 206-854-0344 P.O. #:																												
E-MAIL: Megan.Richard@Anteagroup.us																												
INVOICE TO COMPANY: Same as above																												
ATTENTION: Digital Solutions, EQUIS@Anteagroup.us																												
ADDRESS: Same as above																												
SAMPLE I.D.	DATE	TIME	TYPE	LAB#																								
1. SW-5-3-12-2023	12/20/23	1025	Soil	1			X	X																				
2. SW-5-3-24-2023	12/20	1045		2			X	X																				
3. SW-5-4-12-2023	12/20	1330		3			X	X																				
4. SW-5-4-24-2023	12/20	1340		4			X	X																				
5. SW-N-4-12-2023	12/20/23	1352		5			X	X																				
6. SW-N-4-24-2023	12/20	1400		6			X	X																				
7. B-5-24-2023	12/20	1030		7			X	X																				
8. B-6-24-2023	12/20	1350		8			X	X																				
9. B-7-24-2023	12/20	1351		9			X	X																				
10.																												

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Colin Dechem, Antea Group, 12/20/23 1500

Received By: AFRESE, ALS, AFRESE @1500

2. Relinquished By:

Received By:

TURNAROUND REQUESTED in Business Days* (24 hrs)
Organic, Metals & Inorganic Analysis OTHER:

10 5 3 2 1 SAME DAY

Fuels & Hydrocarbon Analysis

5 3 1 SAME DAY

Specify: _____

*Turnaround request less than standard may incur Rush Charges

ALS ENVIRONMENTAL

Sample Receiving Checklist

Client: Antea Grove ALS Job#: Ev23120171

Project: MP-46

Login Date: 12-20-23 Login Time: 15:00 Login By: MH

Type of Shipping Container: Cooler ☒ Box ☐ Other ☐

Shipped via: FedEx Ground ☐ UPS ☐ Courier ☐ Hand Delivered ☐ ALS Courier ☒
FedEx Express ☐

	Yes	No	N/A
Were custody seals on outside of shipping container?		☒	
If yes, how many? _____ Where? _____			
Custody seal date: _____ Seal name: _____			
Was Chain of Custody properly filled out (ink, signed, dated, etc.)?	☒		
Did all bottles have labels?	☒		
Did all bottle labels and tags agree with Chain of Custody?	☒		
Were samples received within hold time?	☒		
Did all bottles arrive in good condition (unbroken, etc.)?	☒		
Was sufficient amount of sample sent for the tests indicated?	☒		
Was correct preservation added to samples?	☒		
Subcontract test containers added to Subcontract Bin?			☒
Wetchem test containers marked with required Tests?			☒
Short hold time test containers delivered to analysts?	☒		
Were VOA vials checked for absence of air bubbles?			☒
Bubbles present in sample #: _____			

5035A kits received? 9 ☒ # Low Kits: 9 # High Kits: _____

5035A kits returned? # Low Kits: _____ # High Kits: _____

Temperature of cooler upon receipt: 7.0°C On ice? ☒

Explain any discrepancies:

Was client contacted? _____ Who was called? _____ By whom? _____ Date: _____

Outcome of call:



December 21, 2023

Ms. Megan Richard
Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012

Dear Ms. Richard,

On December 19th, 21 samples were received by our laboratory and assigned our laboratory project number EV23120155. The project was identified as your MP-46. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rob Greer
Laboratory Director

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120155
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120155-01
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/19/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/19/2023 1:30:00 PM
CLIENT SAMPLE ID	B-1_24_20231219	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	17	3.0	1	MG/KG	12/19/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/20/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/20/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	95.9	12/19/2023	MNC
Toluene-d8	EPA-8260	98.7	12/20/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains highly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120155
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120155-02
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/19/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/19/2023 1:40:00 PM
CLIENT SAMPLE ID	SW-N-1_12_20231219	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	110	30	10	MG/KG	12/20/2023	MNC
Benzene	EPA-8260	1200	180	10	UG/KG	12/20/2023	DLC
Toluene	EPA-8260	17000	100	10	UG/KG	12/20/2023	DLC
Ethylbenzene	EPA-8260	1400	150	10	UG/KG	12/20/2023	DLC
m,p-Xylene	EPA-8260	5900	290	10	UG/KG	12/20/2023	DLC
o-Xylene	EPA-8260	2400	180	10	UG/KG	12/20/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 10X Dilution	NWTPH-GX	107	12/20/2023	MNC
Toluene-d8 10X Dilution	EPA-8260	98.3	12/20/2023	DLC

Chromatogram indicates that it is likely that sample contains lightly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120155
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120155-03
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/19/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/19/2023 3:30:00 PM
CLIENT SAMPLE ID	SW-N-1_24_20231219	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	5.0	1	MG/KG	12/19/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/20/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/20/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	89.4	12/19/2023	MNC
Toluene-d8	EPA-8260	99.3	12/20/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
Gasoline range reporting limit raised due to semivolatile range product overlap.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120155
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120155-04
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/19/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/19/2023 2:40:00 PM
CLIENT SAMPLE ID	SW-S-1_12_20231219	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	54	3.0	1	MG/KG	12/19/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/20/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/20/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	91.5	12/19/2023	MNC
Toluene-d8	EPA-8260	98.9	12/20/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
 Chromatogram indicates that it is likely that sample contains highly weathered gasoline.
 Gasoline range product results biased high due to semivolatile range product overlap.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120155
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120155-05
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/19/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/19/2023 11:50:00 AM
CLIENT SAMPLE ID	SW-S-1_24_20231219	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	8.2	3.0	1	MG/KG	12/19/2023	MNC
Benzene	EPA-8260	6.2	5.0	1	UG/KG	12/20/2023	DLC
Toluene	EPA-8260	280	12	1	UG/KG	12/20/2023	DLC
Ethylbenzene	EPA-8260	12	10	1	UG/KG	12/20/2023	DLC
m,p-Xylene	EPA-8260	44	20	1	UG/KG	12/20/2023	DLC
o-Xylene	EPA-8260	23	10	1	UG/KG	12/20/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	91.5	12/19/2023	MNC
Toluene-d8	EPA-8260	95.9	12/20/2023	DLC
Toluene-d8	EPA-8260	97.9	12/20/2023	DLC

Chromatogram indicates that it is likely that sample contains highly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group 18378-B Redmond Way Redmond, WA 98052-5012	DATE:	12/21/2023
		ALS JOB#:	EV23120155
		ALS SAMPLE#:	EV23120155-06
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/19/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/19/2023 3:00:00 PM
CLIENT SAMPLE ID	B-2_24_20231219	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/19/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/20/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/20/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	88.4	12/19/2023	MNC
Toluene-d8	EPA-8260	99.0	12/20/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120155
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120155-07
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/19/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/19/2023 1:50:00 PM
CLIENT SAMPLE ID	SW-N-2_12_20231219	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/19/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/20/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/20/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	95.1	12/19/2023	MNC
Toluene-d8	EPA-8260	100	12/20/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120155
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120155-08
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/19/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/19/2023 2:30:00 PM
CLIENT SAMPLE ID	SW-N-2_24_20231219	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	6.8	3.0	1	MG/KG	12/19/2023	MNC
Benzene	EPA-8260	210	23	1	UG/KG	12/20/2023	DLC
Toluene	EPA-8260	1700	14	1	UG/KG	12/20/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/20/2023	DLC
o-Xylene	EPA-8260	11	10	1	UG/KG	12/20/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	84.6	12/19/2023	MNC
Toluene-d8	EPA-8260	98.4	12/20/2023	DLC
Toluene-d8	EPA-8260	98.7	12/20/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains highly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120155
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120155-09
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/19/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/19/2023 2:15:00 PM
CLIENT SAMPLE ID	B-3_24_20231219	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	24	3.0	1	MG/KG	12/19/2023	MNC
Benzene	EPA-8260	550	18	1	UG/KG	12/20/2023	DLC
Toluene	EPA-8260	5200	110	10	UG/KG	12/20/2023	DLC
Ethylbenzene	EPA-8260	300	15	1	UG/KG	12/20/2023	DLC
m,p-Xylene	EPA-8260	1000	30	1	UG/KG	12/20/2023	DLC
o-Xylene	EPA-8260	480	19	1	UG/KG	12/20/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	90.2	12/19/2023	MNC
Toluene-d8 10X Dilution	EPA-8260	98.7	12/20/2023	DLC
Toluene-d8	EPA-8260	97.7	12/20/2023	DLC

Chromatogram indicates that it is likely that sample contains lightly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120155
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120155-10
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/19/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/19/2023 2:00:00 PM
CLIENT SAMPLE ID	SW-N-3_12_20231219	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	13	3.0	1	MG/KG	12/19/2023	MNC
Benzene	EPA-8260	24	5.0	1	UG/KG	12/20/2023	DLC
Toluene	EPA-8260	2500	20	1	UG/KG	12/20/2023	DLC
Ethylbenzene	EPA-8260	24	10	1	UG/KG	12/20/2023	DLC
m,p-Xylene	EPA-8260	110	20	1	UG/KG	12/20/2023	DLC
o-Xylene	EPA-8260	510	35	1	UG/KG	12/20/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	107	12/19/2023	MNC
Toluene-d8	EPA-8260	97.9	12/20/2023	DLC
Toluene-d8	EPA-8260	98.8	12/20/2023	DLC

Chromatogram indicates that it is likely that sample contains weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group 18378-B Redmond Way Redmond, WA 98052-5012	DATE:	12/21/2023
		ALS JOB#:	EV23120155
		ALS SAMPLE#:	EV23120155-11
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/19/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/19/2023 2:10:00 PM
CLIENT SAMPLE ID	SW-N-3_24_20231219	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	17	3.0	1	MG/KG	12/20/2023	MNC
Benzene	EPA-8260	230	30	1	UG/KG	12/20/2023	DLC
Toluene	EPA-8260	3000	18	1	UG/KG	12/20/2023	DLC
Ethylbenzene	EPA-8260	170	25	1	UG/KG	12/20/2023	DLC
m,p-Xylene	EPA-8260	780	50	1	UG/KG	12/20/2023	DLC
o-Xylene	EPA-8260	330	32	1	UG/KG	12/20/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	97.4	12/20/2023	MNC
Toluene-d8	EPA-8260	99.4	12/20/2023	DLC

Chromatogram indicates that it is likely that sample contains weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120155
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120155-12
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/19/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/19/2023 2:50:00 PM
CLIENT SAMPLE ID	SW-E-1_12_20231219	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/20/2023	MNC
Benzene	EPA-8260	12	5.0	1	UG/KG	12/20/2023	DLC
Toluene	EPA-8260	230	17	1	UG/KG	12/20/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC
m,p-Xylene	EPA-8260	21	20	1	UG/KG	12/20/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	100	12/20/2023	MNC
Toluene-d8	EPA-8260	99.6	12/20/2023	DLC
Toluene-d8	EPA-8260	99.3	12/20/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120155
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120155-13
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/19/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/19/2023 2:50:00 PM
CLIENT SAMPLE ID	SW-E-1_24_20231219	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/20/2023	MNC
Benzene	EPA-8260	8.5	5.0	1	UG/KG	12/20/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/20/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	96.6	12/20/2023	MNC
Toluene-d8	EPA-8260	99.1	12/20/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120155
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120155-14
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/19/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/19/2023 3:20:00 PM
CLIENT SAMPLE ID	SW-W-1_12_20231219	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	6.6	3.0	1	MG/KG	12/20/2023	MNC
Benzene	EPA-8260	1000	28	1	UG/KG	12/20/2023	DLC
Toluene	EPA-8260	1700	17	1	UG/KG	12/20/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC
m,p-Xylene	EPA-8260	28	20	1	UG/KG	12/20/2023	DLC
o-Xylene	EPA-8260	13	10	1	UG/KG	12/20/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	100	12/20/2023	MNC
Toluene-d8	EPA-8260	99.3	12/20/2023	DLC
Toluene-d8	EPA-8260	99.3	12/20/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains highly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120155
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120155-15
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/19/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/19/2023 3:50:00 PM
CLIENT SAMPLE ID	SW-E-2_24_20231219	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/20/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/20/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/20/2023	DLC
o-Xylene	EPA-8260	27	10	1	UG/KG	12/20/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	81.7	12/20/2023	MNC
Toluene-d8	EPA-8260	97.4	12/20/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120155
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120155-16
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/19/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/19/2023 4:40:00 PM
CLIENT SAMPLE ID	SW-E-3_12_20231219	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	44	3.0	1	MG/KG	12/20/2023	MNC
Benzene	EPA-8260	6.8	5.0	1	UG/KG	12/19/2023	DLC
Toluene	EPA-8260	3500	13	1	UG/KG	12/20/2023	DLC
Ethylbenzene	EPA-8260	390	18	1	UG/KG	12/20/2023	DLC
m,p-Xylene	EPA-8260	2800	36	1	UG/KG	12/20/2023	DLC
o-Xylene	EPA-8260	1300	23	1	UG/KG	12/20/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	107	12/20/2023	MNC
Toluene-d8	EPA-8260	107	12/19/2023	DLC
Toluene-d8	EPA-8260	96.3	12/20/2023	DLC

Chromatogram indicates that it is likely that sample contains weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120155
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120155-17
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/19/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/19/2023 5:00:00 PM
CLIENT SAMPLE ID	SW-S-2_12_20231219	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/20/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/19/2023	DLC
Toluene	EPA-8260	17	10	1	UG/KG	12/19/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/19/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/19/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/19/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	98.4	12/20/2023	MNC
Toluene-d8	EPA-8260	99.5	12/19/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120155
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120155-18
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/19/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/19/2023 3:50:00 PM
CLIENT SAMPLE ID	SW-E-2_12_20231219	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/20/2023	MNC
Benzene	EPA-8260	22	5.0	1	UG/KG	12/19/2023	DLC
Toluene	EPA-8260	77	14	1	UG/KG	12/20/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/19/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/19/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/19/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	87.4	12/20/2023	MNC
Toluene-d8	EPA-8260	98.9	12/19/2023	DLC
Toluene-d8	EPA-8260	99.5	12/20/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120155
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120155-19
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/19/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/19/2023 4:55:00 PM
CLIENT SAMPLE ID	SW-E-3_24_20231219	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	170	30	10	MG/KG	12/20/2023	MNC
Benzene	EPA-8260	550	250	10	UG/KG	12/20/2023	DLC
Toluene	EPA-8260	12000	150	10	UG/KG	12/20/2023	DLC
Ethylbenzene	EPA-8260	2600	210	10	UG/KG	12/20/2023	DLC
m,p-Xylene	EPA-8260	11000	410	10	UG/KG	12/20/2023	DLC
o-Xylene	EPA-8260	4400	260	10	UG/KG	12/20/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 10X Dilution	NWTPH-GX	96.4	12/20/2023	MNC
Toluene-d8 10X Dilution	EPA-8260	96.8	12/20/2023	DLC

Chromatogram indicates that it is likely that sample contains lightly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group 18378-B Redmond Way Redmond, WA 98052-5012	DATE:	12/21/2023
		ALS JOB#:	EV23120155
CLIENT CONTACT:	Megan Richard	ALS SAMPLE#:	EV23120155-20
CLIENT PROJECT:	MP-46	DATE RECEIVED:	12/19/2023
CLIENT SAMPLE ID	SW-S-2_24_20231219	COLLECTION DATE:	12/19/2023 5:10:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	12/20/2023	MNC
Benzene	EPA-8260	U	5.0	1	UG/KG	12/19/2023	DLC
Toluene	EPA-8260	U	10	1	UG/KG	12/19/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/19/2023	DLC
m,p-Xylene	EPA-8260	U	20	1	UG/KG	12/19/2023	DLC
o-Xylene	EPA-8260	U	10	1	UG/KG	12/19/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	103	12/20/2023	MNC
Toluene-d8	EPA-8260	98.2	12/19/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS JOB#:	EV23120155
	Redmond, WA 98052-5012	ALS SAMPLE#:	EV23120155-21
CLIENT CONTACT:	Megan Richard	DATE RECEIVED:	12/19/2023
CLIENT PROJECT:	MP-46	COLLECTION DATE:	12/19/2023 4:25:00 PM
CLIENT SAMPLE ID	B-4_24_20231219	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	12	3.0	1	MG/KG	12/20/2023	MNC
Benzene	EPA-8260	720	29	1	UG/KG	12/20/2023	DLC
Toluene	EPA-8260	3000	17	1	UG/KG	12/20/2023	DLC
Ethylbenzene	EPA-8260	U	10	1	UG/KG	12/20/2023	DLC
m,p-Xylene	EPA-8260	28	20	1	UG/KG	12/20/2023	DLC
o-Xylene	EPA-8260	14	10	1	UG/KG	12/20/2023	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	101	12/20/2023	MNC
Toluene-d8	EPA-8260	100	12/20/2023	DLC
Toluene-d8	EPA-8260	99.8	12/20/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains highly weathered gasoline.

CERTIFICATE OF ANALYSIS

CLIENT:	Antea Group	DATE:	12/21/2023
	18378-B Redmond Way	ALS SDG#:	EV23120155
	Redmond, WA 98052-5012	WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Megan Richard		
CLIENT PROJECT:	MP-46		

LABORATORY BLANK RESULTS
MBG-121923S - Batch 205074 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	MG/KG	3.0	12/19/2023	MNC

U - Analyte analyzed for but not detected at level above reporting limit.

MBG-121923S2 - Batch 205077 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	MG/KG	3.0	12/20/2023	MNC

U - Analyte analyzed for but not detected at level above reporting limit.

MB-121923S - Batch 205092 - Soil by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8260	U	UG/KG	5.0	12/19/2023	DLC
Toluene	EPA-8260	U	UG/KG	10	12/19/2023	DLC
Ethylbenzene	EPA-8260	U	UG/KG	10	12/19/2023	DLC
m,p-Xylene	EPA-8260	U	UG/KG	20	12/19/2023	DLC
o-Xylene	EPA-8260	U	UG/KG	10	12/19/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

MB-121923S2 - Batch 205093 - Soil by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8260	U	UG/KG	5.0	12/20/2023	DLC
Toluene	EPA-8260	U	UG/KG	10	12/20/2023	DLC
Ethylbenzene	EPA-8260	U	UG/KG	10	12/20/2023	DLC
m,p-Xylene	EPA-8260	U	UG/KG	20	12/20/2023	DLC
o-Xylene	EPA-8260	U	UG/KG	10	12/20/2023	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT: Antea Group
18378-B Redmond Way
Redmond, WA 98052-5012
DATE: 12/21/2023
ALS SDG#: EV23120155
WDOE ACCREDITATION: C601

CLIENT CONTACT: Megan Richard
CLIENT PROJECT: MP-46

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 205074 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
TPH-Volatile Range - BS	NWTPH-GX	104			66.5	122.7	12/19/2023	MNC
TPH-Volatile Range - BSD	NWTPH-GX	103	1		66.5	122.7	12/19/2023	MNC

ALS Test Batch ID: 205077 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
TPH-Volatile Range - BS	NWTPH-GX	106			66.5	122.7	12/20/2023	MNC
TPH-Volatile Range - BSD	NWTPH-GX	104	2		66.5	122.7	12/20/2023	MNC

ALS Test Batch ID: 205092 - Soil by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Benzene - BS	EPA-8260	96.6			75	138	12/19/2023	DLC
Benzene - BSD	EPA-8260	90.3	7		75	138	12/19/2023	DLC
Toluene - BS	EPA-8260	96.9			71.6	122.1	12/19/2023	DLC
Toluene - BSD	EPA-8260	90.2	7		71.6	122.1	12/19/2023	DLC
Ethylbenzene - BS	EPA-8260	98.9			50	150	12/19/2023	DLC
Ethylbenzene - BSD	EPA-8260	92.0	7		50	150	12/19/2023	DLC
m,p-Xylene - BS	EPA-8260	96.8			50	150	12/19/2023	DLC
m,p-Xylene - BSD	EPA-8260	90.8	6		50	150	12/19/2023	DLC
o-Xylene - BS	EPA-8260	98.7			50	150	12/19/2023	DLC
o-Xylene - BSD	EPA-8260	92.3	7		50	150	12/19/2023	DLC

ALS Test Batch ID: 205093 - Soil by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Benzene - BS	EPA-8260	91.6			75	138	12/20/2023	DLC
Benzene - BSD	EPA-8260	91.6	0		75	138	12/20/2023	DLC
Toluene - BS	EPA-8260	91.3			71.6	122.1	12/20/2023	DLC
Toluene - BSD	EPA-8260	92.3	1		71.6	122.1	12/20/2023	DLC
Ethylbenzene - BS	EPA-8260	92.8			50	150	12/20/2023	DLC
Ethylbenzene - BSD	EPA-8260	92.7	0		50	150	12/20/2023	DLC
m,p-Xylene - BS	EPA-8260	91.1			50	150	12/20/2023	DLC
m,p-Xylene - BSD	EPA-8260	91.0	0		50	150	12/20/2023	DLC
o-Xylene - BS	EPA-8260	93.9			50	150	12/20/2023	DLC
o-Xylene - BSD	EPA-8260	93.3	1		50	150	12/20/2023	DLC

CERTIFICATE OF ANALYSIS

APPROVED BY

Rob Greer
Laboratory Director



ALS Environmental
8620 Holly Drive, Suite 100
Everett, WA 98208
Phone (425) 356-2600
Fax (425) 356-2626
http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only)

EV23120155

Date 12/19/23 Page 1 Of 3

PROJECT ID: <u>MP-46</u>					ANALYSIS REQUESTED															OTHER (Specify)								
REPORT TO COMPANY: <u>Antea Group</u>					NUMBER OF CONTAINERS RECEIVED IN GOOD CONDITION? Herbs Pest Semi-Vol VOA Metals TCLP-Metals Metals Other (Specify) RCRA-8 Pb Pol Pesticides by EPA 8081 PCB by EPA 8082 Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM Semivolatile Organic Compounds by EPA 8270 EDB / EDC by EPA 8260 (soil) EDB / EDC by EPA 8260 SIM (water) Volatile Organic Compounds by EPA 8260 Halogenated Volatiles by EPA 8260 MTBE by EPA 8021 BTEX by EPA 8021 NWTPH-GX NWTPH-DX NWTPH-HCID																							
PROJECT MANAGER: <u>Megan Richard</u>																												
ADDRESS: <u>18378-B Redmond Way</u>																												
<u>Redmond, WA</u>																												
PHONE: <u>206-854-0399</u> P.O. #:																												
E-MAIL: <u>megan.richard@anteagroup.us</u>																												
INVOICE TO COMPANY: <u>Same as above</u>																												
ATTENTION: <u>Digital Solutions.E@vis@anteagroup.us</u>																												
ADDRESS: <u>same as above</u>																												
SAMPLE I.D.	DATE	TIME	TYPE	LAB#	NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA 8021	MTBE by EPA 8021	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM	PCB by EPA 8082	Pesticides by EPA 8081	TAL	RCRA-8	Pb Pol	Metals	Metals Other (Specify)	TCLP-Metals	VOA	Semi-Vol	Pest	Herbs	NUMBER OF CONTAINERS RECEIVED IN GOOD CONDITION?
1. B-1-24-20231219	12/19/23	13:30	S	1			X	X																				4
2. SW-N-1-12-20231219	12/19/23	13:40		2			X	X																				1
3. SW-N-1-24-20231219	12/19/23	15:30		3			X	X																				
4. SW-S-1-12-20231219	12/19/23	14:40		4			X	X																				
5. SW-S-1-24-20231219	12/19/23	11:50		5			X	X																				
6. B-2-24-20231219	12/19/23	15:00		6			X	X																				
7. SW-N-2-12-20231219	12/19/23	13:50		7			X	X																				
8. SW-N-2-24-20231219	12/19/23	14:30		8			X	X																				
9. B-3-24-20231219	12/19/23	14:15		9			X	X																				
10. SW-N-3-12-20231219	12/19/23	14:00	✓	10			X	X																				✓

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

- Relinquished By: Marian Murphy 12/19/23
Received By: ALS 12/19/23 1823
- Relinquished By: _____
Received By: _____

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis

10 5 3 2 1 SAME DAY

Fuels & Hydrocarbon Analysis

5 3 1 SAME DAY

OTHER: 24 HR / ASAP

Specify: _____

*Turnaround request less than standard may incur Rush Charges



ALS Environmental
8620 Holly Drive, Suite 100
Everett, WA 98208
Phone (425) 356-2600
Fax (425) 356-2626
http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only)

612312155

Date _____ Page 2 Of 3

PROJECT ID: <u>MP-46</u>					ANALYSIS REQUESTED															OTHER (Specify)							
REPORT TO COMPANY: <u>Antea Group</u>					NUMBER OF CONTAINERS RECEIVED IN GOOD CONDITION? Herbs Pest Semi-Vol VOA Metals Other (Specify) PCRA-8 Pri Pol Pesticides by EPA 8081 Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM Semi-volatile Organic Compounds by EPA 8270 EDB / EDC by EPA 8260 (soil) EDB / EDC by EPA 8260 SIM (water) Volatile Organic Compounds by EPA 8260 Halogenated Volatiles by EPA 8260 MTBE by EPA 8021 BTEX by EPA 8021 BTEX by EPA 8260																						
PROJECT MANAGER: <u>Megan Richard</u>																											
ADDRESS: <u>18398-B Redmond Way</u>																											
<u>Redmond, WA</u>																											
PHONE: <u>206-854-0399</u> P.O. #:																											
E-MAIL: <u>megan.richard@anteagroup.us</u>																											
INVOICE TO COMPANY: <u>Same as above</u>																											
ATTENTION: <u>Digital Solutions. Eavis@anteagroup.us</u>																											
ADDRESS: <u>same as above</u>																											
SAMPLE I.D.	DATE	TIME	TYPE	LAB#	NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA 8021	MTBE by EPA 8021	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semi-volatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM	PCB by EPA 8082	Pesticides by EPA 8081	PCRA-8	Pri Pol	TAL	Metals Other (Specify)	VOA	Semi-Vol	Pest	Herbs	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
1. SW-N-3-24-20231219	12/19/23	14:10	S	11			X	X																	4		
2. SW-E-1-12-20231219	12/19/23	14:50		12			X	X																			
3. SW-E-1-24-20231219	12/19/23	14:50		13			X	X																			
4. SW-W-1-12-20231219	12/19/23	15:20		14			X	X																			
5. SW-E-2-24-20231219	12/19/23	15:50		15			X	X																			
6. SW-E-3-12-20231219	12/19/23	16:40		16			X	X																			
7. SW-S-2-12-20231219	12/19/23	17:00		17			X	X																			
8. SW-E-2-12-20231219	12/19/23	15:50		18			X	X																			
9. SW-E-3-24-20231219	12/19/23	16:55		19			X	X																			
10. SW-S-2-24-20231219	12/19/23	17:10	✓	20			X	X																	✓		

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Marion Murphy
Received By: ALS 12/19/23 1823
2. Relinquished By: _____
Received By: _____

TURNAROUND REQUESTED in Business Days*
Organic, Metals & Inorganic Analysis

10 5 3 2 1 SAME DAY

Fuels & Hydrocarbon Analysis

5 3 1 SAME DAY

OTHER: Specify: 24 HRS/ASAP

*Turnaround request less than standard may incur Rush Charges



ALS Job# (Laboratory Use Only)

EN23120155

Date 2/2 Page 3 Of 3

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Mariah Murphy
Received By: [Signature] ACS 12/16/23 1823

2. Relinquished By: _____
Received By: _____

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis

OTHER:

10 5 3 2 1 SAM
Standard DAY

Specify: _____

Fuels & Hydrocarbon Analysis

5 3 1 SAM
DAY

**Turnaround request less than standard may incur Rush Charges*

ALS ENVIRONMENTAL

Sample Receiving Checklist

Client: Anteq ALS Job#: 6123120155

Project: MP-46

Login Date: 12/19/23 Login Time: 1823 Login By: CPN

Type of Shipping Container: Cooler ☒ Box ☐ Other ☐

Shipped via: FedEx Ground ☐ UPS ☐ Courier ☐ Hand Delivered ☒ ALS Courier ☐
FedEx Express ☐

	Yes	No	N/A
Were custody seals on outside of shipping container?		☒	
If yes, how many? _____ Where? _____			
Custody seal date: _____ Seal name: _____			
Was Chain of Custody properly filled out (ink, signed, dated, etc.)?	☒		
Did all bottles have labels?	☒		
Did all bottle labels and tags agree with Chain of Custody?	☒		
Were samples received within hold time?	☒		
Did all bottles arrive in good condition (unbroken, etc.)?	☒		
Was sufficient amount of sample sent for the tests indicated?	☒		
Was correct preservation added to samples?	☒		
Subcontract test containers added to Subcontract Bin?			☒
Wetchem test containers marked with required Tests?			☒
Short hold time test containers delivered to analysts?			☒
Were VOA vials checked for absence of air bubbles?			☒
Bubbles present in sample #: _____			

5035A kits received? ☒
Low Kits: 21 # High Kits: _____

5035A kits returned?
Low Kits: _____ # High Kits: _____

Temperature of cooler upon receipt: 2.7C On ice? ☒

Explain any discrepancies:

Was client contacted? _____ Who was called? _____ By whom? _____ Date: _____

Outcome of call:

APPENDIX B

**CTEH March 2024 Relevant Hand
Auger Soil Data From the Block
Valve Area**

Laboratory Results | Post Excavation Soil
PROJ-032692 | Olympic Pipeline Gasoline Spill - Conway, WA

Analytical Method	Analyte	Screening Value	S034	S035	S036	S037	S038
8260D	Benzene	30 µg/kg ¹	< 1.36 µg/kg				
	Ethylbenzene	6000 µg/kg ¹	< 2.14 µg/kg				
	Toluene	7000 µg/kg ¹	< 3.76 µg/kg				
	Xylenes, Total	9000 µg/kg ¹	< 2.56 µg/kg				
NWTPHDX-SGT	Diesel Range Organics (DRO)	2000000 µg/kg ¹	< 2.380 µg/kg				
	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	< 5.960 µg/kg				
NWTPHGX	Gasoline Range Organics-NWTPH	30000 µg/kg ¹	< 2.620 µg/kg				

S034	S035	S036	S037	S038
Q16-5	P16-5	O15-5	P15-5	Q15-3
3/3/2024	3/3/2024	3/3/2024	3/3/2024	3/3/2024
MTWA0303S034	MTWA0303C035	MTWA0303S035	MTWA0303S037	MTWA0303S038
< 1.17 µg/kg	< 1.79 µg/kg	< 1.07 µg/kg	< 0.974 µg/kg	< 0.97 µg/kg
< 1.84 µg/kg	< 2.83 µg/kg	< 1.69 µg/kg	< 1.54 µg/kg	< 1.53 µg/kg
< 3.25 µg/kg	< 4.99 µg/kg	< 2.98 µg/kg	7.2 µg/kg (J)	3.11 µg/kg (J)
< 2.2 µg/kg	< 3.38 µg/kg	< 2.02 µg/kg	< 9.24 µg/kg	< 1.83 µg/kg
< 2.320 µg/kg	< 2.250 µg/kg	< 2.160 µg/kg	< 2.050 µg/kg	18,000 µg/kg
< 5.810 µg/kg	< 5.630 µg/kg	5,870 µg/kg (J)	< 5,140 µg/kg	34,300 µg/kg
< 2,120 µg/kg	< 3,260 µg/kg	< 1,940 µg/kg	< 1,770 µg/kg	< 1,760 µg/kg

¹ Washington State Model Toxic Control Act (MTCAL) - Method A Soil Cleanup Levels for Unrestricted Land Use
* Cleanup Level for Heavy Oils
Laboratory non-detections are reported as less than ("<") the laboratory method detection limit (MDL).
Laboratory result qualifiers are reported to the right of corresponding detections (in parentheses). Definitions of reported qualifiers are below:
J: The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

Detection > Screening Value

Detection

Non-detection

Laboratory Results | Post Excavation Soil
PROJ-032692 | Olympic Pipeline Gasoline Spill - Conway, WA

Analytical Method	Analyte	Screening Value	S039	S040	S041	S042	S043	S044
8260D	Benzene	30 µg/kg ¹	< 1.11 µg/kg	< 0.77 µg/kg	1.45 µg/kg (J)	2,600 µg/kg	441 µg/kg	47.7 µg/kg
	Ethylbenzene	6000 µg/kg ¹	< 1.74 µg/kg	< 1.21 µg/kg	< 2.16 µg/kg	156,000 µg/kg	10,600 µg/kg	298 µg/kg
	Toluene	7000 µg/kg ¹	< 3.08 µg/kg	3.55 µg/kg (J)	20.7 µg/kg	6,060 µg/kg	6,640 µg/kg	387 µg/kg
	Xylenes, Total	9000 µg/kg ¹	< 2.08 µg/kg	< 5.32 µg/kg	29.2 µg/kg	877,000 µg/kg	6,740 µg/kg	135 µg/kg
NWTPHDX-SGT	Diesel Range Organics (DRO)	2000000 µg/kg ¹	< 2,070 µg/kg	< 1,730 µg/kg	< 2,570 µg/kg	3,050,000 µg/kg	282,000 µg/kg	54,200 µg/kg
	Residual Range Organics (RRO)	2000000 µg/kg ^{1*}	< 5,190 µg/kg	< 4,320 µg/kg	< 6,450 µg/kg	41,600 µg/kg (J)	< 3,500 µg/kg	< 4,160 µg/kg
NWTPHGX	Gasoline Range Organics-NWTPH	30000 µg/kg ¹	< 2,010 µg/kg	< 1,400 µg/kg	2,680 µg/kg (J)	7,400,000 µg/kg	768,000 µg/kg	61,100 µg/kg

¹ Washington State Model Toxic Control Act (MTCAL) - Method A Soil Cleanup Levels for Unrestricted Land Use

* Cleanup Level for Heavy Oils

Laboratory non-detections are reported as less than ("<") the laboratory method detection limit (MDL).

Laboratory result qualifiers are reported to the right of corresponding detections (in parentheses). Definitions of reported qualifiers are below:

J: The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

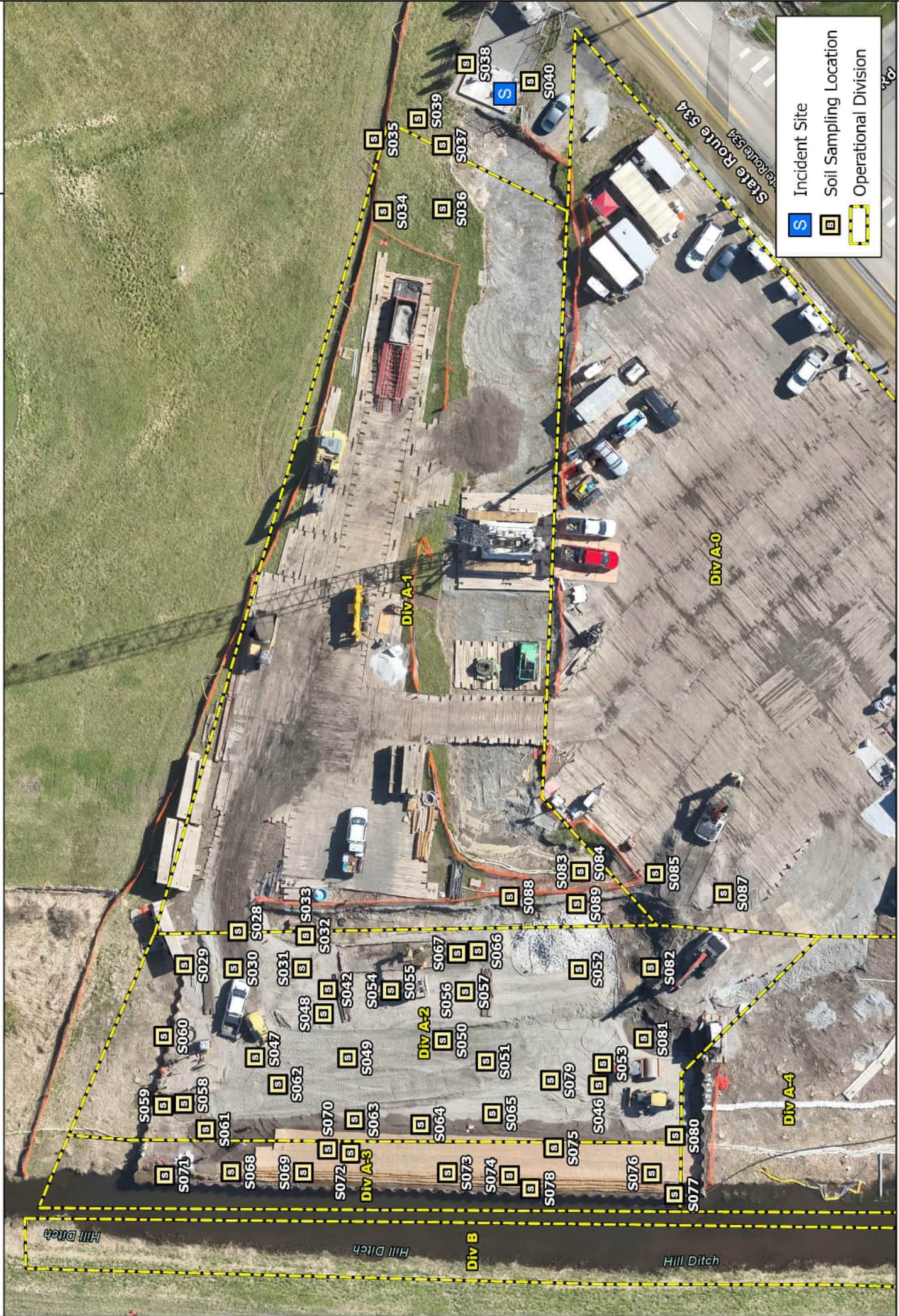
Detection > Screening Value

Detection

Non-detection

Project: PROJ-032692
Client: BP
City: Conway, WA
County: Skagit

CTEH® Soil Sampling Locations | Post Excavation Sampling
Olympic Pipeline Gasoline Spill - Conway, WA





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