



Remediation Management Services Company

4 Centerpointe Drive, Suite 200
La Palma, CA 90623
Room LPR 4-222
Office: (360) 594-7978
wade.melton@bp.com

May 16, 2024

Washington Department of Ecology
Northwest Regional Office
Attn: Mr. Michael Warfel
15700 Dayton Avenue North
Shoreline, WA 98133

Dear Mr. Warfel:

Please find the enclosed Subsurface Investigation Report, that documents the results at Former ARCO Facility No. 11060 located at 4580 Fauntleroy Way SW, Seattle, Washington.

Sincerely yours,

A handwritten signature in black ink, appearing to read 'Wade Melton', written over a light blue rectangular background.

Wade Melton
Operations Project Manager
Remediation Management Services Company
An affiliate of Atlantic Richfield Company

cc: File, Antea Group



Subsurface Investigation Report

Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, Washington

Antea[®]Group

Understanding today.
Improving tomorrow.

PREPARED FOR

Remediation Management Services Company
An affiliate of Atlantic Richfield Company
4 Centerpointe Drive, Suite 200
Room LPR-4-222
La Palma, CA 90623

PREPARED BY

Antea Group – Seattle, WA
May 16, 2024
Project WA – 11060 Seattle
FSID 99437681

us.anteagroup.com

Contents

1.0	Introduction	1
2.0	Background	1
2.1	Site Description	1
2.2	Site Geology and Hydrogeology	1
2.3	Previous Investigations And Remediation	2
2.3.1	1992 – Subsurface Investigation	2
2.3.2	May 1993 – Subsurface Investigation	2
2.3.3	March 1994 – Subsurface Investigation	2
2.3.4	Fourth Quarter 1994 – Remediation Activity	2
2.3.5	March 1995 – Sve Well Installation	2
2.3.6	June 1996 – Well Installation	3
2.3.7	June 1997 – Subsurface Investigation	3
2.3.8	1998 – Well Installation And Abandonment	3
2.3.9	October 2002 – Subsurface Investigation Report	3
2.3.10	July 2003 – Indoor Air Survey	3
2.3.11	2007 – Subsurface Investigation	3
2.3.12	August 2010 – Subsurface Investigation	4
2.3.13	January 2012 – Subsurface Investigation	4
2.3.14	August 2012 – Remediation – Product Recovery	4
2.3.15	June 2014 – Subsurface Investigation and Remediation Well Installation	4
2.3.16	2015 – Remediation System Installation	4
2.3.17	October 2018 – Subsurface Investigation	4
2.3.18	2021 – Remediation System Air Sparge Pilot Tests	5
2.3.19	December 2022 – Petrofix Injection	5
2.4	Current Site Status	5
3.0	Project Activities	5
3.1	Drilling and Soil Sampling	5
3.2	Soil Vapor Probe Completion	6
3.3	Monitoring Well Completion	6
3.4	Well Development And Surveying	6
3.5	Groundwater Sampling	7
3.6	Containment of Drill Cuttings And Decontamination Water	7
4.0	Project Results	7

4.1	Quantitative Soil Analysis.....	7
4.2	Quantitative Groundwater Analysis.....	8
5.0	Summary	8
6.0	Conclusion and Recommendations.....	8
7.0	Remarks	11
8.0	Contact Information.....	12
9.0	References	13

Tables

Table 1 - Groundwater Gauging Data
 Table 2 - Groundwater Analytical Data
 Table 3 - Soil Analytical Data

Figures

Figure 1 - Site Location Map
 Figure 2 - Site Aerial Map
 Figure 3 - Soil Analytical Map
 Figure 4 - Groundwater Elevation Contour Map – February 6, 2024
 Figure 5 - Groundwater Analytical Data Map – February 6, 2024

Appendices

Appendix A – Boring Logs
 Appendix B - Summary of Field Procedures and Quality Assurance Plan
 Appendix C - Waste Disposal Forms
 Appendix D - Soil Laboratory Analytical Report and Chain-of-Custody
 Appendix E - Groundwater Laboratory Analytical Report and Chain-of-Custody

Subsurface Investigation Report

Former ARCO Facility No. 11060

4580 Fauntleroy Way SW, Seattle, Washington

1.0 INTRODUCTION

On behalf of Remediation Management Services Company (RMSC, an affiliate of Atlantic Richfield Company), Antea®Group (Antea Group) has prepared this Subsurface Investigation Report at Former ARCO Facility No. 11060 located at 4580 Fauntleroy Way SW, Seattle, Washington (hereinafter referred to as the “Site”). Please refer to **Figure 1** and **Figure 2** for site location information. The objective of the Subsurface Assessment is to delineate the extent of the Washington State Department of Ecology’s (Ecology) Model Toxics Control Act (MTCA) Site boundary, evaluate effectiveness of the Soil Vapor Extraction (SVE) system in reducing historical soil impacts, and assess the soil vapor intrusion pathways onsite.

2.0 BACKGROUND

2.1 SITE DESCRIPTION

The Site is an active Shell branded retail gasoline station with a convenience store located on the east-northeast corner of the intersection of Fauntleroy Way SW and SW Alaska Street in Seattle, Washington. The Site extends east to the CHI Franciscan Health Center. The Site vicinity is a mix of commercial and residential land uses. The closest surface water body is Longfellow Creek located approximately ½ mile east of the Site. According to Google Earth, the Site is approximately 260 feet above mean sea level.

The Shell property is triangular with the station building on the eastern portion of the property. Other property features include a canopy with one dispenser island on the southern portion, a canopy with two dispenser islands on the western portion of the property, and the Underground Storage Tank (UST) basin in the southeastern portion of the property. The property surface consists of asphalt pavement and concrete except for planter features along the perimeter of the property. Site features are presented in **Figure 2**.

2.2 SITE GEOLOGY AND HYDROGEOLOGY

The area is in the Puget Sound Lowland geomorphic province, which consists mainly of glacially deposited sediments. The Puget Sound Lowland is a basin lying between the Cascade Mountains to the east and the Olympic Mountains (coastal range) to the west. At least five major advances of continental glacial ice have been identified as having occurred in the Puget Sound Lowlands. Geologic units resulting from these glacial events include complex sequences of lacustrine deposits, advance outwash, glaciomarine drift, till, and recessional outwash. More recent erosional processes have deposited alluvial sand and gravel, primarily along river valleys.

The Site vicinity is underlain by Alderwood Soils, which is a Quaternary stratified sequence consisting of sandy loam with varying amounts of gravel. In addition, Alderwood soils are considered hydrologically as Class C, which indicates slow infiltration rates with layers impeding downward movement of water, or soils with moderately fine or fine textures. Soils observed at the Site during previous investigations include dense to very dense clays, silty sand, sand, gravelly sand, and sandy gravel. Groundwater levels in the vicinity have dropped in recent years, likely attributable to dewatering activities related to redevelopment. As a result, many wells are dry during the summer season.

2.3 PREVIOUS INVESTIGATIONS AND REMEDIATION

A summary of the previous assessments is provided in Section 2.3.1 through 2.3.19. Site groundwater gauging and analytical data are presented on **Table 1** and **Table 2**, respectively. Site soil analytical data is presented on **Table 3**.

2.3.1 1992 – SUBSURFACE INVESTIGATION

On March 23, 1992, a soil and groundwater investigation was conducted to determine the extent of hydrocarbons in soil and groundwater. Three soil borings were advanced, but due to sloughing pea gravel, only soil boring/monitoring well MW-3 could be installed. Laboratory analytical results from soil samples collected at 13 and 18.5 feet below ground surface (bgs) exceeded the Total Petroleum Hydrocarbon as Gasoline (TPH-G) Model Toxics Control Act (MTCA) Method A Cleanup Level at 43 milligrams per kilogram (mg/Kg) and 140 mg/Kg, respectively. Benzene soil concentration exceeded the MTCA Method A Cleanup Level at a concentration of 0.94 mg/Kg. On April 8, 1992, a groundwater sample was collected from MW-3. Laboratory analytical results of the groundwater sample exceeded the MTCA Method A Cleanup Level for benzene at 11 micrograms per liter (ug/L) and Total Petroleum Hydrocarbon as Diesel (TPH-D,) at 670 ug/L (Geraghty & Miller 1992).

2.3.2 MAY 1993 – SUBSURFACE INVESTIGATION

In May 1993, a soil and groundwater investigation was conducted to provide additional information of residual petroleum hydrocarbons in soil and groundwater. Four soil borings were advanced and completed as monitoring wells MW-1, MW-2, MW-4, and MW-5. Samples were submitted for laboratory analysis of TPH-G, benzene, toluene, ethylbenzene, and xylenes (BTEX). Laboratory analytical results from soil samples collected from MW-2 and MW-4 exceeded the TPH-G MTCA Method A Cleanup Level at 18 and 23 feet bgs, respectively. Concentrations at MW-2 were 190 mg/kg and concentrations at MW-4 were 1,200 mg/kg. Benzene and xylene soil concentration exceeded the MTCA Method A Cleanup Level at a concentration of 6.6 mg/Kg and 71 mg/Kg, respectively. In May and June 1993, groundwater samples were collected from MW-1 through MW-5. Laboratory analytical results of the groundwater samples exceeded the MTCA Method A Cleanup Level for TPH G and benzene for all samples, toluene and ethylbenzene for MW-2 and MW-4, and xylene for MW-2, MW 4, and MW-5 (RZA AGRA, Inc. 1993).

2.3.3 MARCH 1994 – SUBSURFACE INVESTIGATION

In March 1994, Stage II vapor recovery equipment was installed, and soil samples were collected at depths of 1 to 2 feet bgs around the service islands, product lines, and tank pit. Soil sample analytical results indicated TPH-G concentrations ranging from 20 to 6,400 mg/Kg, TPH-D concentrations ranging from 90 to 25,000 mg/Kg, and TPH-O concentrations ranging from 100 to 590 mg/Kg. The highest hydrocarbon concentrations were detected in samples collected from backfill material within 2 feet below grade at the tank pit (Alisto Engineering Group, 1995).

2.3.4 FOURTH QUARTER 1994 – REMEDIATION ACTIVITY

During the fourth quarter of 1994, a passive product recovery unit (belt skimmer) was installed in MW-4. Approximately 3,800 gallons of total fluids have been recovered from MW-4 (Alisto Engineering Group, 1995).

2.3.5 MARCH 1995 – SVE WELL INSTALLATION

In March through May 1995, two soil borings, VW-1 and SP-1, were advanced to 28 and 38 feet bgs. In April 1998, the VW-1 name was changed to VE-1 as referenced from the Arcadis 11/19/2010 Soil Vapor Extraction Pilot Test Workplan. Soil samples from VE-1 taken at 10 and 25 feet bgs detected concentrations of TPH-G at 3,500 and 1,300 mg/Kg. No soil samples were collected from SP-1. Light non-aqueous phase liquid (LNAPL) was

observed in VE-1 at a thickness of 0.08 feet. Groundwater samples collected from SP-1 detected TPH-G and benzene at concentrations of 310 and 52 ug/L.

In May 1995, an air sparge (AS) and vapor extraction test was conducted to determine sparge and vacuum remediation feasibility at the Site. An effective radius of influence of approximately 30 feet was determined achievable with an air flow rate of 10 cubic feet per meter (cfm) at 25 pounds per square inch (psi). The air flow required to maintain aerobic conditions was determined to be 0.816 standard cubic feet per meter (scfm) and recommended for 2 scfm. No vacuum pressure drawdowns were observed in any test well, however air samples collected during testing detected TPH-G concentrations of up to 1,500 parts per million by volume (ppmv) and benzene concentrations of up to 14 ppmv (Alisto Engineering Group, 1995).

2.3.6 JUNE 1996 – WELL INSTALLATION

In June 1996, six combined air sparging and vapor extraction wells (CW-1 through CW-6) and one air sparging well (SP-2) were installed for a proposed remediation system. No samples were collected for laboratory analysis (Alisto, 1996).

2.3.7 JUNE 1997 – SUBSURFACE INVESTIGATION

In June 1997, monitoring well MW-6 was installed. Soil and groundwater samples collected from MW-6 were below MTCA Method A Cleanup levels for TPH-G (Alisto Engineering Group, 1997).

2.3.8 1998 – WELL INSTALLATION AND ABANDONMENT

Groundwater samples were collected from monitoring wells MW-7 and MW-8 between April 1998 and June 1999. Details regarding the installation and abandonment of these wells are not known at this time (Delta Environmental Consultants, Inc., 2003).

2.3.9 OCTOBER 2002 – SUBSURFACE INVESTIGATION REPORT

In October 2002, three soil samples were collected (B-1 through B-3). Soil samples B-1 and B-2 exceeded MTCA Method A Cleanup Level for TPH-G. Soil sample B-3 was below MTCA Method A Cleanup Level for all contaminants of concern. (Arcadis, 2011)

2.3.10 JULY 2003 – INDOOR AIR SURVEY

In July 2003, indoor station air was tested for gasoline range hydrocarbons. Air was monitored using photoionization detector (PID) monitoring around the station area and passive organic vapor monitoring devices placed in select indoor and outdoor locations. In September 2003, additional two passive organic vapor monitoring devices were placed in the station building. PID monitoring and laboratory analytical from July and September concluded that air quality was within acceptable ranges during the times of investigation (Delta Environmental Consultants, Inc., 2003).

2.3.11 2007 – SUBSURFACE INVESTIGATION

In 2007, monitoring well GMW-1 was installed as part of Phase II activities on the CHI Franciscan property. Four soil samples and one groundwater sample were submitted to the laboratory. All soil samples were below MTCA Method A Cleanup Levels for TPH-G and BTEX. The groundwater sample was below MTCA Method A Cleanup Levels for all analytes tested (TPH-G, TPH-D, and Lead) (Arcadis, 2011).

2.3.12 AUGUST 2010 – SUBSURFACE INVESTIGATION

In August 2010, one monitoring well (MW-9) was installed off-site and downgradient of the Site. Three soil samples were collected during installation and submitted for laboratory analysis. All soil samples did not contain concentrations of petroleum hydrocarbons greater than laboratory detection limits. The soil samples contained detectable concentrations of lead, none of which exceeded MTCA Method A Cleanup Levels (Arcadis, 2010).

2.3.13 JANUARY 2012 – SUBSURFACE INVESTIGATION

In January 2012, three extraction wells (EW-1 through EW-3), one monitoring well (MW-10), and four soil borings (SB-1 through SB-4) were advanced at the Site. Two to four soil samples were submitted for laboratory analysis from each boring. Soil samples exceeded MTCA Method A Cleanup Levels for TPH-G from borings SB-1 through SB-4 and EW-1 through EW-3, TPH-D and TPH-O from boring SB-3, benzene from boring SB-3, SB-4, EW-1 through EW-3, toluene from boring EW-1, ethylbenzene from SB-3 and EW-1, total xylenes from SB-3 and EW-1, and benzo[a]pyrene from SB-3 (Arcadis, 2013).

2.3.14 AUGUST 2012 – REMEDIATION – PRODUCT RECOVERY

Product recovery activities were conducted at wells MW-4 and VE-1. In 1994, a belt skimmer was installed in MW-4 as an interim remedial measure for recovery LNAPL. In August 2013, the belt skimmer was removed and decommissioned from MW-4 due to the water table dropping below the level of the belt skimmer. (Arcadis, 2011).

2.3.15 JUNE 2014 – SUBSURFACE INVESTIGATION AND REMEDIATION WELL INSTALLATION

In 2014, six AS wells (AS-1 through AS-6) and five SVE wells (VE-1 through VE-5) were installed for the AS/SVE remediation system. Combined AS/SVE wells CW-2 through CW-4 were incorporated into the remediation system. Soil samples collected during well installation activity contained concentrations of petroleum hydrocarbons exceeding MTCA Method A Cleanup Levels for TPH-G from borings AS-3, AS-6, and VE-4, benzene from borings AS-3, AS-5, and AS-6, toluene from boring AS-3, ethylbenzene from boring AS-3, total xylenes from boring AS-3, and cPAHs from borings AS-3 and VE-4 (Arcadis, 2015).

2.3.16 2015 – REMEDIATION SYSTEM INSTALLATION

Between October and November 2015, AS/SVE remediation system trenching, and underground conveyance piping were installed to the system equipment compound. In January 2016, AS/SVE system equipment was placed, a well manifold was constructed, and the remediation wells were connected to the system compound. The AS system equipment consisted of a 15 horsepower (HP) air compressor capable of 90 scfm at 28 psi, nine AS wells, remedial piping, and a 5-well manifold connected with solenoid valves for pulsing operations. The SVE system equipment consisted of a 5 HP blower capable of 120 scfm at 80 inches of water (in WC) vacuum, eight SVE wells, a 5-well manifold with an additional two individual SVE lines, remedial piping, knock-out tank, vapor control valve (VCV), FALCO electric catalytic oxidizer, and round pipe effluent stack. The system was equipped with a programmable logic controller for automated operation. Safety devices were equipped throughout the system. Notice of Construction No 10813 and Registration No. 29664 was issued by Puget Sound Clean Air Agency (PSCAA) (Arcadis, 2016).

2.3.17 OCTOBER 2018 – SUBSURFACE INVESTIGATION

In October 2018, two soil borings were advanced and completed as monitoring wells MW-11 and MW-12. Soil samples collected during well installation activities contained concentrations of TPH-G exceeding MTCA Method A Cleanup Levels From Boring MW-12 (Arcadis, 2018).

2.3.18 2021 – REMEDIATION SYSTEM AIR SPARGE PILOT TESTS

In July 2021, an AS pilot test was conducted to determine if low sparge pressure operations were feasible at the Site. Positive pressures were observed in test wells during lowest achievable flow rate in AS wells and higher than typical vacuum operation in SVE wells. The catalytic oxidizer unit did not have consistent operation due to electrical component issues causing inconsistent SVE and system operation during the test. A second pilot test with continuous SVE operation was determined necessary.

In September and October 2021, a second AS test was performed after fixing the catalytic oxidizer component. To test subsurface pressure changes and potential for pulsed air sparge operations, AS was introduced at the lowest achievable flow rate and later shut down. A second round of AS startup and shutdown was performed. SVE operation was continuous throughout the test to apply a constant vacuum to the subsurface and try to overcome positive AS pressures. During the test, positive pressures were observed in the test wells while AS and SVE were operational. When AS was shutdown, vacuum conditions were observed in the test wells. Combined SVE well influent PID readings increased from 24 ppmv to 29.5 ppm when AS was operational. Individual SVE wells VE-1 and VE-2 increased from 19.4 ppmv to 453.4 ppmv and 74.7 ppmv to 417.3 ppmv, respectively, when AS was operational (Antea, 2021).

2.3.19 DECEMBER 2022 – PETROFIX INJECTION

In December 2022, a PetroFix amendment injection pilot study was conducted. Baseline groundwater monitoring was conducted prior to the injection. Approximately 1,600 pounds of PetroFix amendment and 819 gallons of water were injected in EW-1 through EW-3 and MW-4. Continuous monitoring of observations wells for depth to groundwater, pressure, and PetroFix surfacing was conducted throughout the test. Following the injection test, performance groundwater sampling occurred (Antea, 2022).

2.4 CURRENT SITE STATUS

The Site is listed on Ecology's Leaking Underground Storage Tanks (LUST) list with facility site ID 99437681 and Cleanup Site ID 11357. There are currently nine monitoring wells on the Shell property, four monitoring wells on the CHI Franciscan property, and two wells in the Right of Way (ROW) south of the Site. Groundwater gauging data, groundwater analytical data and soil analytical data are presented on **Table 1**, **Table 2**, and **Table 3**, respectively. A site location map is provided on **Figure 1**. A site aerial map is provided on **Figure 2**. A groundwater elevation contour map and groundwater analytical data map for February 6, 2024 are provided on **Figure 4** and **Figure 5**, respectively.

3.0 PROJECT ACTIVITIES

3.1 DRILLING AND SOIL SAMPLING

The subsurface investigation was conducted in two phases due to right-of-way permitting and subcontractor scheduling constraints. The first phase was conducted September 26 through 28 and included the advancement of SB-7, SB-8, SVP-1, and SVP-2. The second phase was conducted December 18 through 22 and included the advancement of MW-13 through MW-16 and SB-9.

Soil borings SB-7 through SB-9 were proposed to assess remediation system performance on historically documented soil impacts. SB-7 was advanced to assess current conditions in the vicinity of SB-2 and AS-1. SB-8 was advanced to assess current conditions in the vicinity of EW-1, B-1, and VE-1. SB-9 was advanced to assess current conditions in the vicinity of SB-3 and VE-4. SVP-1 and SVP-2 were installed to assess the potential for soil

vapor migration beneath the station building. Monitoring well MW-13 was proposed to delineate cross-gradient groundwater concentrations from MW-6. Monitoring well MW-14 was proposed to delineate soil and groundwater conditions upgradient of MW-3. Monitoring well MW-15 was proposed to delineate soil upgradient from AS-6 and EW-3 and groundwater upgradient from MW-4. Monitoring well MW-16 was proposed to delineate groundwater cross gradient from MW-1.

All borings were precleared to a depth of 6.5 feet bgs using a vacuum truck and air knife. Borings that were less than 6.5 feet bgs were cleared only to the necessary depth of investigation. Air knife and vacuum truck operations ceased 18 inches above target sample depths at which time a decontaminated hand auger was used to collect an undisturbed soil sample. Borings greater than 6.5 feet bgs were advanced with drilling operations. SB-7 and SB-8 were each drilled to a terminal depth of 35 feet bgs using a sonic drilling rig. SB-9, MW-13, MW 14, MW 15, and MW-16 were drilled to terminal depths of 25, 30, 30, 35, 35 feet bgs, respectively, using a hollow stem auger drilling rig. SVP-1 and SVP-2 were terminated at depths of 6 feet bgs and 5.75 feet bgs, respectively, using a hand auger.

Antea Group personnel observed and logged each boring using the Unified Soil Classification System (USCS) and discrete soil samples were collected for analytical testing. A total of 34 soil samples were submitted to Eurofins in Tacoma, Washington for quantitative analysis following chain-of-custody documentation. Following sample collection, soils were field screened for the presence of volatile organic compounds with a photoionization detector (PID).

A Site Aerial Map including the location of soil borings SB-7 through SB-9, soil vapor probes SVP-1 and SVP-2, and monitoring wells MW-13 through MW-16 is presented on **Figure 2**. The boring logs describing lithology, sample recovery, PID headspace values, and applicable well completion details are presented in **Appendix A**. The field procedures and quality assurance plan used during the investigation are provided in **Appendix B**.

3.2 SOIL VAPOR PROBE COMPLETION

SVP-1 and SVP-2 were constructed with a 0.25-inch Teflon tubing with a 0.0057-inch stainless steel mesh screen. The SVP-1 annular spaces were filled with sand approximately 0.5 feet below and 0.25 feet above the screen, followed by a dry bentonite then a pre-hydrated bentonite seal to 1.5 feet bgs. Each soil vapor probe was completed to the ground surface with concrete from the top of the bentonite seal and a flush-mounted well. Soil vapor probe construction details are provided in **Appendix A**.

3.3 MONITORING WELL COMPLETION

Monitoring wells MW-13 through MW-16 were constructed of 2-inch diameter schedule 40 polyvinyl chloride (PVC) with a 0.010-inch slotted screen. The screened intervals of wells MW-13 and MW-14 were set from 15 to 30 feet bgs. The screened interval of well MW 15 was set from 17 to 35 feet bgs. The screened interval of well MW-16 was set from 18 to 35 feet bgs. The annular spaces of MW-13, MW-14 and MW-16 were filled with sand to approximately 2 feet above the screen, followed by a hydrated bentonite seal 2 feet bgs. The annular space of MW-15 was filled with sand to approximately 3 feet above the screen, followed by a hydrated bentonite seal to 2 feet bgs. Each well was completed to ground surface with concrete from the top of the bentonite seal and a flush-mounted well.

3.4 WELL DEVELOPMENT AND SURVEYING

Well development of MW-13 through MW-16 was conducted on January 30, 2024. Well development was completed to remove fluids and fine-grained sediments from the filter pack and improve well yield following

construction activities. Development was completed by using a submersible pump to remove water from the well. The well was surged periodically throughout the development process to facilitate the flushing of the filter pack. The well was pumped until a minimum of ten casing volumes was removed. On January 30, 2024, existing and new monitoring wells were professionally surveyed for location and top of casing elevation by Terrane of Bellevue, Washinton (Terrane).

3.5 GROUNDWATER SAMPLING

On February 6, 2024, Antea Group personnel conducted first quarter sampling activities for monitoring wells MW-1, MW-4, and MW-12 through MW-16. During the sampling event, wells were gauged for depth to groundwater measurements and low-flow sampling was performed for chemical analyses. Monitoring well MW-4 has a passive diffusion bag (PDB) installed in the water column due to high turbidity from the December 2022 PetroFix™ amendment injection that was sampled along with regular low flow sampling from MW-4. Samples were submitted to Eurofins for quantitative chemical analysis following standard chain-of-custody procedures. Details on groundwater sampling activities for 2023 can be found in the Semi-Annual Groundwater Monitoring Report for the Second Half of 2023 (Antea, 2024).

3.6 CONTAINMENT OF DRILL CUTTINGS AND DECONTAMINATION WATER

Soil cuttings, decontamination water, and development purge water generated from this investigation were properly labeled, sealed, and temporarily stored in 55-gallon drums onsite. Antea Group coordinated the removal of the investigation-derived waste (IDW) with Advanced Chemical Transport Inc. (ACT) of Tacoma, WA. Four separate waste removal events were conducted. One removal for the first drilling event in September 2023 and three removals for the second drilling event in December 2023. All soil cuttings, decontamination water, and purge water drums were removed from the site. The drums were transported by ACT to Chemical Waste Management of the Northwest in Arlington, OR for disposal. The IDW manifest is included in **Appendix C**.

4.0 PROJECT RESULTS

4.1 QUANTITATIVE SOIL ANALYSIS

Soil samples were analyzed for the presence of the following constituents:

- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 8260D
- Methyl tert-Butyl Ether (MTBE) by EPA Method 8260D
- TPH-G by Northwest Method NWTPH-Gx
- TPH-D and TPH-O by Northwest Method NWTPH-Dx
- Naphthalene by EPA Test Method 8270E SIM
- Total Lead by EPA Test Method 6020B

Quantitative laboratory analysis from the September 2023 Subsurface Investigation (SSI) event indicated that concentrations of TPH-G were detected above MTCA Method A Cleanup Levels in soil samples SB-7-20, SB-8-15, SB-8-20, SB-8-30 and SB-8-35. Analysis also indicated that concentrations of benzene were detected above MTCA Method A Cleanup Levels in soil samples SB-8-10, SB-8-20, SB-8-30, and SB-8-35. All other soil samples collected during the event were below MTCA Method A Cleanup Levels.

Quantitative laboratory analysis from the December 2023 SSI event indicated that concentrations of TPH-G were detected above MTCA Method A Cleanup Levels in soil samples SB-9-20, SB-9-25, MW-14-15 though MW-14-30, MW-15-15, and MW-15-20. All other soil samples collected were below MTCA Method A Cleanup Levels.

Site soil analytical data from both events is summarized in **Table 3** and the soil analytical data is presented in **Figure 3**. A copy of the Soil Laboratory Analytical Reports are included in **Appendix D**.

4.2 QUANTITATIVE GROUNDWATER ANALYSIS

Groundwater samples were analyzed for the presence of the following constituents:

- BTEX by EPA Method 8260D
- TPH-G by Northwest Method NWTPH-Gx
- TPH-D and TPH-O by Northwest Method NWTPH-Dx
- Total Lead by EPA Method 6020B
- Dissolved Lead by EPA Method 6020B
- Total Naphthalene by EPA Method 8270 SIM

Quantitative laboratory analysis from the February 6, 2024 groundwater sampling event indicated that concentrations of petroleum hydrocarbons were detected above MTCA Method A Cleanup Levels in groundwater samples from monitoring wells MW-1, MW-4, MW-12, MW-14 and MW-15. Site groundwater elevation and analytical data is summarized in **Table 1** and **Table 2**, respectively. A Groundwater Elevation Contour Map is presented on **Figure 4**. Groundwater analytical data from the February 6, 2024 sampling event is presented on **Figure 5**. A copy of the Groundwater Laboratory Analytical Report is included in **Appendix E**.

5.0 SUMMARY

In September 2023, Antea Group personnel oversaw the installation of two soil vapor probes, SVP-1 and SVP-2, and the advancement of two soil borings, SB-7 and SB-8. A total of 10 soil samples were submitted to Eurofins for quantitative chemical analysis. Laboratory results indicated that TPH-G exceeding MTCA Method A Cleanup Levels were present in soil samples SB-7-20, SB-8-10, SB-8-15, SB-8-20, SB-8-30, and SB-8-35. Laboratory analysis also indicated that concentrations of benzene were detected above MTCA Method A Cleanup Levels in soil samples SB-8-10, SB-8-20, SB-8-30, and SB-8-35. All other soil samples collected were below MTCA Method A Cleanup Levels.

In December 2023, Antea Group personnel oversaw the installation of four groundwater monitoring wells MW-13 through MW-16 and the advancement of one soil boring SB-9. A total of 24 soil samples were submitted to Eurofins for quantitative chemical analysis. Laboratory results indicated that TPH-G concentrations exceeding MTCA Method A Cleanup Levels were present in soil samples SB-9-20, SB-9-25, MW-14-15 through MW-14-30, MW-15-15, and MW-15-20. All other soil samples collected were below MTCA Method A Cleanup Levels.

On February 6, 2024, groundwater sampling activities were conducted at monitoring wells MW-1, MW-4, and MW-12 through MW-16. Laboratory results indicated that petroleum hydrocarbon concentrations exceeding MTCA Method A Cleanup Levels were present in groundwater samples from monitoring well MW-1, MW-4, MW-12, MW-14, and MW-15. All other groundwater samples collected were below MTCA Method A Cleanup Levels.

6.0 CONCLUSION AND RECOMMENDATIONS

Soil and groundwater sampling activities were performed to assess effectiveness of remediation and to further delineate soil and groundwater impacts. Site remediation has included SVE operation from 2016 to 2023 and a PetroFix™ amendment injection in December 2022. PetroFix™ amendment was injected into wells MW-4, EW-1,

EW-2, and EW-3. Soil samples from SB-7 through SB-9 were collected to assess remediation system performance near historical impacts. Monitoring wells MW-14 and MW-15 were advanced to delineate historical soil and groundwater impacts. Monitoring wells MW-13 and MW-16 were installed to delineate historical groundwater impacts. Groundwater samples were collected from MW-1, MW-4, and MW-12 through MW-16 to assess current site conditions.

Soil boring SB-7 was advanced in the vicinity of soil vapor extraction well VE-3 and historical soil impacts from SB-2 and AS-1. The maximum historical TPH-G concentration was from SB-2 at 1,500 mg/kg, while the SB-7 maximum concentration was 130 mg/kg. Benzene was not detected in any soil samples from SB-2, AS-1, or SB-7.

Soil boring SB-8 was advanced in the vicinity of soil vapor extraction well VE-1 and historical soil impacts from EW-1, B-1, and VE-1. The maximum historical TPH-G concentration was from VE-1 at 3,500 mg/kg, while the maximum SB-8 concentration was 800 mg/kg. The maximum historical benzene concentration was from EW-1 at 2.54 mg/kg, while the maximum SB-8 concentration was 0.36 mg/kg.

Soil boring SB-9 was advanced in the vicinity of soil vapor extraction well VE-4 and historical soil impacts from SB-3 and VE-4. The maximum historical TPH-G concentration was from SB-3 at 4,390 mg/kg, while the maximum SB-9 concentration was 120 mg/kg. The maximum TPH-D was from SB-3 at 2,710 mg/kg, while the maximum SB-9 concentration was <62 mg/kg. The maximum historical benzene concentration was from SB-3 at 0.589 mg/kg, while the maximum SB-9 concentration was 0.017 mg/kg.

As shown in the table below, all maximum concentrations for TPH-G, TPH-D and benzene decreased in the respective assessment areas. Based on recent soil analytical data collected from SB-7 through SB-9, SVE remediation was effective in reducing petroleum hydrocarbon mass in soil.

Confirmation Soil Boring	Boring with Historical MTCA Exceedance in Soil	Nearest SVE Well	Historical TPH-G (mg/kg)	Post Remediation TPH-G (mg/kg)	Historical TPH-D (mg/kg)	Post Remediation TPH-D (mg/kg)	Historical Benzene (mg/kg)	Post Remediation Benzene (mg/kg)
SB-7	SB-2	VE-3	1,500	130	ND	ND	ND	ND
SB-8	VE-1 & EW-1	VE-1	3,500	800	NA	73	2.54	0.36
SB-9	SB-3	VE-4	4,390	120	2,710	ND	0.589	0.017

Notes:

ND= Not detected above laboratory report detection limit

NA= Not analyzed

Monitoring well MW-14 was installed to delineate soil and groundwater upgradient from MW-3. A total of six soil samples were collected from MW-14, four of which had TPH-G concentrations above MTCA Method A Cleanup Levels ranging from 31 to 130 mg/kg. The groundwater sample results from monitoring well MW-14 were above MTCA Method A Cleanup Levels for TPH-G and TPH-D.

Monitoring well MW-15 was installed to delineate soil upgradient from AS-6 and EW-3 and groundwater upgradient from MW-4. A total of seven soil samples were collected from MW-15, two of which had TPH-G concentrations above MTCA Method A Cleanup Levels ranging from 140 to 1,200 mg/kg. The groundwater sample results from monitoring well MW-15 were above MTCA Method A Cleanup Levels for TPH-G and TPH-D.

Monitoring well MW-13 was installed to delineate groundwater cross gradient from MW-6. Monitoring well MW-16 was installed to delineate groundwater cross gradient from MW-1. Groundwater sample results from MW-13 and MW-16 were below MTCA Method A Cleanup Levels for all petroleum hydrocarbons.

In February 2024, groundwater monitoring was conducted on existing wells MW-1, MW-4, and MW-12. The groundwater sample results from monitoring well MW-1 showed concentrations of TPH-D and TPH-O above MTCA Cleanup Levels. The groundwater elevation in MW-1 has been decreasing over time and frequently there is insufficient volume of water within the well to collect a groundwater sample.

Due to high turbidity (activated carbon particles) in monitoring well MW-4 from the December 2022 PetroFix™ amendment injection, a PDB was installed in the water column for groundwater sampling. Groundwater samples from monitoring well MW-4 are collected from the PDB and via low flow sampling. Due to the frequent occurrence of insufficient volume of water within the well, both PDB and low flow samples have only been collected from MW-4 in December 2023 and February 2024. However, groundwater elevations measured in MW-4 during the December 2023 and February 2024 sampling events were higher than any previous monitoring event.

Since the December 2022 PetroFix™ amendment injection, BTEX and TPH-G concentrations from both the PDB and low flow sampling have been below laboratory detection limits indicating the remedial injection was successful in reducing petroleum hydrocarbon mass in groundwater. Groundwater sample results for TPH-D also decreased to concentrations below the MTCA Method A Cleanup Level except for the low flow sample collected in February 2024. The increase in TPH-D concentrations from the low flow sample at MW-4 in February 2024, and lack of detectable concentrations of BTEX and TPH-G, could be attributed to biodegradation of the groundwater plume in which polar metabolites have formed after the PetroFix™ remedial injection event resulting in analyses interference for TPH-D.

The groundwater sample collected from MW-12 was above MTCA Method A Cleanup Levels for TPH-G and TPH-D. Recent groundwater monitoring data indicate concentrations of TPH-G in MW-12 are stable in comparison to historical data. Groundwater elevations measured in MW-12 during the December 2023 and February 2024 sampling events were higher than any previously monitoring event.

Antea Group recommends implementing quarterly groundwater sampling at monitoring wells MW-1, MW-4, MW-12, MW-13, MW-14, MW-15 and MW-16 to assess seasonal fluctuations. Antea Group also recommends investigating the potential for interference from polar metabolites at MW-4 by analyzing for TPH-D both with and without silica gel cleanup.

7.0 REMARKS

The recommendations contained in this report represent Antea USA, Inc.'s professional opinions based upon the currently available information and are arrived at in accordance with currently accepted professional standards. This report is based upon a specific scope of work requested by the client. The contract between Antea USA, Inc. and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Antea USA, Inc.'s client and anyone else specifically identified in writing by Antea USA, Inc. as a user of this report. Antea USA, Inc. will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Antea USA, Inc. makes no express or implied warranty as to the contents of this report.

Should you have any questions, or require additional information concerning this report, please contact the undersigned at +1 800 477 7411.

Prepared by



Dennis Lindelof
Staff Professional

Date: May 16, 2024



Jonah Leurquin
Project Manager

Date: May 16, 2024

Reviewed by:



Megan Richard, LG
Senior Project Manager



Date: May 16, 2024

cc: Mr. Michael Warfel, Washington Department of Ecology, Northwest Regional Office (Hardcopy, Electronic Copy)
Mr. Richard Wright, Jackson Energy (Electronic Copy)
Mr. Ken Lederman, McCullough Hill Leary P.S. (Electronic Copy)
Mr. Nathan Block, BP Legal (Electronic Copy)
Mr. Wade Melton, Remediation Management Services Company (Electronic Copy - RMO Upload)
File, Antea Group

8.0 CONTACT INFORMATION

18378-B Redmond Way
Redmond, WA 98025 USA

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

9.0 REFERENCES

- Geraghty & Miller, Inc. 1989. "Subsurface Investigation at ARCO Service Station #0986". May 8.
- Arcadis U.S. Inc. 2015. "Site Status and Closer Request Report, Former ARCO Facility No. 986".
- Stantec Consulting Services, Inc. 2021. "Groundwater Monitoring Report 1st Quarter 2021". May 6.
- Stantec Consulting Services, Inc. 2022. "Work Plan for Delineation Assessment". February 23.
- Stantec Consulting Services, Inc. 2022. "Groundwater Monitoring Report 1st Quarter 2022". April 15.
- PES Environmental, Inc. 2022. "Limited Phase II Environmental Investigation". April 25.
- Stantec Consulting Services, Inc. 2023. "4Q2022 Soil Vapor Report". February 9.
- PES Environmental, Inc. 2023. "Additional Groundwater and Soil Vapor Sampling Results". March 30.
- Antea Group, 2024. "Semi-Annual Groundwater Monitoring Report – Second Half of 2023". April 2024.

Tables

Table 1 - Soil Analytical Data

Table 2 - Groundwater Elevation Data

Table 3 - Groundwater Analytical Data

Table 1
Groundwater Gauging Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
AS-1	5/7/2015	--	23.30	NP	--	--	NS
AS-1	3/2/2016	--	23.31	NP	--	--	NS
AS-2	3/2/2016	--	21.18	NP	--	--	NS
AS-3	3/2/2016	--	21.63	NP	--	--	NS
AS-4	3/2/2016	--	21.65	NP	--	--	NS
AS-5	3/2/2016	--	--	--	--	--	Dry
AS-6	3/2/2016	--	25.61	NP	--	--	NS
CW-2	3/2/2016	--	19.53	NP	--	--	NS
CW-3	3/2/2016	--	21.57	NP	--	--	NS
CW-4	3/2/2016	--	20.61	NP	--	--	NS
EW-1	5/9/2013	268.20	24.49	24.32	0.17	243.85	--
EW-1	5/7/2015	268.21	25.75	24.73	1.02	243.27	--
EW-1	3/2/2016	268.21	24.81	NP	--	243.40	NS
EW-1	6/6/2016	268.21	25.94	25.28	0.66	242.80	--
EW-1	9/12/2016	268.21	26.89	26.16	0.73	241.91	--
EW-1	12/12/2016	268.21	25.49	24.70	0.79	243.36	--
EW-1	2/22/2017	268.21	24.98	24.20	0.78	243.86	--
EW-1	8/29/2017	268.22	26.28	25.68	0.60	242.42	--
EW-1	10/25/2018	268.22	27.52	NP	--	240.70	NS
EW-1	2/20/2019	268.22	26.85	NP	--	241.37	NS
EW-1	5/14/2019	268.22	27.18	NP	--	241.04	NS
EW-1	8/27/2019	268.22	27.83	NP	--	240.39	NS
EW-1	11/25/2019	268.22	27.84	NP	--	240.38	NS
EW-1	3/25/2020	268.23	26.50	NP	--	241.73	NS
EW-1	8/6/2020	268.23	26.85	NP	--	241.38	NS
EW-1	2/6/2024	268.24	26.09	NP	--	242.15	--
EW-2	5/9/2013	267.93	24.11	NP	--	243.82	NS
EW-2	5/7/2015	267.93	24.78	NP	--	243.15	NS
EW-2	3/2/2016	267.93	24.80	NP	--	243.13	NS
EW-2	6/6/2016	267.93	25.17	NP	--	242.76	NS
EW-2	9/12/2016	267.93	26.22	NP	--	241.71	NS
EW-2	12/12/2016	267.93	24.64	NP	--	243.29	NS
EW-2	2/22/2017	267.93	24.10	NP	--	243.83	NS
EW-2	8/29/2017	267.93	25.56	NP	--	242.37	NS
EW-2	10/25/2018	267.93	27.30	NP	--	240.63	NS
EW-2	2/20/2019	267.93	26.52	NP	--	241.41	NS
EW-2	5/14/2019	267.93	26.96	NP	--	240.97	NS
EW-2	8/27/2019	267.93	27.65	NP	--	240.28	NS
EW-2	11/25/2019	267.93	27.81	NP	--	240.12	NS
EW-2	3/25/2020	267.93	26.21	NP	--	241.72	NS
EW-2	8/6/2020	267.93	26.61	NP	--	241.32	NS
EW-2	2/6/2024	267.93	25.55	NP	--	242.38	--

Table 1
Groundwater Gauging Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
EW-3	5/9/2013	268.50	24.90	24.59	0.31	243.85	--
EW-3	5/7/2015	268.50	25.77	23.23	2.54	244.76	--
EW-3	3/2/2016	268.50	25.44	25.19	0.25	243.26	--
EW-3	9/12/2016	268.50	27.17	25.63	1.54	242.57	--
EW-3	12/12/2016	268.50	25.58	24.75	0.83	243.59	--
EW-3	2/22/2017	268.50	25.06	24.22	0.84	244.12	--
EW-3	8/29/2017	268.50	26.75	25.99	0.76	242.36	--
EW-3	10/25/2018	268.51	27.81	NP	--	240.70	NS
EW-3	2/20/2019	268.51	26.93	NP	--	241.58	NS
EW-3	5/14/2019	268.51	27.45	NP	--	241.06	NS
EW-3	8/27/2019	268.51	27.98	NP	--	240.53	NS
EW-3	11/25/2019	268.51	27.98	NP	--	240.53	NS
EW-3	3/25/2020	268.51	26.69	NP	--	241.82	NS
EW-3	8/6/2020	268.51	27.11	NP	--	241.40	NS
EW-3	2/6/2024	268.51	24.59	NP	--	243.92	--
GMW-1	5/10/2011	--	22.08	NP	--	--	--
GMW-1	11/29/2011	--	23.83	NP	--	--	--
GMW-1	6/1/2012	--	--	--	--	--	NM
GMW-1	11/29/2012	265.63	--	--	--	--	NM
GMW-1	5/9/2013	265.63	22.58	NP	--	243.05	--
GMW-1	11/19/2013	265.63	24.00	NP	--	241.63	--
GMW-1	5/13/2014	265.63	22.83	NP	--	242.80	NS
GMW-1	5/14/2014	265.63	--	--	--	--	--
GMW-1	5/7/2015	265.63	23.48	NP	--	242.15	--
GMW-1	3/2/2016	265.63	22.48	NP	--	243.15	--
GMW-1	6/6/2016	265.63	23.51	NP	--	242.12	--
GMW-1	9/12/2016	265.63	24.89	NP	--	240.74	--
GMW-1	12/12/2016	265.63	22.95	NP	--	242.68	--
GMW-1	2/22/2017	265.63	22.02	NP	--	243.61	--
GMW-1	8/29/2017	265.63	23.86	NP	--	241.77	--
GMW-1	3/13/2018	265.63	23.20	NP	--	242.43	--
GMW-1	10/25/2018	265.63	26.22	26.16	0.06	239.46	--
GMW-1	2/20/2019	265.64	24.34	NP	--	241.30	--
GMW-1	5/13/2019	265.64	25.28	NP	--	240.36	--
GMW-1	8/27/2019	265.65	26.68	NP	--	238.97	--
GMW-1	11/25/2019	265.65	26.95	26.90	0.05	238.74	NS
GMW-1	3/25/2020	265.66	24.91	NP	--	240.75	--
GMW-1	6/2/2020	265.66	25.05	NP	--	240.61	--
GMW-1	8/6/2020	265.67	25.92	NP	--	239.75	--
GMW-1	12/10/2020	265.67	25.50	25.49	0.01	240.18	--
GMW-1	3/8/2021	265.68	23.35	NP	--	242.33	--
GMW-1	6/9/2021	265.69	24.62	NP	--	241.07	--
GMW-1	9/13/2021	265.69	26.70	NP	--	238.99	Dry
GMW-1	12/7/2021	265.70	24.55	NP	--	241.15	--
GMW-1	9/22/2022	265.71	25.45	NP	--	240.26	--
GMW-1	11/29/2022	265.72	26.24	NP	--	239.48	--
GMW-1	2/27/2023	265.72	24.34	NP	--	241.38	--
GMW-1	5/25/2023	265.73	24.30	NP	--	241.43	--
GMW-1	8/9/2023	265.73	24.84	NP	--	240.89	--
GMW-1	12/11/2023	265.74	23.43	NP	--	242.31	--
GMW-1	2/6/2024	265.74	22.16	NP	--	243.58	--

Table 1
Groundwater Gauging Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-1	5/11/1993	99.89	23.02	NP	--	76.87	--
MW-1	3/4/1994	99.89	24.32	NP	--	75.57	--
MW-1	7/6/1994	99.89	24.60	NP	--	75.29	--
MW-1	10/7/1994	99.89	24.97	NP	--	74.92	--
MW-1	12/28/1994	99.89	24.86	NP	--	75.03	--
MW-1	3/13/1995	99.89	24.16	NP	--	75.73	--
MW-1	6/30/1995	99.89	23.98	NP	--	75.91	--
MW-1	9/6/1995	99.89	24.30	NP	--	75.59	--
MW-1	12/8/1995	99.89	24.41	NP	--	75.48	--
MW-1	3/11/1996	99.89	23.11	NP	--	76.78	--
MW-1	6/18/1996	99.89	22.80	NP	--	77.09	--
MW-1	9/9/1996	99.89	23.11	NP	--	76.78	--
MW-1	12/11/1996	99.89	23.07	NP	--	76.82	--
MW-1	3/13/1997	99.89	22.12	NP	--	77.77	--
MW-1	6/5/1997	99.89	21.75	NP	--	78.14	--
MW-1	9/5/1997	99.89	22.03	NP	--	77.86	--
MW-1	4/2/1998	99.89	21.27	NP	--	78.62	--
MW-1	6/8/1998	99.89	21.53	NP	--	78.36	--
MW-1	12/9/1998	99.89	22.22	NP	--	77.67	--
MW-1	6/26/1999	99.89	21.08	NP	--	78.81	--
MW-1	9/28/1999	99.89	21.88	NP	--	78.01	--
MW-1	1/19/2000	99.89	21.46	NP	--	78.43	--
MW-1	3/24/2000	99.89	21.40	NP	--	78.49	--
MW-1	7/2/2000	99.89	21.92	NP	--	77.97	--
MW-1	9/14/2000	99.89	22.54	NP	--	77.35	--
MW-1	12/14/2000	99.89	22.81	NP	--	77.08	--
MW-1	9/22/2001	99.89	23.55	NP	--	76.34	--
MW-1	12/9/2001	99.89	23.63	NP	--	76.26	--
MW-1	3/20/2002	99.89	22.88	NP	--	77.01	--
MW-1	6/11/2002	99.89	23.02	NP	--	76.87	--
MW-1	12/21/2002	99.89	24.54	NP	--	75.35	NS
MW-1	3/19/2003	99.89	24.50	NP	--	75.39	NS
MW-1	6/18/2003	99.89	24.36	NP	--	75.53	NS
MW-1	9/23/2003	99.89	--	--	--	--	NS
MW-1	10/21/2003	99.89	25.04	NP	--	74.85	--
MW-1	6/29/2004	99.89	24.22	NP	--	75.67	NS
MW-1	11/15/2004	99.89	25.11	NP	--	74.78	NS
MW-1	4/14/2005	99.89	25.10	NP	--	74.79	NS
MW-1	12/18/2005	99.89	25.46	NP	--	74.43	--
MW-1	6/11/2006	99.89	24.54	NP	--	75.35	--
MW-1	11/5/2006	99.89	25.59	NP	--	74.30	--
MW-1	9/25/2007	99.89	25.08	NP	--	74.81	--
MW-1	12/31/2007	99.89	25.23	NP	--	74.66	--
MW-1	5/29/2008	99.89	25.01	NP	--	74.88	--
MW-1	10/28/2008	99.89	25.80	NP	--	74.09	--
MW-1	6/22/2009	99.89	26.11	NP	--	73.78	--
MW-1	12/15/2009	99.89	26.31	NP	--	73.58	--
MW-1	5/24/2010	267.43	25.20	NP	--	242.23	--
MW-1	10/12/2010	267.43	25.09	NP	--	242.34	--
MW-1	5/10/2011	267.43	23.60	NP	--	243.83	--
MW-1	11/29/2011	267.43	24.84	NP	--	242.59	--
MW-1	6/1/2012	267.43	23.67	NP	--	243.76	--

Table 1
Groundwater Gauging Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-1	11/29/2012	267.43	24.00	NP	--	243.43	--
MW-1	5/9/2013	267.43	23.79	NP	--	243.64	--
MW-1	11/19/2013	267.43	25.30	NP	--	242.13	--
MW-1	5/13/2014	267.43	24.12	NP	--	243.31	--
MW-1	5/7/2015	267.43	24.26	NP	--	243.17	--
MW-1	3/2/2016	267.43	24.53	NP	--	242.90	--
MW-1	6/6/2016	267.43	24.82	NP	--	242.61	NS
MW-1	9/12/2016	267.43	26.88	NP	--	240.55	IW
MW-1	12/12/2016	267.43	24.76	NP	--	242.67	NS
MW-1	2/22/2017	267.43	24.11	NP	--	243.32	--
MW-1	8/29/2017	267.43	25.20	NP	--	242.23	--
MW-1	3/13/2018	267.43	25.35	NP	--	242.08	--
MW-1	10/25/2018	267.43	26.43	NP	--	241.00	NS
MW-1	2/20/2019	267.43	26.37	NP	--	241.06	NS
MW-1	2/22/2019	267.43	26.33	NP	--	241.10	--
MW-1	5/14/2019	267.43	26.70	NP	--	240.73	--
MW-1	8/27/2019	267.43	27.20	NP	--	240.23	NS
MW-1	11/25/2019	267.43	27.21	NP	--	240.22	NS
MW-1	3/26/2020	267.43	26.02	NP	--	241.41	--
MW-1	6/3/2020	267.43	25.92	NP	--	241.51	--
MW-1	8/6/2020	267.43	26.32	NP	--	241.11	--
MW-1	12/10/2020	267.43	--	--	--	--	Dry
MW-1	3/8/2021	267.43	25.27	NP	--	242.16	--
MW-1	6/9/2021	267.43	25.76	25.76	0.00	241.67	--
MW-1	9/13/2021	267.43	26.77	NP	--	240.66	Dry
MW-1	12/7/2021	--	--	--	--	--	Dry
MW-1	3/8/2022	267.43	25.89	NP	--	241.54	--
MW-1	6/22/2022	267.43	26.07	NP	--	241.36	--
MW-1	9/22/2022	267.43	26.81	NP	--	240.62	--
MW-1	11/29/2022	267.43	27.20	NP	--	240.23	IW
MW-1	12/12/2022	267.43	27.16	NP	--	240.27	--
MW-1	2/27/2023	267.43	--	--	--	--	Dry
MW-1	5/25/2023	267.43	--	--	--	--	Dry
MW-1	8/9/2023	267.43	26.80	NP	--	240.63	IW
MW-1	2/6/2024	267.43	25.55	NP	--	241.88	--
MW-2	5/11/1993	99.05	22.98	NP	--	76.07	--
MW-2	3/4/1994	99.05	24.30	NP	--	74.75	--
MW-2	7/6/1994	99.05	24.54	NP	--	74.51	--
MW-2	10/7/1994	99.05	24.94	NP	--	74.11	--
MW-2	12/28/1994	99.05	24.60	NP	--	74.45	--
MW-2	3/13/1995	99.05	23.84	NP	--	75.21	--
MW-2	6/30/1995	99.05	23.72	NP	--	75.33	--
MW-2	9/6/1995	99.05	23.97	NP	--	75.08	--
MW-2	12/8/1995	99.05	23.97	NP	--	75.08	--
MW-2	3/11/1996	99.05	22.66	NP	--	76.39	--
MW-2	6/18/1996	99.05	22.18	NP	--	76.87	--
MW-2	9/9/1996	99.05	22.72	NP	--	76.33	--
MW-2	12/11/1996	99.05	22.67	NP	--	76.38	--
MW-2	3/13/1997	99.05	21.91	NP	--	77.14	--
MW-2	6/5/1997	99.05	21.06	NP	--	77.99	--
MW-2	9/5/1997	99.05	21.74	NP	--	77.31	--

Table 1
Groundwater Gauging Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-2	4/2/1998	99.05	20.71	NP	--	78.34	--
MW-2	6/8/1998	99.05	21.25	NP	--	77.80	--
MW-2	9/17/1998	99.05	22.10	NP	--	76.95	--
MW-2	12/9/1998	99.05	21.99	NP	--	77.06	--
MW-2	3/17/1999	99.05	19.67	NP	--	79.38	--
MW-2	6/26/1999	99.05	21.26	NP	--	77.79	--
MW-2	9/28/1999	99.05	21.75	NP	--	77.30	--
MW-2	1/19/2000	99.05	21.12	NP	--	77.93	--
MW-2	3/24/2000	99.05	20.74	NP	--	78.31	--
MW-2	7/2/2000	99.05	21.51	NP	--	77.54	--
MW-2	9/14/2000	99.05	22.31	NP	--	76.74	--
MW-2	12/14/2000	99.05	22.97	NP	--	76.08	--
MW-2	9/22/2001	99.05	23.59	NP	--	75.46	--
MW-2	12/9/2001	99.05	23.27	NP	--	75.78	--
MW-2	3/20/2002	99.05	22.41	NP	--	76.64	--
MW-2	6/11/2002	99.05	22.61	NP	--	76.44	--
MW-2	12/21/2002	99.05	24.30	NP	--	74.75	--
MW-2	3/19/2003	99.05	23.90	NP	--	75.15	--
MW-2	6/18/2003	99.05	23.87	NP	--	75.18	--
MW-2	9/23/2003	99.05	24.33	NP	--	74.72	--
MW-2	10/21/2003	99.05	24.38	NP	--	74.67	--
MW-2	6/29/2004	99.05	23.74	NP	--	75.31	--
MW-2	11/15/2004	99.05	24.70	NP	--	74.35	--
MW-2	4/14/2005	99.05	24.69	NP	--	74.36	--
MW-2	12/18/2005	99.05	25.15	NP	--	73.90	--
MW-2	6/11/2006	99.05	24.01	NP	--	75.04	--
MW-2	11/5/2006	99.05	25.40	NP	--	73.65	--
MW-2	9/25/2007	99.05	24.72	NP	--	74.33	--
MW-2	12/31/2007	99.05	24.67	NP	--	74.38	--
MW-2	5/29/2008	99.05	24.73	NP	--	74.32	--
MW-2	10/28/2008	99.05	25.74	NP	--	73.31	--
MW-2	6/22/2009	99.05	25.91	NP	--	73.14	--
MW-2	12/15/2009	99.05	25.87	NP	--	73.18	--
MW-2	5/24/2010	266.69	24.64	NP	--	242.05	--
MW-2	10/12/2010	266.69	25.03	NP	--	241.66	--
MW-2	5/10/2011	266.69	23.23	NP	--	243.46	--
MW-2	11/29/2011	266.69	24.82	NP	--	241.87	--
MW-2	6/1/2012	266.69	23.60	NP	--	243.09	--
MW-2	11/29/2012	266.69	23.86	NP	--	242.83	--
MW-2	5/9/2013	266.69	23.41	NP	--	243.28	--
MW-2	11/19/2013	266.69	24.40	NP	--	242.29	--
MW-2	5/13/2014	266.69	23.74	NP	--	242.95	--
MW-2	5/7/2015	266.69	24.14	NP	--	242.55	--
MW-2	3/2/2016	266.69	23.79	NP	--	242.90	--
MW-2	6/6/2016	266.69	24.49	NP	--	242.20	--
MW-2	9/12/2016	266.69	26.69	NP	--	240.00	--
MW-2	12/12/2016	266.69	23.96	NP	--	242.73	--
MW-2	2/22/2017	266.69	23.18	NP	--	243.51	--
MW-2	8/29/2017	266.69	24.86	NP	--	241.83	--
MW-2	3/13/2018	266.69	24.45	NP	--	242.24	--
MW-2	10/25/2018	266.69	26.85	NP	--	239.84	--
MW-2	2/20/2019	266.69	25.27	NP	--	241.42	--

Table 1
Groundwater Gauging Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-2	5/14/2019	266.69	26.20	NP	--	240.49	--
MW-2	8/27/2019	266.69	27.30	NP	--	239.39	NS
MW-2	11/26/2019	266.69	27.29	NP	--	239.40	--
MW-2	3/26/2020	266.69	25.44	NP	--	241.25	--
MW-2	6/3/2020	266.69	25.60	NP	--	241.09	--
MW-2	8/7/2020	266.69	26.22	NP	--	240.47	--
MW-2	12/10/2020	266.69	24.06	NP	--	242.63	--
MW-2	3/8/2021	266.69	24.32	NP	--	242.37	--
MW-2	6/9/2021	266.69	25.45	NP	--	241.24	--
MW-2	9/13/2021	266.69	27.79	NP	--	238.90	Dry
MW-2	12/7/2021	266.69	25.12	NP	--	241.57	--
MW-2	3/8/2022	266.69	24.48	NP	--	242.21	--
MW-2	6/22/2022	266.69	25.03	NP	--	241.66	--
MW-2	9/22/2022	266.69	26.51	NP	--	240.18	--
MW-2	11/29/2022	266.69	25.93	NP	--	240.76	--
MW-2	2/27/2023	266.69	25.08	NP	--	241.61	--
MW-2	5/25/2023	266.69	25.52	NP	--	241.17	--
MW-2	8/9/2023	266.69	26.04	NP	--	240.65	--
MW-2	12/11/2023	266.69	24.29	NP	--	242.40	--
MW-2	2/6/2024	266.69	23.65	NP	--	243.04	--
MW-3	6/7/1993	98.53	22.28	NP	--	76.25	--
MW-3	3/4/1994	98.53	23.62	NP	--	74.91	--
MW-3	7/6/1994	98.53	23.84	NP	--	74.69	--
MW-3	10/7/1994	98.53	24.21	NP	--	74.32	--
MW-3	12/28/1994	98.53	23.91	NP	--	74.62	--
MW-3	3/13/1995	98.53	23.12	NP	--	75.41	--
MW-3	6/30/1995	98.53	23.87	NP	--	74.66	--
MW-3	9/6/1995	98.53	23.14	NP	--	75.39	--
MW-3	12/8/1995	98.53	23.20	NP	--	75.33	--
MW-3	3/11/1996	98.53	21.63	NP	--	76.90	--
MW-3	6/18/1996	98.53	21.20	NP	--	77.33	--
MW-3	9/9/1996	98.53	21.67	NP	--	76.86	--
MW-3	12/11/1996	98.53	21.87	NP	--	76.66	--
MW-3	3/13/1997	98.53	20.67	NP	--	77.86	--
MW-3	6/5/1997	98.53	19.83	NP	--	78.70	--
MW-3	9/5/1997	98.53	20.72	NP	--	77.81	--
MW-3	4/2/1998	98.53	19.63	NP	--	78.90	--
MW-3	6/8/1998	98.53	20.26	NP	--	78.27	--
MW-3	9/17/1998	98.53	21.21	NP	--	77.32	--
MW-3	12/9/1998	98.53	21.06	NP	--	77.47	--
MW-3	3/17/1999	98.53	18.72	NP	--	79.81	--
MW-3	6/26/1999	98.53	19.92	NP	--	78.61	--
MW-3	9/28/1999	98.53	20.79	NP	--	77.74	--
MW-3	1/19/2000	98.53	20.19	NP	--	78.34	--
MW-3	3/24/2000	98.53	19.64	NP	--	78.89	--
MW-3	7/2/2000	98.53	20.53	NP	--	78.00	--
MW-3	9/14/2000	98.53	21.34	NP	--	77.19	--
MW-3	12/14/2000	98.53	21.90	NP	--	76.63	--
MW-3	9/22/2001	98.53	22.82	NP	--	75.71	--
MW-3	12/9/2001	98.53	22.50	NP	--	76.03	--
MW-3	3/20/2002	98.53	21.55	NP	--	76.98	--

Table 1
Groundwater Gauging Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-3	6/11/2002	98.53	21.69	NP	--	76.84	--
MW-3	12/21/2002	98.53	24.37	NP	--	74.16	--
MW-3	3/19/2003	98.53	23.17	NP	--	75.36	NS
MW-3	6/18/2003	98.53	22.82	NP	--	75.71	--
MW-3	9/23/2003	98.53	23.55	NP	--	74.98	NS
MW-3	10/21/2003	98.53	23.52	NP	--	75.01	--
MW-3	6/29/2004	98.53	--	--	--	--	NS
MW-3	11/15/2004	98.53	23.95	NP	--	74.58	--
MW-3	4/14/2005	98.53	23.90	NP	--	74.63	--
MW-3	12/18/2005	98.53	24.42	NP	--	74.11	--
MW-3	6/11/2006	98.53	23.48	NP	--	75.05	--
MW-3	11/5/2006	98.53	24.59	NP	--	73.94	--
MW-3	9/25/2007	98.53	23.84	NP	--	74.69	--
MW-3	12/31/2007	98.53	23.83	NP	--	74.70	--
MW-3	5/29/2008	98.53	23.90	NP	--	74.63	--
MW-3	10/28/2008	98.53	24.97	NP	--	73.56	--
MW-3	6/22/2009	98.53	25.29	NP	--	73.24	--
MW-3	12/15/2009	98.53	25.14	NP	--	73.39	--
MW-3	5/24/2010	266.00	24.10	NP	--	241.90	--
MW-3	10/12/2010	266.00	24.40	NP	--	241.60	--
MW-3	5/10/2011	266.00	22.55	NP	--	243.45	--
MW-3	11/29/2011	266.00	24.19	NP	--	241.81	--
MW-3	6/1/2012	266.00	22.94	NP	--	243.06	--
MW-3	11/29/2012	266.00	22.90	NP	--	243.10	--
MW-3	5/9/2013	266.00	22.72	NP	--	243.28	--
MW-3	11/19/2013	266.01	24.30	NP	--	241.71	--
MW-3	5/13/2014	266.01	22.95	NP	--	243.06	--
MW-3	5/7/2015	266.01	23.52	NP	--	242.49	--
MW-3	3/2/2016	266.01	22.12	NP	--	243.89	--
MW-3	6/6/2016	266.01	23.76	NP	--	242.25	--
MW-3	9/12/2016	266.01	25.08	NP	--	240.93	--
MW-3	12/12/2016	266.01	22.42	NP	--	243.59	--
MW-3	2/22/2017	266.01	20.02	NP	--	245.99	--
MW-3	8/29/2017	266.01	24.09	NP	--	241.92	--
MW-3	3/13/2018	266.01	23.22	NP	--	242.79	--
MW-3	10/25/2018	266.01	26.11	NP	--	239.90	--
MW-3	2/20/2019	266.01	23.86	NP	--	242.15	NS
MW-3	5/14/2019	266.01	25.42	NP	--	240.59	--
MW-3	8/27/2019	266.01	26.38	NP	--	239.63	NS
MW-3	11/25/2019	266.01	24.70	NP	--	241.31	--
MW-3	3/26/2020	266.01	25.79	NP	--	240.22	--
MW-3	6/2/2020	266.02	24.64	NP	--	241.38	NS
MW-3	8/7/2020	266.02	25.53	NP	--	240.49	--
MW-3	12/10/2020	266.02	24.59	NP	--	241.43	--
MW-3	3/8/2021	266.02	23.11	NP	--	242.91	--
MW-3	6/9/2021	266.02	24.63	NP	--	241.39	--
MW-3	9/13/2021	266.02	26.07	NP	--	239.95	--
MW-3	12/7/2021	266.02	22.98	NP	--	243.04	--
MW-3	3/8/2022	266.02	23.19	NP	--	242.83	--
MW-3	6/22/2022	266.02	24.07	NP	--	241.95	--
MW-3	9/22/2022	266.02	25.76	NP	--	240.26	--
MW-3	11/29/2022	266.02	24.19	NP	--	241.83	--

Table 1
Groundwater Gauging Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-3	2/27/2023	266.02	22.40	NP	--	243.62	--
MW-3	5/25/2023	266.02	24.78	NP	--	241.24	--
MW-3	8/9/2023	266.02	25.33	NP	--	240.69	--
MW-3	12/11/2023	266.02	20.72	NP	--	245.30	--
MW-3	2/6/2024	266.02	22.02	NP	--	244.00	--
MW-4	5/11/1993	100.26	23.03	NP	--	77.23	--
MW-4	3/4/1994	100.26	26.83	22.83	4.00	76.63	--
MW-4	7/6/1994	100.26	25.63	24.20	1.43	75.77	--
MW-4	10/7/1994	100.26	26.07	24.44	1.63	75.49	--
MW-4	12/28/1994	100.26	25.85	24.42	1.43	75.55	--
MW-4	3/13/1995	100.26	25.59	23.71	1.88	76.17	--
MW-4	6/30/1995	100.26	24.64	23.53	1.11	76.51	--
MW-4	9/6/1995	100.26	24.78	23.73	1.05	76.32	--
MW-4	12/8/1995	100.26	24.94	23.89	1.05	76.16	--
MW-4	3/11/1996	100.26	24.68	22.30	2.38	77.48	--
MW-4	6/18/1996	100.26	24.04	21.93	2.11	77.91	--
MW-4	9/9/1996	100.26	24.08	22.23	1.85	77.66	--
MW-4	12/11/1996	100.26	23.07	22.69	0.38	77.49	--
MW-4	3/17/1999	100.26	--	--	--	--	--
MW-4	9/28/1999	100.26	--	--	--	--	--
MW-4	1/19/2000	100.26	--	--	--	--	--
MW-4	3/24/2000	100.26	--	--	--	--	--
MW-4	7/2/2000	100.26	--	--	--	--	--
MW-4	9/14/2000	100.26	--	--	--	--	--
MW-4	9/22/2001	100.26	26.60	23.33	3.27	76.28	--
MW-4	12/9/2001	100.26	25.50	23.13	2.37	76.66	--
MW-4	3/20/2002	100.26	26.50	22.77	3.73	76.74	--
MW-4	6/11/2002	100.26	24.25	23.15	1.10	76.89	--
MW-4	12/21/2002	100.26	--	--	--	--	NS
MW-4	3/19/2003	100.26	--	--	--	--	NS
MW-4	6/18/2003	100.26	--	--	--	--	NS
MW-4	9/23/2003	100.26	22.31	22.24	0.07	78.01	--
MW-4	10/21/2003	100.26	21.79	NP	--	78.47	--
MW-4	6/29/2004	100.26	22.88	NP	--	77.38	--
MW-4	11/15/2004	100.26	23.07	21.62	1.45	78.35	--
MW-4	4/14/2005	100.26	23.82	21.93	1.89	77.95	--
MW-4	12/18/2005	100.26	23.43	23.35	0.08	76.89	--
MW-4	6/11/2006	100.26	21.87	21.86	0.01	78.40	--
MW-4	11/5/2006	100.26	22.92	22.91	0.01	77.35	--
MW-4	9/25/2007	100.26	22.15	22.13	0.02	78.13	--
MW-4	12/31/2007	100.26	--	--	--	--	NS
MW-4	5/29/2008	100.26	--	--	--	--	NM
MW-4	10/28/2008	100.26	--	--	--	--	Dry
MW-4	6/22/2009	100.26	24.21	24.17	0.04	76.08	--
MW-4	12/15/2009	100.26	24.04	23.76	0.28	76.44	--
MW-4	5/24/2010	267.78	--	--	--	--	NM
MW-4	5/10/2011	267.78	--	--	--	--	NM
MW-4	11/29/2011	267.78	--	--	--	--	NM
MW-4	6/1/2012	267.78	--	--	--	--	NM
MW-4	11/29/2012	267.78	24.00	23.90	0.10	243.86	--
MW-4	5/9/2013	267.78	26.48	22.65	3.83	244.36	--

Table 1
Groundwater Gauging Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-4	11/19/2013	267.78	26.61	24.80	1.81	242.62	--
MW-4	5/13/2014	267.78	25.80	23.30	2.50	243.98	--
MW-4	5/7/2015	267.78	26.50	23.55	2.95	243.64	--
MW-4	3/2/2016	267.78	24.67	23.27	1.40	244.23	--
MW-4	6/6/2016	267.78	25.86	24.33	1.53	243.14	--
MW-4	9/12/2016	267.78	26.51	25.40	1.11	242.16	--
MW-4	12/12/2016	267.78	23.27	NP	--	244.51	--
MW-4	2/22/2017	267.78	22.63	22.56	0.07	245.21	--
MW-4	8/29/2017	267.78	26.50	24.82	1.68	242.62	NS
MW-4	3/13/2018	267.78	24.74	24.26	0.48	243.42	NS
MW-4	10/25/2018	267.78	26.76	26.48	0.28	241.24	NS
MW-4	2/20/2019	267.77	24.80	NP	--	242.97	NS
MW-4	5/14/2019	267.77	26.33	NP	--	241.44	NS
MW-4	8/27/2019	267.76	26.51	NP	--	241.25	NS
MW-4	11/25/2019	267.75	26.51	NP	--	241.24	NS
MW-4	3/26/2020	267.74	24.62	NP	--	243.12	--
MW-4	6/2/2020	267.74	24.65	NP	--	243.09	NS
MW-4	8/6/2020	267.73	26.29	26.15	0.14	241.56	NS
MW-4	12/10/2020	267.72	25.81	25.76	0.05	241.95	--
MW-4	3/8/2021	267.72	24.01	NP	--	243.71	--
MW-4	6/9/2021	267.71	25.28	NP	--	242.43	--
MW-4	9/13/2021	267.70	26.82	NP	--	240.88	Dry
MW-4	12/7/2021	267.70	24.36	NP	--	243.34	--
MW-4	3/8/2022	267.69	23.40	NP	--	244.29	--
MW-4	6/22/2022	267.68	25.41	NP	--	242.27	--
MW-4	9/22/2022	267.68	26.70	NP	--	240.98	IW
MW-4	11/29/2022	267.67	26.76	26.75	0.01	240.92	IW
MW-4	12/12/2022	267.67	23.49	NP	--	244.18	--
MW-4	2/27/2023	267.67	22.01	NP	--	245.66	--
MW-4	5/25/2023	267.66	--	--	--	--	--
MW-4	8/9/2023	267.65	25.96	NP	--	241.69	IW
MW-4	12/11/2023	267.64	18.73	NP	--	248.91	--
MW-4	2/6/2024	267.64	20.80	NP	--	246.84	--
MW-5	5/11/1993	100.88	22.97	NP	--	77.91	--
MW-5	3/4/1994	100.88	24.35	NP	--	76.53	--
MW-5	7/6/1994	100.88	24.72	NP	--	76.16	--
MW-5	10/7/1994	100.88	25.02	NP	--	75.86	--
MW-5	12/28/1994	100.88	24.98	NP	--	75.90	--
MW-5	3/13/1995	100.88	24.41	NP	--	76.47	--
MW-5	6/30/1995	100.88	24.06	NP	--	76.82	--
MW-5	9/6/1995	100.88	24.27	NP	--	76.61	--
MW-5	12/8/1995	100.88	24.49	NP	--	76.39	--
MW-5	3/11/1996	100.88	23.33	NP	--	77.55	--
MW-5	6/18/1996	100.88	22.91	NP	--	77.97	--
MW-5	9/9/1996	100.88	23.07	NP	--	77.81	--
MW-5	12/11/1996	100.88	23.13	NP	--	77.75	--
MW-5	3/13/1997	100.88	22.28	NP	--	78.60	--
MW-5	6/5/1997	100.88	21.78	NP	--	79.10	--
MW-5	9/5/1997	100.88	21.92	NP	--	78.96	--
MW-5	4/2/1998	100.88	21.35	NP	--	79.53	--
MW-5	6/8/1998	100.88	21.48	NP	--	79.40	--

Table 1
Groundwater Gauging Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-5	9/17/1998	100.88	22.12	NP	--	78.76	--
MW-5	12/9/1998	100.88	22.33	NP	--	78.55	--
MW-5	3/17/1999	100.88	20.93	NP	--	79.95	--
MW-5	6/26/1999	100.88	21.02	NP	--	79.86	--
MW-5	9/28/1999	100.88	21.76	NP	--	79.12	--
MW-5	1/19/2000	100.88	21.65	NP	--	79.23	--
MW-5	3/24/2000	100.88	21.48	NP	--	79.40	--
MW-5	7/2/2000	100.88	22.01	NP	--	78.87	--
MW-5	9/14/2000	100.88	22.59	NP	--	78.29	--
MW-5	12/14/2000	100.88	22.95	NP	--	77.93	--
MW-5	9/22/2001	100.88	23.86	NP	--	77.02	--
MW-5	12/9/2001	100.88	23.90	NP	--	76.98	--
MW-5	3/20/2002	100.88	23.13	NP	--	77.75	--
MW-5	6/11/2002	100.88	23.09	NP	--	77.79	--
MW-5	12/21/2002	100.88	24.65	NP	--	76.23	--
MW-5	3/19/2003	100.88	24.68	NP	--	76.20	--
MW-5	6/18/2003	100.88	24.37	NP	--	76.51	--
MW-5	9/23/2003	100.88	24.88	NP	--	76.00	--
MW-5	10/21/2003	100.88	24.99	NP	--	75.89	--
MW-5	6/29/2004	100.88	24.22	NP	--	76.66	--
MW-5	11/15/2004	100.88	24.97	NP	--	75.91	--
MW-5	4/14/2005	100.88	25.08	NP	--	75.80	--
MW-5	12/18/2005	100.88	25.47	NP	--	75.41	--
MW-5	6/11/2006	100.88	24.43	NP	--	76.45	--
MW-5	11/5/2006	100.88	25.55	NP	--	75.33	--
MW-5	9/25/2007	100.88	24.95	NP	--	75.93	--
MW-5	12/31/2007	100.88	25.16	NP	--	75.72	--
MW-5	5/29/2008	100.88	25.01	NP	--	75.87	--
MW-5	10/28/2008	100.88	25.89	NP	--	74.99	--
MW-5	6/22/2009	100.88	26.95	NP	--	73.93	--
MW-5	12/15/2009	100.88	26.57	NP	--	74.31	--
MW-5	5/24/2010	100.88	25.55	NP	--	75.33	--
MW-5	10/12/2010	268.46	25.74	NP	--	242.72	--
MW-5	5/10/2011	268.46	24.61	NP	--	243.85	--
MW-5	11/29/2011	268.46	25.55	NP	--	242.91	--
MW-5	6/1/2012	268.46	24.60	NP	--	243.86	--
MW-5	11/29/2012	268.46	25.31	NP	--	243.15	--
MW-5	5/9/2013	268.46	24.52	NP	--	243.94	--
MW-5	11/19/2013	268.46	26.35	NP	--	242.11	--
MW-5	5/13/2014	268.46	25.18	NP	--	243.28	--
MW-5	5/7/2015	268.46	25.22	NP	--	243.24	--
MW-5	3/2/2016	268.46	25.55	NP	--	242.91	--
MW-5	6/6/2016	268.46	25.74	NP	--	242.72	--
MW-5	9/12/2016	268.46	27.43	NP	--	241.03	IW
MW-5	12/12/2016	268.46	25.36	NP	--	243.10	--
MW-5	2/22/2017	268.46	25.00	NP	--	243.46	--
MW-5	8/29/2017	268.46	26.20	NP	--	242.26	--
MW-5	3/13/2018	268.46	26.39	NP	--	242.07	--
MW-5	10/25/2018	268.46	27.13	NP	--	241.33	NS
MW-5	2/20/2019	268.46	27.33	NP	--	241.13	NS
MW-5	5/14/2019	268.46	27.24	NP	--	241.22	--
MW-5	8/27/2019	268.47	27.40	NP	--	241.07	NS

Table 1
Groundwater Gauging Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-5	11/25/2019	268.47	27.55	NP	--	240.92	NS
MW-5	3/25/2020	268.47	26.84	NP	--	241.63	--
MW-5	6/2/2020	268.47	26.80	NP	--	241.67	NS
MW-5	8/6/2020	268.47	27.03	NP	--	241.44	NS
MW-5	12/10/2020	268.48	--	--	--	--	Dry
MW-5	3/8/2021	268.48	26.06	NP	--	242.42	--
MW-5	6/9/2021	268.48	26.70	NP	--	241.78	--
MW-5	9/13/2021	268.48	--	--	--	--	Dry
MW-5	12/7/2021	268.48	--	--	--	--	Dry
MW-5	3/8/2022	268.49	26.61	NP	--	241.88	IW
MW-5	6/22/2022	268.49	26.90	NP	--	241.59	--
MW-5	9/22/2022	268.49	27.15	NP	--	241.34	IW
MW-5	11/29/2022	268.49	27.19	NP	--	241.30	IW
MW-5	12/12/2022	268.49	27.19	NP	--	241.30	--
MW-5	2/27/2023	268.49	--	--	--	--	Dry
MW-5	5/25/2023	268.50	27.62	NP	--	240.88	--
MW-5	8/9/2023	268.50	--	--	--	--	Dry
MW-5	2/6/2024	268.50	--	NP	--	--	Dry
MW-6	9/5/1997	98.62	21.20	NP	--	77.42	--
MW-6	4/2/1998	98.62	19.70	NP	--	78.92	--
MW-6	6/8/1998	98.62	20.58	NP	--	78.04	--
MW-6	9/17/1998	98.62	21.87	NP	--	76.75	--
MW-6	12/9/1998	98.62	21.20	NP	--	77.42	--
MW-6	3/17/1999	98.62	18.49	NP	--	80.13	--
MW-6	6/26/1999	98.62	18.49	NP	--	80.13	--
MW-6	9/28/1999	98.62	21.40	NP	--	77.22	--
MW-6	1/19/2000	98.62	20.39	NP	--	78.23	--
MW-6	3/24/2000	98.62	19.63	NP	--	78.99	--
MW-6	9/14/2000	98.62	21.92	NP	--	76.70	--
MW-6	12/14/2000	98.62	22.51	NP	--	76.11	--
MW-6	9/22/2001	98.62	23.31	NP	--	75.31	--
MW-6	12/9/2001	98.62	22.24	NP	--	76.38	--
MW-6	3/20/2002	98.62	21.44	NP	--	77.18	--
MW-6	6/11/2002	98.62	21.90	NP	--	76.72	--
MW-6	12/21/2002	98.62	--	--	--	--	NS
MW-6	3/19/2003	98.62	--	--	--	--	NS
MW-6	6/18/2003	98.62	--	--	--	--	NS
MW-6	9/23/2003	98.62	--	--	--	--	NS
MW-6	10/21/2003	98.62	22.69	NP	--	75.93	--
MW-6	6/29/2004	98.62	22.88	NP	--	75.74	--
MW-6	11/15/2004	98.62	24.12	NP	--	74.50	--
MW-6	4/14/2005	98.62	23.75	NP	--	74.87	--
MW-6	12/18/2005	98.62	24.79	NP	--	73.83	--
MW-6	6/11/2006	98.62	23.09	NP	--	75.53	--
MW-6	11/5/2006	98.62	25.80	NP	--	72.82	--
MW-6	9/25/2007	98.62	24.13	NP	--	74.49	--
MW-6	12/31/2007	98.62	23.59	NP	--	75.03	--
MW-6	5/29/2008	98.62	24.21	NP	--	74.41	--
MW-6	10/28/2008	98.62	25.47	NP	--	73.15	--
MW-6	6/22/2009	98.62	25.32	NP	--	73.30	--
MW-6	12/15/2009	98.62	23.33	NP	--	75.29	--

Table 1
Groundwater Gauging Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-6	5/24/2010	266.06	22.90	NP	--	243.16	--
MW-6	10/12/2010	266.06	23.06	NP	--	243.00	--
MW-6	5/10/2011	266.06	22.01	NP	--	244.05	--
MW-6	11/29/2011	266.06	23.42	NP	--	242.64	--
MW-6	6/1/2012	266.06	22.75	NP	--	243.31	--
MW-6	11/29/2012	266.06	--	--	--	--	NM
MW-6	5/9/2013	266.06	22.82	NP	--	243.24	--
MW-6	11/19/2013	266.06	24.00	NP	--	242.06	--
MW-6	5/13/2014	266.06	22.76	NP	--	243.30	--
MW-6	5/7/2015	266.06	23.71	NP	--	242.35	--
MW-6	6/6/2016	266.06	23.82	NP	--	242.24	--
MW-6	9/12/2016	266.06	25.22	NP	--	240.84	--
MW-6	12/12/2016	266.06	22.66	NP	--	243.40	--
MW-6	2/22/2017	266.06	21.24	NP	--	244.82	--
MW-6	8/29/2017	266.06	24.16	NP	--	241.90	--
MW-6	3/13/2018	265.97	23.04	NP	--	242.93	--
MW-6	10/25/2018	265.97	26.28	NP	--	239.69	--
MW-6	2/20/2019	265.97	13.90	NP	--	252.07	NS
MW-6	2/22/2019	265.97	14.14	NP	--	251.83	--
MW-6	5/14/2019	265.98	25.51	NP	--	240.47	NS
MW-6	8/27/2019	265.98	26.73	NP	--	239.25	--
MW-6	11/26/2019	265.98	26.86	NP	--	239.12	NS
MW-6	3/26/2020	265.99	15.40	NP	--	250.59	--
MW-6	6/2/2020	265.99	15.09	NP	--	250.90	--
MW-6	8/7/2020	265.99	26.00	NP	--	239.99	NS
MW-6	12/10/2020	266.00	14.24	NP	--	251.76	--
MW-6	3/8/2021	266.00	13.52	NP	--	252.48	--
MW-6	6/9/2021	266.01	24.83	NP	--	241.18	--
MW-6	9/13/2021	266.01	26.14	NP	--	239.87	--
MW-6	12/7/2021	266.01	14.09	NP	--	251.92	--
MW-6	3/8/2022	266.02	15.19	NP	--	250.83	--
MW-6	6/22/2022	266.02	15.03	NP	--	250.99	--
MW-6	9/22/2022	266.02	25.64	NP	--	240.38	--
MW-6	11/29/2022	266.02	24.75	NP	--	241.27	--
MW-6	2/27/2023	266.03	18.10	NP	--	247.93	--
MW-6	5/25/2023	266.03	24.19	NP	--	241.84	--
MW-6	8/9/2023	266.03	25.14	NP	--	240.89	--
MW-6	12/11/2023	266.04	11.78	NP	--	254.26	--
MW-6	2/6/2024	266.04	20.73	NP	--	245.31	--
MW-7	4/2/1998	97.32	18.79	NP	--	78.53	--
MW-7	6/8/1998	97.32	19.60	NP	--	77.72	--
MW-7	9/17/1998	97.32	20.82	NP	--	76.50	--
MW-7	12/9/1998	97.32	20.21	NP	--	77.11	--
MW-7	3/17/1999	97.32	17.61	NP	--	79.71	--
MW-7	6/26/1999	97.32	19.29	NP	--	78.03	--
MW-7	12/14/2000	97.32	--	--	--	--	--
MW-7	12/9/2001	97.32	--	--	--	--	--
MW-7	3/20/2002	97.32	--	--	--	--	--
MW-7	6/11/2002	97.32	--	--	--	--	--
MW-7	6/18/2003	97.32	--	--	--	--	AB

Table 1
Groundwater Gauging Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-8	4/2/1998	98.49	19.99	NP	--	78.50	--
MW-8	6/8/1998	98.49	20.39	NP	--	78.10	--
MW-8	9/17/1998	98.49	21.21	NP	--	77.28	--
MW-8	12/9/1998	98.49	21.03	NP	--	77.46	--
MW-8	3/17/1999	98.49	19.03	NP	--	79.46	--
MW-8	6/26/1999	98.49	20.02	NP	--	78.47	--
MW-8	12/14/2000	98.49	--	--	--	--	--
MW-8	12/9/2001	98.49	--	--	--	--	--
MW-8	3/20/2002	98.49	--	--	--	--	--
MW-8	6/11/2002	98.49	--	--	--	--	--
MW-8	6/18/2003	98.49	--	--	--	--	AB
MW-9	10/12/2010	263.35	23.89	NP	--	239.46	--
MW-9	5/10/2011	263.35	20.70	NP	--	242.65	--
MW-9	11/29/2011	263.35	22.64	NP	--	240.71	--
MW-9	6/1/2012	263.35	--	--	--	--	NM
MW-9	11/29/2012	263.35	--	--	--	--	NM
MW-9	5/9/2013	263.35	21.09	NP	--	242.26	--
MW-9	11/19/2013	263.35	22.80	NP	--	240.55	--
MW-9	5/13/2014	263.35	21.39	NP	--	241.96	--
MW-9	5/7/2015	263.35	22.04	NP	--	241.31	--
MW-9	3/2/2016	263.35	22.29	NP	--	241.06	NS
MW-9	6/6/2016	263.35	22.01	NP	--	241.34	NS
MW-9	9/12/2016	263.35	23.43	NP	--	239.92	--
MW-9	2/22/2017	263.35	21.71	NP	--	241.64	NS
MW-9	8/29/2017	263.35	22.47	NP	--	240.88	--
MW-9	3/13/2018	263.35	21.78	NP	--	241.57	NS
MW-9	10/25/2018	263.35	24.61	NP	--	238.74	--
MW-9	2/20/2019	263.35	23.27	NP	--	240.08	--
MW-9	5/13/2019	263.35	23.78	NP	--	239.57	--
MW-9	8/27/2019	263.35	25.09	NP	--	238.26	--
MW-9	11/26/2019	263.35	25.60	NP	--	237.75	--
MW-9	3/26/2020	263.35	23.72	NP	--	239.63	--
MW-9	6/2/2020	263.35	23.76	NP	--	239.59	--
MW-9	8/7/2020	263.36	24.48	NP	--	238.88	--
MW-9	12/10/2020	263.36	24.33	NP	--	239.03	--
MW-9	3/8/2021	263.36	23.00	NP	--	240.36	--
MW-9	6/9/2021	263.36	23.02	NP	--	240.34	--
MW-9	9/13/2021	263.36	24.60	NP	--	238.76	--
MW-9	12/7/2021	263.36	23.47	NP	--	239.89	--
MW-9	9/22/2022	263.36	23.66	NP	--	239.70	--
MW-9	11/29/2022	263.37	23.65	NP	--	239.72	--
MW-9	5/25/2023	263.37	22.40	NP	--	240.97	--
MW-9	8/9/2023	263.37	22.85	NP	--	240.52	--
MW-9	12/11/2023	263.37	20.29	NP	--	243.08	--
MW-9	2/6/2024	263.37	21.88	NP	--	241.49	--
MW-10	6/1/2012	268.30	24.20	NP	--	244.10	--
MW-10	11/29/2012	268.30	25.00	NP	--	243.30	--
MW-10	5/9/2013	268.30	24.25	NP	--	244.05	--
MW-10	11/19/2013	268.30	25.80	NP	--	242.50	--
MW-10	5/13/2014	268.30	24.78	NP	--	243.52	--

Table 1
Groundwater Gauging Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-10	5/7/2015	268.30	24.84	NP	--	243.46	--
MW-10	9/12/2016	268.30	26.52	NP	--	241.78	--
MW-10	8/29/2017	268.30	25.93	NP	--	242.37	--
MW-11	10/25/2018	266.38	26.40	NP	--	239.98	--
MW-11	2/20/2019	266.38	25.49	NP	--	240.89	--
MW-11	5/13/2019	266.38	25.99	NP	--	240.39	--
MW-11	8/27/2019	266.38	26.83	NP	--	239.55	--
MW-11	11/25/2019	266.39	27.13	NP	--	239.26	--
MW-11	3/25/2020	266.39	25.39	NP	--	241.00	--
MW-11	6/2/2020	266.40	25.34	NP	--	241.06	--
MW-11	8/6/2020	266.40	25.79	NP	--	240.61	--
MW-11	12/10/2020	266.40	26.25	NP	--	240.15	--
MW-11	3/8/2021	266.41	24.40	NP	--	242.01	--
MW-11	6/9/2021	266.41	25.12	NP	--	241.29	--
MW-11	9/13/2021	266.42	26.32	NP	--	240.10	--
MW-11	12/7/2021	266.42	25.70	NP	--	240.72	--
MW-11	9/22/2022	266.43	26.16	NP	--	240.27	--
MW-11	11/29/2022	266.43	26.41	NP	--	240.02	--
MW-11	2/27/2023	266.44	25.41	NP	--	241.03	--
MW-11	5/25/2023	266.44	25.45	NP	--	240.99	--
MW-11	8/9/2023	266.44	25.83	NP	--	240.61	--
MW-11	12/11/2023	266.45	25.11	NP	--	241.34	--
MW-11	2/6/2024	266.45	24.01	NP	--	242.44	--
MW-12	10/25/2018	266.51	27.39	NP	--	239.12	--
MW-12	2/20/2019	266.51	26.21	NP	--	240.30	--
MW-12	5/13/2019	266.52	26.78	NP	--	239.74	--
MW-12	8/27/2019	266.52	27.82	NP	--	238.70	--
MW-12	11/25/2019	266.52	28.19	NP	--	238.33	--
MW-12	3/26/2020	266.52	26.50	NP	--	240.02	--
MW-12	6/2/2020	266.53	26.53	NP	--	240.00	--
MW-12	8/6/2020	266.53	27.05	NP	--	239.48	--
MW-12	12/10/2020	266.53	27.31	NP	--	239.22	--
MW-12	3/8/2021	266.53	25.32	NP	--	241.21	--
MW-12	6/9/2021	266.54	26.11	NP	--	240.43	--
MW-12	9/13/2021	266.54	27.40	NP	--	239.14	--
MW-12	12/7/2021	266.54	26.55	NP	--	239.99	--
MW-12	9/22/2022	266.55	26.87	NP	--	239.68	--
MW-12	11/29/2022	266.55	27.05	NP	--	239.50	--
MW-12	2/27/2023	266.55	25.85	NP	--	240.70	--
MW-12	5/25/2023	266.55	25.71	NP	--	240.84	--
MW-12	8/9/2023	266.56	26.00	NP	--	240.56	--
MW-12	12/11/2023	266.56	24.82	NP	--	241.74	--
MW-12	2/6/2024	266.56	23.81	NP	--	242.75	--
MW-13	2/6/2024	265.51	19.39	NP	--	247.12	--
MW-14	2/6/2024	266.17	21.64	NP	--	244.53	--
MW-15	2/6/2024	268.67	26.99	NP	--	241.68	--

Table 1
Groundwater Gauging Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-16	2/6/2024	268.03	26.24	NP	--	241.79	--
VE-1	4/2/1998	--	--	--	--	--	--
VE-1	9/17/1998	--	--	--	--	--	--
VE-1	12/9/1998	--	--	--	--	--	--
VE-1	3/17/1999	--	--	--	--	--	--
VE-1	6/26/1999	--	--	--	--	--	--
VE-1	9/28/1999	--	--	--	--	--	--
VE-1	3/24/2000	--	--	--	--	--	--
VE-1	7/2/2000	--	--	--	--	--	--
VE-1	9/14/2000	--	--	--	--	--	--
VE-1	12/14/2000	--	23.02	NP	--	--	--
VE-1	9/22/2001	--	24.22	NP	--	--	--
VE-1	12/9/2001	--	23.90	23.83	0.07	--	--
VE-1	3/20/2002	--	23.30	23.25	0.05	--	--
VE-1	6/11/2002	--	23.25	23.14	0.11	--	--
VE-1	12/21/2002	--	24.89	NP	--	--	--
VE-1	3/19/2003	--	24.71	NP	--	--	--
VE-1	6/18/2003	--	24.50	24.45	0.05	--	--
VE-1	9/23/2003	--	25.01	24.98	0.03	--	--
VE-1	10/22/2003	--	24.98	24.81	0.17	--	--
VE-1	6/29/2004	--	25.12	NP	--	--	--
VE-1	11/15/2004	--	25.40	24.79	0.61	--	--
VE-1	4/14/2005	--	26.15	24.84	1.31	--	--
VE-1	12/18/2005	--	26.00	25.65	0.35	--	--
VE-1	6/11/2006	--	26.53	NP	--	--	--
VE-1	11/5/2006	--	26.33	25.88	0.45	--	--
VE-1	9/25/2007	--	25.02	24.88	0.14	--	--
VE-1	12/31/2007	--	--	--	--	--	NS
VE-1	5/29/2008	--	25.63	24.79	0.84	--	--
VE-1	10/28/2008	--	26.07	25.80	0.27	--	--
VE-1	6/22/2009	--	--	--	--	--	Dry
VE-1	12/15/2009	--	26.56	26.50	0.06	--	--
VE-1	5/24/2010	268.17	26.70	NP	--	241.47	NS
VE-1	5/10/2011	268.17	--	--	--	--	NM
VE-1	11/29/2012	268.17	24.05	23.95	0.10	244.20	--
VE-1	5/9/2013	268.17	24.23	NP	--	243.94	NS
VE-1	11/19/2013	268.17	26.35	25.80	0.55	242.26	--
VE-1	5/13/2014	268.17	25.20	24.80	0.40	243.29	--
VE-1	5/7/2015	268.17	25.40	24.79	0.61	243.26	--
VE-1	3/2/2016	268.17	24.99	NP	--	243.18	NS
VE-2	5/7/2015	--	--	--	--	--	Dry
VE-2	3/2/2016	--	13.84	NP	--	--	NS
VE-3	3/2/2016	--	12.99	NP	--	--	NS
VE-4	3/2/2016	--	14.45	NP	--	--	NS
VE-5	3/2/2016	--	14.15	NP	--	--	NS

Table 1
Groundwater Gauging Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers

Notes:

TOC - Top of Casing

ft - feet (in NAVD 88)

LNAPL - Light Non-Aqueous Phase Liquid

* - Corrected for LNAPL if present (assumes LNAPL specific gravity = 0.80)

Wells were resurveyed in 2024 and are referenced to vertical datum NAVD 88 and horizontal datum NAD 83 (2011)

-- - No Information Available

NP - No Product

Dry - Well Dry

AB - Well Abandoned

IW - Insufficient volume of water in the well to collect representative sample

NM - Not Measured

NS - Not Sampled

12/12/2022 - Data collected at MW-1, MW-4, and MW-5 prior to PetroFix injection for baseline readings

Table 2
Groundwater Analytical Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

CONSTITUENT		B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Dissolved Lead	Total Lead
UNIT		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		5	1000	700	1000	20	0.01	5	800	500	500	15	15
Well ID	Date												
GMW-1	5/10/2011	2.4	< 1.0	69.7	94.8	< 1.0	--	--	5,930	1,900	< 420	--	28.4
GMW-1	11/29/2011	< 1.0	< 1.0	86.9	113	--	--	--	6,080	610	< 380	--	< 10.0
GMW-1	5/9/2013	< 1.0	< 1.0	4.4	4.6	< 1.0	--	--	1,010	< 420	< 420	< 10.0	< 10.0
GMW-1	11/19/2013	< 0.50	< 0.70	6.6	6.8	< 0.50	--	--	1,400	2,500	< 73	1.2	16.7
GMW-1	5/14/2014	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	--	--	590	560	< 66	< 4.7	< 4.7
GMW-1	5/7/2015	< 0.50	< 0.50	10	10	< 0.50	--	--	1,600	480	< 66	< 4.7	< 4.7
GMW-1	3/2/2016	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	--	--	1,400	< 46	< 100	--	--
GMW-1	6/6/2016	< 0.50	< 0.50	5.3	4.0	< 0.50	--	--	3,300	130	< 100	--	--
GMW-1	9/12/2016	< 0.50	< 0.50	32	34	< 0.50	--	--	4,600	210	< 67	--	--
GMW-1	12/12/2016	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	--	--	350	< 50	400	--	--
GMW-1	2/22/2017	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	--	--	82.2 J	< 82.5	< 165	--	--
GMW-1	8/29/2017	< 0.331	0.480 J	2.45	2.66 J	< 0.367	--	--	2,070	216	104 J	--	--
GMW-1	3/13/2018	< 1.00	< 1.00	0.394 J	< 3.00	< 1.00	--	--	2,500	99.7 J	< 250	--	--
GMW-1	10/25/2018	< 1.00	< 1.00	9.58	12.8	< 1.00	< 0.0100	< 1.00	4,200	9,050	346 J	14.5	16.2
GMW-1	2/20/2019	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	< 0.00240	< 0.361	773 B	143 J	< 83.3	< 1.90	< 1.90
GMW-1	5/13/2019	< 0.331	< 0.412	2.36	4.18	< 0.367	< 0.00240	< 0.361	985	771	< 83.3	--	< 1.90
GMW-1	8/27/2019	< 0.0896	< 0.412	12	13.9	< 0.102	< 0.00240	< 0.108	2,750	777	< 167	--	8.01
GMW-1	3/25/2020	0.171 J	< 0.412	1.1	1.06 J	< 0.102	< 0.00240	< 0.108	594	409	< 83.3	--	< 1.90
GMW-1	6/2/2020	< 0.0941	< 0.278	0.216 J	0.210 J	< 0.101	< 0.00536	< 0.0819	1,840	--	--	--	< 2.95
GMW-1	8/6/2020	0.242 J	1.98	4.55	4.15	< 0.101	< 0.00536	< 0.0819	1,400	751	< 83.3	--	3.04 J
GMW-1	3/8/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	< 1.0	< 250	< 120	< 370	< 10	< 10
GMW-1	6/9/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	2,200	420	< 370	< 2.0	< 2.0
GMW-1	9/13/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	700	2,600	< 350	< 2.0	3.2
GMW-1	12/7/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	590	360	< 360	< 2.0	< 2.0
GMW-1	9/22/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	260	< 270	< 0.50	1.9
GMW-1	11/29/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	150	< 360	< 2.0	2.3
GMW-1	2/27/2023	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 50	180	< 370	< 2.0	< 2.0
GMW-1	5/25/2023	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 50	200	< 370	< 2.0	74
MW-1	5/11/1993	82	11	8	14	--	--	--	3,300	--	--	--	--
MW-1	3/4/1994	6.0	3.0	3.0	11	--	--	--	830	580	--	< 3.0	38
MW-1	7/6/1994	5.0	< 0.5	2.0	10	--	--	--	900	< 250	--	--	--
MW-1	10/7/1994	6.0	< 0.5	3.0	11	--	--	--	1,500	--	--	--	--
MW-1	12/28/1994	5.0	< 0.5	2.0	7.0	--	--	--	1,400	--	--	--	--
MW-1	3/13/1995	16	< 0.5	3.0	9.0	--	--	--	1,400	--	--	--	--
MW-1	6/30/1995	4.0	< 0.5	3.0	7.0	--	--	--	1,400	--	--	--	--
MW-1	9/6/1995	5.0	< 0.5	3.0	6.0	--	--	--	1,300	--	--	--	--
MW-1	12/8/1995	7.0	2.0	2.0	7.0	--	--	--	1,300	--	--	--	--
MW-1	3/11/1996	3.0	< 0.5	< 0.5	1.0	--	--	--	900	--	--	--	--
MW-1	6/18/1996	1.0	1.0	< 0.5	2.0	--	--	--	400	--	--	--	--
MW-1	9/9/1996	2.0	< 0.5	1.0	1.0	13	--	--	600	--	--	--	--
MW-1	12/11/1996	4.0	2.0	2.0	4.0	< 10	--	--	710	--	--	--	--
MW-1	3/13/1997	< 0.5	< 0.5	< 0.5	< 1.0	< 5.0	--	--	100	--	--	--	--
MW-1	6/5/1997	2.0	2.0	< 0.5	< 1.5	5.0	--	--	250	--	--	--	--
MW-1	9/5/1997	8.0	4.0	2.0	6.0	8.0	--	--	300	--	--	--	--

Table 2
Groundwater Analytical Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

CONSTITUENT		B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Dissolved Lead	Total Lead
UNIT		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		5	1000	700	1000	20	0.01	5	800	500	500	15	15
MW-1	4/2/1998	1.0	3.0	< 0.5	< 1.5	< 5.0	--	--	210	--	--	--	--
MW-1	6/8/1998	< 0.5	3.0	1.0	4.0	6.0	--	--	300	--	--	--	--
MW-1	12/9/1998	< 0.5	< 5.0	< 5.0	< 5.0	< 5.0	--	--	< 500	--	--	--	--
MW-1	6/26/1999	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 100	--	--	--	--
MW-1	1/19/2000	< 0.5	4.0	1.0	3.0	< 0.5	--	--	< 50	--	--	--	--
MW-1	7/2/2000	1.0	< 0.5	1.0	2.0	2.0	--	--	120	--	--	--	--
MW-1	12/14/2000	< 10	19	< 10	< 30	< 40	--	--	1,700	--	--	--	--
MW-1	10/21/2003	32.5	4.61	17.3	19.2	< 1.00	--	--	3,270	--	--	--	--
MW-1	12/18/2005	10.8	2.04	1.23	2.76	< 1.00	--	--	2,960	--	--	--	--
MW-1	6/11/2006	11.4	1.12	1.6	2.34	19.8	--	--	1,840	--	--	--	--
MW-1	11/5/2006	73.2	6.12	2.04	< 6.00	--	--	--	3,880	--	--	--	--
MW-1	9/25/2007	27.8	1.67	0.86	< 3.00	--	--	--	1,640	--	--	--	--
MW-1	12/31/2007	22.7	1.34	1.03	< 3.00	--	--	--	1,970	--	--	--	--
MW-1	5/29/2008	3.58	0.58	< 0.500	< 3.00	--	--	--	2,370	--	--	--	--
MW-1	10/28/2008	2.8	1.07	< 0.500	< 3.00	--	--	--	1,450	--	--	--	--
MW-1	6/22/2009	30	5.7	24	30.5	--	--	--	2,200	--	--	< 2.00	4.9
MW-1	12/15/2009	11	2.0	4.8	3.6	--	--	--	1,500	--	--	< 2.00	3.8
MW-1	5/24/2010	18	< 2.5	< 2.5	6.4	--	--	--	940	--	--	--	--
MW-1	10/12/2010	2.8	< 1.0	1.2	< 3.0	5.2	--	--	849	--	--	--	< 10.0
MW-1	5/10/2011	17.8	6.6	1.8	10.9	2.5	--	--	642	840	< 420	--	< 10.0
MW-1	11/29/2011	5.5	< 1.0	< 1.0	< 3.0	--	--	--	815	< 75	< 380	--	10.3
MW-1	6/1/2012	3.6	< 1.0	< 1.0	3.0	7.4	--	--	544	362	< 396	< 10.0	< 10.0
MW-1	11/29/2012	1.2	< 1.0	< 1.0	< 3.0	< 1.0	--	--	1,320	< 430	< 430	< 3.0	11.3
MW-1	5/9/2013	6.3	< 1.0	< 1.0	4.1	1.6	--	--	557	620	< 430	< 10.0	< 10.0
MW-1	11/19/2013	1.9 J	< 0.70	< 0.80	1.7 J	1.5 J	--	--	470	400	320	0.15 J	4.8
MW-1	5/13/2014	1.4	< 0.50	< 0.50	0.57 J	0.67 J	--	--	490	250	110 J	< 4.7	6.9 J
MW-1	5/7/2015	1.2	< 0.50	< 0.50	< 0.50	< 0.50	--	--	610	270	190 J	7.1 J	18.7
MW-1	3/2/2016	1.2	< 0.50	0.77 J	3.0	< 0.50	--	--	460	140	< 110	--	--
MW-1	2/22/2017	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	--	--	212	447	222 J	--	--
MW-1	8/29/2017	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	--	--	526	611	450	--	--
MW-1	3/13/2018	< 1.00	< 1.00	< 1.00	< 3.00	< 1.00	--	--	298 B	369	352	--	--
MW-1	2/22/2019	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	< 0.00240	< 0.361	< 31.6	369	322	< 1.90	< 1.90
MW-1	5/14/2019	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	< 0.00240	< 0.361	40.0 J	271	220 J	< 1.90	< 1.90
MW-1	3/26/2020	< 0.0896	< 0.412	< 0.158	< 0.316	< 0.102	< 0.00240	< 0.108	104 B	339	131 J	--	< 1.90
MW-1	6/3/2020	< 0.0941	< 0.278	< 0.137	< 0.174	< 0.101	< 0.00536	< 0.0819	160	--	--	--	< 2.95
MW-1	8/6/2020	0.133 J	< 0.278	< 0.137	< 0.174	< 0.101	< 0.00536	< 0.0819	186 B	261	101 J	--	< 2.95
MW-1	3/8/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	< 1.0	< 250	410	360	< 10	< 10
MW-1	6/9/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 250	510	< 350	< 2.0	< 2.0
MW-1	3/8/2022	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	100	1,700	930	< 2.0	< 2.0
MW-1	6/22/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	630	< 250	< 0.50	< 0.50
MW-1	2/6/2024	< 1.0	< 1.0	< 1.0	< 2.0	--	--	--	< 100	610	620	< 2.0	< 2.0
MW-2	5/11/1993	2,500	48	100	240	--	--	--	17,000	--	--	--	--
MW-2	3/4/1994	1,500	20	130	180	--	--	--	4,300	1,300	--	< 3.0	5.0
MW-2	7/6/1994	1,100	16	53	97	--	--	--	4,400	390	--	--	--
MW-2	10/7/1994	1,100	18	57	82	--	--	--	4,400	--	--	--	--

Table 2
Groundwater Analytical Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

CONSTITUENT		B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Dissolved Lead	Total Lead
UNIT		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		5	1000	700	1000	20	0.01	5	800	500	500	15	15
MW-2	12/28/1994	250	5.0	13	14	--	--	--	2,100	--	--	--	--
MW-2	3/13/1995	200	12	29	50	--	--	--	2,700	--	--	--	--
MW-2	6/30/1995	400	8.0	50	39	--	--	--	3,400	--	--	--	--
MW-2	9/6/1995	350	8.0	50	35	--	--	--	3,400	--	--	--	--
MW-2	12/8/1995	610	5.0	29	36	--	--	--	3,100	--	--	--	--
MW-2	3/11/1996	280	12	100	120	--	--	--	5,400	--	--	--	--
MW-2	6/18/1996	280	12	130	56	--	--	--	4,500	--	--	--	--
MW-2	9/9/1996	790	5.0	78	35	< 1.0	--	--	4,100	--	--	--	--
MW-2	12/11/1996	460	13	65	41	43	--	--	3,700	--	--	--	--
MW-2	3/13/1997	140	12	130	48	< 50	--	--	3,200	--	--	--	--
MW-2	6/5/1997	160	22	180	79	< 100	--	--	3,400	--	--	--	--
MW-2	4/2/1998	170	51	35	210	< 50	--	--	4,700	--	--	--	--
MW-2	6/8/1998	420	26	150	75	140	--	--	3,800	--	--	--	--
MW-2	9/17/1998	720	15	79	44	< 5.0	--	--	2,900	--	--	--	--
MW-2	12/9/1998	520	8.0	100	62	< 5.0	--	--	4,500	--	--	--	--
MW-2	3/17/1999	19	27	300	230	< 5.0	--	--	5,000	--	--	--	--
MW-2	6/26/1999	400	29	160	130	13	--	--	3,400	--	--	--	--
MW-2	9/28/1999	690	20	23	110	87	--	--	7,300	--	--	--	--
MW-2	1/19/2000	920	20	260	74	< 0.5	--	--	8,700	--	--	--	--
MW-2	3/24/2000	310	79	240	97	< 5	--	--	10,000	--	--	--	--
MW-2	7/2/2000	520	35	190	85	49	--	--	8,200	--	--	--	--
MW-2	9/14/2000	1,100	100	110	100	< 5	--	--	14,000	--	--	--	--
MW-2	12/14/2000	740	< 10	68	< 30	< 40	--	--	15,000	--	--	--	--
MW-2	9/22/2001	180	9.0	240	110	20	--	--	12,000	--	--	--	--
MW-2	12/9/2001	310	9.5	100	96	< 4.0	--	--	14,000	--	--	--	--
MW-2	3/20/2002	250	< 5.0	220	98	280	--	--	15,000	--	--	--	--
MW-2	6/11/2002	290	< 10	160	57	< 40	--	--	13,000	--	--	--	--
MW-2	12/21/2002	111	13.4	211	70.3	148	--	--	5,970	--	--	--	--
MW-2	3/19/2003	79.9	8.71	156	55	< 25.0	--	--	5,270	--	--	--	--
MW-2	6/18/2003	36.7	14.7	245	119	143	--	--	6,770	--	--	--	--
MW-2	9/23/2003	40.5	15.8	179	103	< 20.0	--	--	6,490	--	--	--	--
MW-2	10/21/2003	31.1	9.38	86	61	< 1.00	--	--	4,600	--	--	--	--
MW-2	6/29/2004	17.8	11.2	228	76.5	95.2	--	--	5,550	--	--	--	--
MW-2	11/15/2004	12.3	6.11	135	63.3	< 2.00	--	--	5,670	--	--	--	--
MW-2	4/14/2005	130	2.8	41.8	26.6	< 2.00	--	--	4,680	--	--	--	--
MW-2	12/18/2005	122	3.5	43.9	27.8	< 5.00	--	--	5,700	--	--	--	--
MW-2	6/11/2006	4.48	5.8	118	56.7	< 2.00	--	--	5,450	--	--	--	--
MW-2	11/5/2006	263	< 5.00	46.2	< 30.0	--	--	--	7,490	--	--	--	--
MW-2	9/25/2007	715	9.74	50.8	64	--	--	--	7,530	--	--	--	--
MW-2	12/31/2007	477	10.6	69.3	76.3	--	--	--	6,000	--	--	--	--
MW-2	5/29/2008	648	11.1	55.9	48.4	--	--	--	9,600	--	--	--	--
MW-2	10/28/2008	1,430	16	194	145	--	--	--	10,300	--	--	--	--
MW-2	6/22/2009	1,200	40	100	130	--	--	--	4,800	--	--	< 2.00	< 2.00
MW-2	12/15/2009	1,600	8.2	66	82	--	--	--	4,300	--	--	< 2.00	< 2.00
MW-2	5/24/2010	320	7.7	69	84	--	--	--	4,200	--	--	--	--
MW-2	10/12/2010	1,890	14.8	54.8	39.7	15.5	--	--	3,590	--	--	--	< 10.0

Table 2
Groundwater Analytical Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

CONSTITUENT		B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Dissolved Lead	Total Lead
UNIT		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		5	1000	700	1000	20	0.01	5	800	500	500	15	15
MW-2	5/10/2011	281	4.2	69.9	49.9	7.3	--	--	5,520	1,000	2,000	--	< 10.0
MW-2	11/29/2011	549	7.0	82.6	61.6	--	--	--	5,640	98	< 380	--	< 10.0
MW-2	6/1/2012	107	12.7	64.2	46.1	5.0	--	--	2,940	2,240	3,080	< 10.0	10.0
MW-2	11/29/2012	399	10.2	187	154	14.7	--	--	10,400	2,100	760	3.2	7.7
MW-2	5/9/2013	42.9	6.2	115	35.4	< 5.0	--	--	3,660	1,700	< 400	< 10.0	12.3
MW-2	11/19/2013	7.3	4.4 J	17	40	6.3	--	--	1,400	280	100 J	3.2	9.8
MW-2	5/13/2014	79	3.3 J	58	20	6.0	--	--	3,100	1,800	880	< 4.7	6.6 J
MW-2	5/7/2015	33	6.1	91	32	2.4	--	--	2,700	1,900	690	< 4.7	34.1
MW-2	3/2/2016	54	5.3 J	94	26	< 5.0	--	--	5,100	1,600	< 100	--	--
MW-2	6/6/2016	43	4.9	92	21	1.1 J	--	--	5,000	880	790	--	--
MW-2	9/12/2016	130	6.5	83	20	2.2	--	--	5,000	710	660	--	--
MW-2	12/12/2016	4.1	0.74 J	12	10	< 0.50	--	--	1,000	590	< 110	--	--
MW-2	2/22/2017	< 0.331	< 0.412	2.06	2.08 J	< 0.367	--	--	1,310	1,370	321 J	--	--
MW-2	8/29/2017	27.4	10.7	90.9	29.4	< 0.367	--	--	10,000	1,070	242 J	--	--
MW-2	3/13/2018	7.65	11.5	90.0	14.6	< 1.00	--	--	3,110	2,360	742	--	--
MW-2	10/25/2018	< 1.00	< 1.00	< 1.00	< 3.00	< 1.00	< 0.0100	< 1.00	171 B	788	444	0.623 J	25.5
MW-2	2/20/2019	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	< 0.00240	< 0.361	85.8 BJ	199 J	175 J	< 1.90	< 1.90
MW-2	5/14/2019	1.45	< 0.412	< 0.384	< 1.06	< 0.367	< 0.00240	< 0.361	40.0 J	250	197 J	--	< 1.90
MW-2	11/26/2019	0.883 J	< 0.412	< 0.384	< 1.06	< 0.367	< 0.00240	< 0.361	256 B	414	706	< 1.90	79.2
MW-2	3/26/2020	1.39	< 0.412	< 0.158	< 0.316	< 0.102	< 0.00240	< 0.108	134 B	2,400	456	--	8.84
MW-2	6/3/2020	0.307 J	< 0.278	0.337 J	1.52 J	< 0.101	< 0.00536	< 0.0819	3,320	--	--	--	8.7
MW-2	8/7/2020	0.910 J	349 J	0.452 J	1.36 J	< 0.101	< 0.00536	< 0.0819	377 B	4,300	431	--	< 2.95
MW-2	12/10/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	--	--	590	190	< 350	< 4.0	< 4.0
MW-2	12/10/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	--	--	590	190	< 350	< 4.0	< 4.0
MW-2	3/8/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	< 1.0	< 250	300	< 370	< 10	< 10
MW-2	6/9/2021	1.3	< 1.0	< 1.0	< 2.0	< 1.0	--	--	410	1,200	< 350	< 2.0	< 2.0
MW-2	12/7/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 250	220	420	< 2.0	< 2.0
MW-2	3/8/2022	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 50	140	< 380	< 2.0	< 2.0
MW-2	6/22/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	< 100	< 260	< 0.50	< 0.50
MW-2	9/22/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	230	< 260	< 0.50	1.4
MW-2	11/29/2022	< 1.0	< 1.0	< 1.0	< 1.0 F1	< 1.0	--	--	< 250	120	< 360	< 2.0	< 2.0
MW-2	2/27/2023	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 50	< 120	< 370	< 2.0	< 2.0
MW-3	6/7/1993	140	7.0	13	14	--	--	--	2,200	--	--	--	--
MW-3	3/4/1994	99	2.0	11	10	--	--	--	1,200	590	--	< 3.0	4.0
MW-3	7/6/1994	44	6.0	26	27	--	--	--	1,500	270	--	--	--
MW-3	10/7/1994	63	4.0	16	13	--	--	--	1,500	--	--	--	--
MW-3	12/28/1994	77	3.0	13	9	--	--	--	1,800	--	--	--	--
MW-3	3/13/1995	87	4.0	18	10	--	--	--	1,700	--	--	--	--
MW-3	6/30/1995	90	3.0	52	13	--	--	--	1,800	--	--	--	--
MW-3	9/6/1995	96	3.0	41	14	--	--	--	1,700	--	--	--	--
MW-3	12/8/1995	73	4.0	23	15	--	--	--	1,800	--	--	--	--
MW-3	3/11/1996	120	11	170	36	--	--	--	2,800	--	--	--	--
MW-3	6/18/1996	150	18	320	59	--	--	--	3,500	--	--	--	--
MW-3	9/9/1996	62	16	220	96	15	--	--	3,500	--	--	--	--
MW-3	12/11/1996	96	9.0	< 0.5	34	< 10	--	--	2,100	--	--	--	--

Table 2
Groundwater Analytical Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

CONSTITUENT		B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Dissolved Lead	Total Lead
UNIT		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		5	1000	700	1000	20	0.01	5	800	500	500	15	15
MW-3	3/13/1997	97	13	250	65	< 50	--	--	3,100	--	--	--	--
MW-3	6/5/1997	46	19	250	130	< 100	--	--	3,900	--	--	--	--
MW-3	9/5/1997	98	29	270	140	< 5	--	--	4,400	--	--	--	--
MW-3	4/2/1998	80	25	320	150	< 50	--	--	3,700	--	--	--	--
MW-3	6/8/1998	60	22	240	96	< 50	--	--	3,500	--	--	--	--
MW-3	12/9/1998	63	9.0	170	59	< 5.0	--	--	3,200	--	--	--	--
MW-3	6/26/1999	72	16	270	52	56	--	--	3,100	--	--	--	--
MW-3	1/19/2000	72	29	430	110	< 0.5	--	--	5,700	--	--	--	--
MW-3	7/2/2000	35	18	230	64	7	--	--	3,300	--	--	--	--
MW-3	12/14/2000	40	< 10	210	< 30	< 40	--	--	5,500	--	--	--	--
MW-3	12/9/2001	42	4.1	77	22	< 4.0	--	--	4,200	--	--	--	--
MW-3	6/11/2002	77	< 5.0	320	54	< 20	--	--	8,400	--	--	--	--
MW-3	12/21/2002	37.7	3.31	68.6	18.3	39.3	--	--	3,440	--	--	--	--
MW-3	6/18/2003	39.1	4.22	113	30.3	62.6	--	--	4,020	--	--	--	--
MW-3	10/21/2003	19.8	2.92	31.2	16.3	< 1.00	--	--	3,190	--	--	--	--
MW-3	11/15/2004	15.8	2.36	20.9	11.1	2.36	--	--	3,170	--	--	--	--
MW-3	4/14/2005	17.1	5.21	14.3	11.2	< 2.00	--	--	3,340	--	--	--	--
MW-3	12/18/2005	15.1	2.92	20.7	15.1	< 1.00	--	--	4,150	--	--	--	--
MW-3	6/11/2006	20.9	3.6	30	21.3	1.11	--	--	4,000	--	--	--	--
MW-3	11/5/2006	16.8	2.85	19	16.6	--	--	--	4,970	--	--	--	--
MW-3	9/25/2007	18.2	2.34	17.1	13.8	--	--	--	4,530	--	--	--	--
MW-3	12/31/2007	16.5	2.38	32.7	16.1	--	--	--	4,490	--	--	--	--
MW-3	5/29/2008	16.5	1.83	14.4	15	--	--	--	5,350	--	--	--	--
MW-3	10/28/2008	14.4	1.86	13.8	10.3	--	--	--	3,250	--	--	--	--
MW-3	6/22/2009	15	1.7	35	7.3	--	--	--	2,000	--	--	< 2.00	< 2.00
MW-3	12/15/2009	13	1.5	28	7.3	--	--	--	2,100	--	--	< 2.00	7.7
MW-3	5/24/2010	29	6.2	28	19	--	--	--	2,300	--	--	--	--
MW-3	10/12/2010	31.1	< 1.0	16.6	4.7	< 1.0	--	--	2,380	--	--	--	< 10.0
MW-3	5/10/2011	33.6	1.2	57.5	7.9	2.4	--	--	3,280	820	840	--	< 10.0
MW-3	11/29/2011	30.4	< 1.0	21.0	6.9	--	--	--	3,130	< 76	< 380	--	< 10.0
MW-3	6/1/2012	29.0	< 1.0	35.9	7.6	2.6	--	--	2,360	512	446	< 10.0	< 10.0
MW-3	11/29/2012	3.2	1.9	40.7	10.6	1.8	--	--	2,320	670	500	< 3.0	4.1
MW-3	5/9/2013	32.8	4.2	98.3	13.9	2.7	--	--	2,850	610	< 420	< 10.0	< 10.0
MW-3	11/19/2013	3.5 J	< 0.70	3.4 J	1.3 J	0.68 J	--	--	380	620	340	0.47 J	3.2
MW-3	5/13/2014	8.4	0.94 J	17	3.7	1.1	--	--	1,100	710	700	< 4.7	< 4.7
MW-3	5/7/2015	9.9	< 0.50	10	2.1	1.2	--	--	1,800	430	440	< 4.7	< 4.7
MW-3	3/2/2016	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	--	--	< 50	< 48	150 J	--	--
MW-3	6/6/2016	1.4	< 0.50	0.78 J	< 0.50	< 0.50	--	--	500	110	180 J	--	--
MW-3	9/12/2016	4.3	< 0.50	2.1	< 0.50	< 0.50	--	--	1,200	100	< 67	--	--
MW-3	12/12/2016	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	--	--	53 J	210	140 J	--	--
MW-3	2/22/2017	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	--	--	245	254	< 165	--	--
MW-3	8/29/2017	3.87	0.434 J	3.82	1.78 J	< 0.367	--	--	1,310	383	238 J	--	--
MW-3	3/13/2018	< 1.00	< 1.00	< 1.00	< 3.00	< 1.00	--	--	52.8 B J	79.1 J	115 J	--	--
MW-3	10/25/2018	< 1.00	< 1.00	< 1.00	< 3.00	< 1.00	< 0.0100	< 1.00	35.6 B J	69.3 J	< 250	0.602 J	0.868 B J
MW-3	5/14/2019	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	< 0.00240	< 0.361	< 31.6	71.9 J	101 J	--	< 1.90
MW-3	11/25/2019	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	< 0.00245	< 0.361	63.6 BJ	< 66.7	276	--	2.06 J

Table 2
Groundwater Analytical Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

CONSTITUENT		B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Dissolved Lead	Total Lead
UNIT		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		5	1000	700	1000	20	0.01	5	800	500	500	15	15
MW-3	3/26/2020	< 0.0896	< 0.412	< 0.158	< 0.316	< 0.102	< 0.00240	< 0.108	< 31.6	101 J	94.3 J	--	< 1.90
MW-3	8/7/2020	< 0.0941	< 0.278	< 0.137	1.44 J	< 0.101	< 0.00536	< 0.0819	66.5 BJ	109 J	101 J	--	< 2.95
MW-3	12/10/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	--	--	< 250	< 110	< 350	< 4.0	< 4.0
MW-3	12/10/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	--	--	< 250	< 110	< 350	< 4.0	< 4.0
MW-3	3/8/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	< 1.0	< 250	120	< 360	< 10	< 10
MW-3	6/9/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 250	120	< 350	< 2.0	< 2.0
MW-3	9/13/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 250	140	< 350	< 2.0	< 2.0
MW-3	12/7/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 250	110	< 360	< 2.0	< 2.0
MW-3	3/8/2022	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 50	< 110	< 360	< 2.0	< 2.0
MW-3	6/22/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	< 100	< 250	< 0.50	< 0.50
MW-3	9/22/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	< 100	< 260	< 0.50	0.55
MW-3	11/29/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	< 110	< 350	< 2.0	< 2.0
MW-3	2/27/2023	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 50	130	< 370	< 2.0	< 2.0
MW-4	5/11/1993	8,700	4,000	57	3,200	--	--	--	31,000	--	--	--	--
MW-4	3/17/1999	12,000	17,000	1,800	10,000	< 50	--	--	100,000	--	--	--	--
MW-4	9/28/1999	27,000	65,000	18,000	100,000	< 1000	--	--	97,000	--	--	--	--
MW-4	1/19/2000	22,000	18,000	2,400	15,000	< 5.0	--	--	100,000	--	--	--	--
MW-4	3/24/2000	13,000	18,000	2,200	13,000	< 5.0	--	--	100,000	--	--	--	--
MW-4	7/2/2000	13,000	17,000	1,800	10,000	220	--	--	92,000	--	--	--	--
MW-4	9/14/2000	22,000	27,000	6,900	23,000	< 5.0	--	--	160,000	--	--	--	--
MW-4	12/9/2001	12,000	10,000	1,900	8,800	< 40	--	--	110,000	--	--	--	--
MW-4	3/20/2002	13,000	19,000	2,500	13,000	360	--	--	100,000	--	--	--	--
MW-4	6/11/2002	13,000	17,000	2,300	12,000	< 400	--	--	95,000	--	--	--	--
MW-4	9/23/2003	7,140	8,980	1,270	8,820	< 50.0	--	--	75,900	--	--	--	--
MW-4	10/21/2003	3,190	6,370	779	6,160	< 500	--	--	44,700	--	--	--	--
MW-4	6/29/2004	11,200	16,300	3,550	22,600	2,500	--	--	378,000	--	--	--	--
MW-4	12/18/2005	9,430	12,800	2,000	13,500	< 100	--	--	214,000	--	--	--	--
MW-4	6/11/2006	13,000	18,200	2,300	14,000	< 1000	--	--	117,000	--	--	--	--
MW-4	11/5/2006	6,950	10,500	2,070	13,500	--	--	--	120,000	--	--	--	--
MW-4	12/12/2016	120	37	57	1,000	< 2.5	--	--	25,000	2,100	380	--	--
MW-4	3/26/2020	162	209	130	1,670	< 5.10	< 0.00240	< 5.40	17,400	11,200	439	53.5	204
MW-4	3/8/2021	80	530	330	3,300	< 1.0	--	< 1.0	23,000	7,700	1,600	24	74
MW-4	6/9/2021	85	120	130	1,800	< 1.0	--	--	15,000	13,000	2,000	29	82
MW-4	12/7/2021	61	73	130	2,300 H	< 1.0	--	--	19,000	11,000	1,900	110	220
MW-4	3/8/2022	1.6	< 1.0	6.3	61	< 1.0	--	--	1,000	760	630	46	74
MW-4	6/22/2022	15	10	45	340	< 1.0	--	--	6,800	7,000	< 260	48	110
MW-4	12/12/2022	< 10	11	66	830	< 10	--	--	5,800	2,500/2300 H*1	750/780 H*1	41	67
MW-4	2/27/2023	< 10	< 10	< 10	< 20	< 10	--	--	< 500	--	--	< 2.0	1,200
MW-4_PDB	2/27/2023	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 50	240	< 380	--	--
MW-4_PDB	5/25/2023	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 50	--	--	--	--
MW-4	12/11/2023	< 1.0	< 1.0	< 1.0	< 2.0	--	--	--	< 100	110	< 350	< 2.0	< 2.0
MW-4_PDB	12/11/2023	< 1.0	< 1.0	< 1.0	< 2.0	--	--	--	< 100	< 180	< 580	--	--
MW-4	2/6/2024	< 1.0	< 1.0	< 1.0	< 2.0	--	--	--	< 100	1,600	590	< 2.0	7.9
MW-4_PDB	2/6/2024	< 1.0	< 1.0	< 1.0	< 2.0	--	--	--	< 100	120	< 390	< 2.0	< 2.0

Table 2
Groundwater Analytical Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

CONSTITUENT		B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Dissolved Lead	Total Lead
UNIT		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		5	1000	700	1000	20	0.01	5	800	500	500	15	15
MW-5	5/11/1993	130	25	23	22	--	--	--	1,800	--	--	--	--
MW-5	3/4/1994	26	6.0	11	8.0	--	--	--	710	420	--	< 3	27
MW-5	7/6/1994	11	3.0	1.0	4.0	--	--	--	400	< 250	--	--	--
MW-5	10/7/1994	13	4.0	2.0	4.0	--	--	--	510	--	--	--	--
MW-5	12/28/1994	46	13	20	22	--	--	--	1,300	--	--	--	--
MW-5	3/13/1995	34	8.0	40	28	--	--	--	2,800	--	--	--	--
MW-5	6/30/1995	50	11	12	15	--	--	--	1,100	--	--	--	--
MW-5	9/6/1995	42	14	30	18	--	--	--	1,100	--	--	--	--
MW-5	12/8/1995	32	7.0	42	62	--	--	--	1,700	--	--	--	--
MW-5	3/11/1996	85	9.0	210	140	--	--	--	8,100	--	--	--	--
MW-5	6/18/1996	100	17	88	25	--	--	--	2,700	--	--	--	--
MW-5	9/9/1996	180	29	100	27	< 1.0	--	--	2,200	--	--	--	--
MW-5	12/11/1996	110	18	96	250	12	--	--	4,900	--	--	--	--
MW-5	3/13/1997	190	35	190	73	< 50	--	--	5,500	--	--	--	--
MW-5	6/5/1997	290	42	200	37	< 100	--	--	4,100	--	--	--	--
MW-5	9/5/1997	420	83	190	730	< 50	--	--	3,100	--	--	--	--
MW-5	4/2/1998	470	89	340	83	< 50	--	--	5,400	--	--	--	--
MW-5	6/8/1998	360	110	220	66	71	--	--	4,200	--	--	--	--
MW-5	12/9/1998	170	41	120	120	< 1.0	--	--	4,900	--	--	--	--
MW-5	6/26/1999	180	82	210	24	8	--	--	3,300	--	--	--	--
MW-5	1/19/2000	480	350	370	87	< 0.5	--	--	6,500	--	--	--	--
MW-5	7/2/2000	390	110	290	54	20	--	--	6,100	--	--	--	--
MW-5	12/14/2000	26	< 10	< 10	< 30	< 40	--	--	4,000	--	--	--	--
MW-5	12/9/2001	51	< 10	120	140	< 10	--	--	12,000	--	--	--	--
MW-5	6/11/2002	94	21	110	24	< 20	--	--	5,700	--	--	--	--
MW-5	12/21/2002	6.32	2.95	6.59	11.1	5.88	--	--	1,300	--	--	--	--
MW-5	6/18/2003	7.18	1.95	12	24.7	6	--	--	1,950	--	--	--	--
MW-5	10/21/2003	1.18	2.19	0.732	3.38	< 1.00	--	--	322	--	--	--	--
MW-5	6/29/2004	5.4	3.24	4.79	14.1	6.95	--	--	1,180	--	--	--	--
MW-5	11/15/2004	0.74	< 0.500	< 0.500	< 1.00	< 2.00	--	--	399	--	--	--	--
MW-5	4/14/2005	14.3	13.4	33.9	40	< 2.00	--	--	2,900	--	--	--	--
MW-5	12/18/2005	2.49	2.43	3.58	5.11	< 1.00	--	--	661	--	--	--	--
MW-5	6/11/2006	6.08	1.05	2.78	3.1	< 1.00	--	--	2,830	--	--	--	--
MW-5	11/5/2006	1.41	0.78	1.29	< 3.00	--	--	--	723	--	--	--	--
MW-5	9/25/2007	1.86	0.53	0.77	< 3.00	--	--	--	712	--	--	--	--
MW-5	12/31/2007	9.4	11.3	38.1	75.7	--	--	--	7,190	--	--	--	--
MW-5	5/29/2008	7.47	9.12	15.7	23.7	--	--	--	2,740	--	--	--	--
MW-5	10/28/2008	2.01	1.46	< 0.500	3.48	--	--	--	516	--	--	--	--
MW-5	6/22/2009	36	24	87	49.9	--	--	--	4,800	--	--	--	23
MW-5	12/15/2009	24	19	29	23	--	--	--	2,300	--	--	11	12
MW-5	5/24/2010	59	8.4	96	41	--	--	--	4,200	--	--	--	--
MW-5	10/12/2010	31.4	2.6	12.7	4.8	< 1.0	--	--	2,320	--	--	--	< 10.0
MW-5	5/10/2011	12.4	4.1	39.3	25.5	< 1.0	--	--	4,710	470	< 400	--	< 10.0
MW-5	11/29/2011	12.3	2.2	6.4	3.1	--	--	--	2,210	95	< 380	--	10.5
MW-5	6/1/2012	13.3	3.0	9.6	10.7	< 1.0	--	--	1,620	1,040	< 392	< 10.0	< 10.0
MW-5	11/29/2012	18.0	8.0	61.7	28.2	< 1.0	--	--	4,160	1,100	< 440	< 3.0	42.5

Table 2
Groundwater Analytical Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

CONSTITUENT UNIT		B ug/L	T ug/L	E ug/L	X ug/L	MTBE ug/L	EDB ug/L	EDC ug/L	TPH-G ug/L	TPH-D ug/L	TPH-O ug/L	Dissolved Lead ug/L	Total Lead ug/L
MTCA METHOD A CLEANUP LEVELS		5	1000	700	1000	20	0.01	5	800	500	500	15	15
MW-5	5/9/2013	19.0	6.7	48.3	18.5	< 1.0	--	--	3,470	< 400	< 400	< 10.0	< 10.0
MW-5	11/19/2013	24	5.7	17	6.3	< 0.50	--	--	1,800	240	660	1.3	6.7
MW-5	5/13/2014	17	7.5	69	23	< 0.50	--	--	4,400	440	370	9.2 J	16.2
MW-5	5/7/2015	11	4.8	32	12	< 0.50	--	--	2,800	240	260	5.2 J	18.4
MW-5	3/2/2016	4.5	2.8	24	13	< 0.50	--	--	4,100	320	530	--	--
MW-5	6/6/2016	6.9	4.4	23	15	< 0.50	--	--	5,300	310	620	--	--
MW-5	12/12/2016	1.7	1.8	9.0	4.5	< 0.50	--	--	4,300	17,000	< 540	--	--
MW-5	2/22/2017	0.572 J	< 0.412	1.39	1.10 J	< 0.367	--	--	3,440	9,890	204 J	--	--
MW-5	8/29/2017	7.48	1.60	6.01	11.1	< 0.367	--	--	1,810	7,040	432	--	--
MW-5	3/13/2018	< 1.00	< 1.00	0.544 J	< 3.00	< 1.00	--	--	356 B	1,440	216 J	--	--
MW-5	5/14/2019	0.403 J	< 0.412	< 0.384	5.45	< 0.367	< 0.00240	< 0.361	54.5 J	1,120	122 J	--	--
MW-5	3/25/2020	< 0.0896	< 0.412	< 0.158	< 0.316	< 0.102	< 0.00240	< 0.108	< 31.6	300	108 J	3.84 J	21.2
MW-5	3/8/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	< 1.0	< 250	170	< 360	< 10	< 10
MW-5	3/8/2022	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 50	270	< 360	< 2.0	6.8
MW-5	12/12/2022	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 50	--	--	--	--
MW-6	9/5/1997	< 0.5	19	6.0	15	32	--	--	930	--	--	--	--
MW-6	4/2/1998	< 0.5	10	3.0	11	6.0	--	--	600	--	--	--	--
MW-6	6/8/1998	< 0.5	6.0	2.0	5.0	10	--	--	430	--	--	--	--
MW-6	12/9/1998	< 1.0	< 1.0	1.0	3.0	2.0	--	--	260	--	--	--	--
MW-6	1/19/2000	< 0.5	< 0.5	6.0	10	7.0	--	--	330	--	--	--	--
MW-6	12/14/2000	< 10	< 10	< 10	< 30	< 40	--	--	1,000	--	--	--	--
MW-6	10/21/2003	10	3.66	0.898	5.03	< 1.00	--	--	254	--	--	--	--
MW-6	6/29/2004	6.8	1.73	< 0.500	5.65	6.35	--	--	540	--	--	--	--
MW-6	11/15/2004	43.5	14.5	0.58	10.4	< 2.00	--	--	370	--	--	--	--
MW-6	4/14/2005	6.39	0.95	< 0.500	3.75	< 2.00	--	--	443	--	--	--	--
MW-6	12/18/2005	< 0.500	< 0.500	< 0.500	3.01	< 1.00	--	--	694	--	--	--	--
MW-6	6/11/2006	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	--	--	601	--	--	--	--
MW-6	11/5/2006	< 0.500	< 0.500	< 0.500	< 3.00	--	--	--	444	--	--	--	--
MW-6	9/25/2007	< 0.500	< 0.500	< 0.500	< 3.00	--	--	--	321	--	--	--	--
MW-6	12/31/2007	< 0.500	< 0.500	< 0.500	< 3.00	--	--	--	168	--	--	--	--
MW-6	5/29/2008	< 0.500	< 0.500	< 0.500	< 3.00	--	--	--	1,620	--	--	--	--
MW-6	10/28/2008	< 0.500	< 0.500	< 0.500	< 3.00	--	--	--	481	--	--	--	--
MW-6	6/22/2009	< 1.00	< 1.00	< 1.00	< 3.00	--	--	--	< 50.0	--	--	< 2.00	< 2.00
MW-6	12/15/2009	< 1.00	< 1.00	< 1.00	< 2.00	--	--	--	190	--	--	< 2.00	< 2.00
MW-6	5/24/2010	8.1	< 2.5	< 2.5	< 5.0	--	--	--	280	--	--	--	--
MW-6	10/12/2010	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	--	--	< 50.0	--	--	--	< 10.0
MW-6	5/10/2011	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	--	--	96.0	180	< 390	--	< 10.0
MW-6	11/29/2011	< 1.0	< 1.0	< 1.0	< 3.0	--	--	--	< 50.0	< 78	< 390	--	< 10.0
MW-6	6/1/2012	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	--	--	124	< 76.9	< 385	< 10.0	< 10.0
MW-6	5/9/2013	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	--	--	216	< 400	< 400	< 10.0	< 10.0
MW-6	11/19/2013	< 0.50	< 0.70	< 0.80	< 0.80	< 0.50	--	--	130 J	31 J	< 71	0.12 J	0.97 J
MW-6	5/13/2014	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	--	--	120 J	80 J	180 J	< 4.7	< 4.7
MW-6	5/7/2015	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	--	--	< 50	< 28	< 65	< 4.7	< 4.7
MW-6	6/6/2016	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	--	--	< 50	< 46	< 100	--	--
MW-6	9/12/2016	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	--	--	< 50	140	280	--	--

Table 2
Groundwater Analytical Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

CONSTITUENT		B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Dissolved Lead	Total Lead
UNIT		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		5	1000	700	1000	20	0.01	5	800	500	500	15	15
MW-6	12/12/2016	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	--	--	< 50	< 47	< 100	--	--
MW-6	2/22/2017	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	--	--	33.5 J	< 82.5	< 165	--	--
MW-6	8/29/2017	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	--	--	160	< 139	183 J	--	--
MW-6	3/13/2018	< 1.00	< 1.00	< 1.00	< 3.00	< 1.00	--	--	40.0 B J	< 200	< 250	--	--
MW-6	10/25/2018	< 1.00	< 1.00	< 1.00	< 3.00	< 1.00	< 0.0100	< 1.00	< 100	73.4 J	< 250	< 2.00	< 2.00
MW-6	2/22/2019	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	< 0.00240	< 0.361	< 31.6	76.5 J	214 J	< 1.90	< 1.90
MW-6	8/27/2019	< 0.0896	< 0.412	< 0.158	< 1.06	< 0.367	< 0.00245	< 1.00	< 31.6	79.6 J	85.9 J	--	3.18 J
MW-6	3/26/2020	< 0.0896	< 0.412	< 0.158	< 0.316	< 0.102	< 0.00240	< 0.108	< 31.6	73.9 J	152 J	--	< 1.90
MW-6	6/2/2020	< 0.0941	< 0.278	< 0.137	< 0.174	< 0.101	< 0.00536	< 0.0819	< 31.6	--	--	--	< 2.95
MW-6	12/10/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	--	--	< 250	< 110	< 350	< 4.0	< 4.0
MW-6	12/10/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	--	--	< 250	< 110	< 350	< 4.0	< 4.0
MW-6	3/8/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	< 1.0	< 250	< 110	< 360	< 10	< 10
MW-6	6/9/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 250	--	--	--	--
MW-6	9/13/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 250	< 110	< 350	< 2.0	< 2.0
MW-6	12/7/2021	< 1.0	< 1.0	< 1.0	3.5	< 1.0	--	--	< 250	< 110	< 350	< 2.0	< 2.0
MW-6	3/8/2022	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 50	250	400	< 2.0	< 2.0
MW-6	6/22/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	< 100	< 260	< 0.50	< 0.50
MW-6	9/22/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	< 110	< 270	< 0.50	< 5.0
MW-6	11/29/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	< 110	< 350	< 2.0	< 2.0
MW-6	2/27/2023	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 50	< 120	< 370	< 2.0	< 2.0
MW-7	4/2/1998	< 5	35	480	1,100	< 50	--	--	13,100	--	--	--	--
MW-7	6/8/1998	< 5.0	40	420	810	63	--	--	12,000	--	--	--	--
MW-7	12/9/1998	< 5.0	26	360	610	11	--	--	9,600	--	--	--	--
MW-7	6/26/1999	11	24	410	600	< 5.0	--	--	8,300	--	--	--	--
MW-8	4/2/1998	< 0.5	1.0	< 0.5	< 1.5	< 5	--	--	< 100	--	--	--	--
MW-8	6/8/1998	< 0.5	1.0	2.0	< 1.5	< 5.0	--	--	< 100	--	--	--	--
MW-8	12/9/1998	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	< 500	--	--	--	--
MW-8	6/26/1999	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	< 500	--	--	--	--
MW-9	10/12/2010	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	--	--	< 50.0	--	--	--	< 10.0
MW-9	5/10/2011	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	--	--	< 50.0	160	< 420	--	< 10.0
MW-9	11/29/2011	< 1.0	< 1.0	< 1.0	< 3.0	--	--	--	< 50.0	< 76	< 380	--	< 10.0
MW-9	5/9/2013	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	--	--	< 100	< 400	< 400	< 10.0	< 10.0
MW-9	11/19/2013	< 0.50	< 0.70	< 0.80	< 0.80	< 0.50	--	--	< 50	49 J	< 75	0.090 J	1.0
MW-9	5/13/2014	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	--	--	< 50	< 29	< 67	< 4.7	< 4.7
MW-9	5/7/2015	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	--	--	< 50	28 J	< 65	< 4.7	< 4.7
MW-9	9/12/2016	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	--	--	< 50	190	170 J	--	--
MW-9	8/29/2017	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	--	--	52.9 J	115 J	101 J	--	--
MW-9	10/25/2018	< 1.00	< 1.00	< 1.00	< 3.00	< 1.00	< 0.0101	< 1.00	78.3 BJ	217	140 J	< 2.00	0.299 B J
MW-9	2/20/2019	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	< 0.00240	< 0.361	36.7 BJ	116 J	120 J	< 1.90	< 1.90
MW-9	5/13/2019	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	< 0.00240	< 0.361	< 31.6	220	107 J	--	< 1.90
MW-9	8/27/2019	< 0.0896	< 0.412	< 0.158	< 0.316	< 0.102	< 0.00240	< 0.108	< 31.6	107 J	98.9 J	--	< 1.90
MW-9	11/26/2019	< 0.0896	< 0.412	< 0.158	< 0.316	< 0.102	< 0.00240	< 0.108	47 BJ	108 J	227 J	--	< 1.90
MW-9	3/26/2020	< 0.0896	< 0.412	< 0.158	< 0.316	< 0.102	< 0.00240	< 0.108	< 31.6	190 J	199 J	--	< 1.90

Table 2
Groundwater Analytical Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

CONSTITUENT		B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Dissolved Lead	Total Lead
UNIT		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		5	1000	700	1000	20	0.01	5	800	500	500	15	15
MW-9	6/2/2020	< 0.0941	< 0.278	< 0.137	< 0.174	< 0.101	< 0.00536	< 0.0819	< 31.6	--	--	--	< 2.95
MW-9	8/7/2020	< 0.0941	< 0.278	< 0.137	< 0.174	< 0.101	< 0.00536	< 0.0819	< 31.6	216	110 J	--	< 2.95
MW-9	12/10/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	--	--	< 250	< 110	< 350	< 4.0	< 4.0
MW-9	12/10/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	--	--	< 250	< 110	< 350	< 4.0	< 4.0
MW-9	3/8/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	< 1.0	< 250	< 120	< 370	< 10	< 10
MW-9	6/9/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 250	210	< 360	< 2.0	< 2.0
MW-9	9/13/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 250	170	< 360	< 2.0	< 2.0
MW-9	12/7/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 250	< 110	< 360	< 2.0	< 2.0
MW-9	9/22/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	< 100	< 250	< 0.50	< 0.50
MW-9	11/29/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	< 120	< 370	< 2.0	< 2.0
MW-10	6/1/2012	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	--	--	< 50.0	< 76.9	< 385	< 10.0	< 10.0
MW-10	11/29/2012	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	--	--	< 100	< 420	< 420	< 3.0	20.4
MW-10	5/9/2013	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	--	--	< 100	< 400	< 400	< 10.0	< 10.0
MW-10	11/19/2013	< 0.50	< 0.70	< 0.80	< 0.80	< 0.50	--	--	66 J	< 34	< 78	< 0.085	12.8
MW-10	5/13/2014	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	--	--	< 50	< 28	< 66	< 4.7	< 4.7
MW-10	5/7/2015	< 0.50	< 0.50	0.81 J	7.1	< 0.50	--	--	150 J	75 J	150 J	< 4.7	6.3 J
MW-10	9/12/2016	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	--	--	130 J	< 29	< 68	--	--
MW-10	8/29/2017	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	--	--	< 31.6	78.2 J	126 J	--	--
MW-11	10/25/2018	< 1.00	< 1.00	< 1.00	< 3.00	< 1.00	< 0.0100	< 1.00	170 B	343	419	0.582 J	1.09 B J
MW-11	2/20/2019	< 0.331	< 0.412	< 0.384	< 1.06	1.04	< 0.00240	< 0.361	132 B	354	466	< 1.90	< 1.90
MW-11	5/13/2019	< 0.331	< 0.412	< 0.384	< 1.06	0.674 J	< 0.00240	< 0.361	40.1 J	423	308	--	< 1.90
MW-11	8/27/2019	< 0.0896	< 0.412	< 0.158	< 0.316	0.818	< 0.00240	< 0.108	< 31.6	227	295	--	2.51 J
MW-11	11/25/2019	< 0.0896	< 0.412	< 0.158	< 0.316	0.771	< 0.00240	< 0.108	137 B	220	408	--	< 1.90
MW-11	3/25/2020	< 0.0896	< 0.412	< 0.158	< 0.316	< 0.102	< 0.00240	< 0.108	75.1 BJ	747	131 J	--	< 1.90
MW-11	6/2/2020	< 0.0941	< 0.278	< 0.137	< 0.174	0.229 J	< 0.00536	< 0.0819	91.5 J	--	--	--	3.23 J
MW-11	8/6/2020	< 0.0941	< 0.278	< 0.137	< 0.174	0.266 J	< 0.00536	< 0.0819	85.2 BJ	289	317	--	< 2.95
MW-11	12/10/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	--	--	< 250	< 110	< 350	< 4.0	< 4.0
MW-11	12/10/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	--	--	< 250	< 110	< 350	< 4.0	< 4.0
MW-11	3/8/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	< 1.0	< 250	840	< 370	< 10	< 10
MW-11	6/9/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 250	390	< 350	< 2.0	< 2.0
MW-11	9/13/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 250	370	390	< 2.0	< 2.0
MW-11	12/7/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 250	540	480	< 2.0	< 2.0
MW-11	9/22/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	290	< 270	< 0.50	< 0.50
MW-11	11/29/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	680	460	< 2.0	< 2.0
MW-11	2/27/2023	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 50	420	< 360	< 2.0	< 2.0
MW-11	5/25/2023	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 50	310	< 360	< 2.0	< 2.0
MW-11	8/9/2023	--	--	--	--	--	--	--	--	420	--	< 2.0	< 2.0
MW-11	12/11/2023	--	--	--	--	--	--	--	--	420	< 360	< 2.0	< 2.0
MW-12	10/25/2018	1.17	< 1.00	< 1.00	< 3.00	< 1.00	< 0.0100	< 1.00	867	705	189 J	< 2.00	1.00 B J
MW-12	2/20/2019	4.91	< 0.412	2.81	2.54 J	< 0.367	< 0.00240	< 0.361	3,370	486	206 J	< 1.90	< 1.90
MW-12	5/13/2019	3.79	< 0.412	0.457 J	< 1.06	< 0.367	< 0.00240	< 0.361	1,320	394	198 J	--	< 1.90
MW-12	8/27/2019	3.11	< 0.412	0.705	0.404 J	< 0.102	< 0.00245	< 0.108	260	404	192 J	--	< 1.90
MW-12	11/25/2019	2.79	< 0.412	1.06	0.464 J	< 0.102	< 0.00240	< 0.108	855	349	183 J	< 1.90	25.8

Table 2
Groundwater Analytical Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

CONSTITUENT		B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Dissolved Lead	Total Lead
UNIT		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		5	1000	700	1000	20	0.01	5	800	500	500	15	15
MW-12	3/26/2020	1.18	< 0.412	0.844	0.318 J	< 0.102	< 0.00240	< 0.108	300 B	1,710	281	--	< 1.90
MW-12	6/2/2020	0.872	< 0.278	2.35	0.526 J	< 0.101	< 0.00536	< 0.0819	917	--	--	--	< 2.95
MW-12	8/6/2020	0.644 J	< 0.278	0.500 J	0.448 J	< 0.101	< 0.00536	< 0.0819	268 J	1,630	317	--	< 2.95
MW-12	12/10/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	--	--	290	400	< 350	< 4.0	< 4.0
MW-12	12/10/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	--	--	290	400	< 350	< 4.0	< 4.0
MW-12	3/8/2021	< 1.0 F1F2	< 1.0 F1F2	18 F1	< 2.0 F1F2	< 1.0 F1F2	--	< 1.0 F1F2	1,600	2,500	< 360	< 10	< 10 F1
MW-12	6/9/2021	< 1.0	< 1.0	2.2	< 2.0	< 1.0	--	--	530	3,000	390	< 2.0	< 2.0
MW-12	9/13/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	430	2,700	370	< 2.0	< 2.0
MW-12	12/7/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	440	2,700	420	< 2.0	< 2.0
MW-12	9/22/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	950	440	< 240	< 0.50	< 0.50
MW-12	11/29/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	510	870	< 350	< 2.0	< 2.0
MW-12	2/27/2023	< 1.0	< 1.0	1.2	< 2.0	< 1.0	--	--	1,100	900	< 370	< 2.0	< 2.0
MW-12	5/25/2023	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	820	1,300	< 360	< 2.0	< 2.0
MW-12	8/9/2023	--	--	--	--	--	--	--	1,800	1,600	< 350	< 2.0	< 2.0
MW-12	12/11/2023	--	--	--	--	--	--	--	1,800	1,600	--	< 2.0	< 2.0
MW-12	2/6/2024	--	--	--	--	--	--	--	3,900	2,100	< 350	< 2.0	< 2.0
MW-13	2/6/2024	< 1.0	< 1.0	< 1.0	< 2.0	--	--	--	110	130	< 360	< 2.0	< 2.0
MW-14	2/6/2024	1.7	3.8	150	110	--	--	--	4,600	4,200	420	< 2.0	< 2.0
MW-15	2/6/2024	< 1.0	< 1.0	5.2	3.6	--	--	--	3,700	1,600	< 360	4.2	5.7
MW-16	2/6/2024	< 1.0	< 1.0	< 1.0	< 2.0	--	--	--	< 100	< 110	< 360	< 2.0	< 2.0
VE-1	4/2/1998	3,900	2,300	820	4,500	< 2500	--	--	60,500	--	--	--	--
VE-1	9/17/1998	2,700	2,000	1,400	7,700	< 100	--	--	240,000	--	--	--	--
VE-1	12/9/1998	2,200	1,400	770	3,700	< 25	--	--	73,000	--	--	--	--
VE-1	3/17/1999	4,000	2,400	790	4,100	< 25	--	--	42,000	--	--	--	--
VE-1	6/26/1999	3,800	2,600	670	3,500	< 100	--	--	42,000	--	--	--	--
VE-1	9/28/1999	3,400	2,000	630	3,000	< 25	--	--	25,000	--	--	--	--
VE-1	3/24/2000	3,200	610	27	3,600	< 5.0	--	--	31,000	--	--	--	--
VE-1	7/2/2000	3,200	1,900	620	3,000	130	--	--	27,000	--	--	--	--
VE-1	9/14/2000	3,200	2,200	920	3,000	< 5.0	--	--	29,000	--	--	--	--
VE-1	12/14/2000	2,400	1,300	580	2,600	< 40	--	--	28,000	--	--	--	--
VE-1	12/9/2001	1,300	880	510	2,400	< 40	--	--	24,000	--	--	--	--
VE-1	3/20/2002	1,800	1,300	560	2,400	280	--	--	52,000	--	--	--	--
VE-1	6/11/2002	2,800	1,600	650	2,900	< 80	--	--	26,000	--	--	--	--
VE-1	12/21/2002	1,630	1,150	741	3,660	< 200	--	--	25,900	--	--	--	--
VE-1	3/19/2003	1,590	1,450	743	3,640	< 250	--	--	27,100	--	--	--	--
VE-1	6/18/2003	2,190	1,710	929	5,230	79.8	--	--	37,000	--	--	--	--
VE-1	9/23/2003	1,620	1,270	704	3,500	< 20.0	--	--	28,300	--	--	--	--
VE-1	10/22/2003	3,360	1,850	847	4,130	< 50.0	--	--	36,700	--	--	--	--
VE-1	6/29/2004	8,070	7,030	2,230	10,400	820	--	--	192,000	--	--	--	--
VE-1	11/15/2004	5,680	6,280	3,430	17,600	< 100	--	--	99,900	--	--	--	--
VE-1	4/14/2005	3,120	3,300	1,210	5,560	< 40.0	--	--	39,600	--	--	--	--

Table 2
Groundwater Analytical Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

CONSTITUENT		B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Dissolved Lead	Total Lead
UNIT		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		5	1000	700	1000	20	0.01	5	800	500	500	15	15
VE-1	12/18/2005	6,140	5,850	1,400	6,750	< 100	--	--	142,000	--	--	--	--
VE-1	6/11/2006	7,200	8,100	3,900	25,100	< 500	--	--	68,300	--	--	--	--
VE-1	11/5/2006	3,780	4,320	1,190	6,390	--	--	--	60,500	--	--	--	--

Notes:

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes, Total

MTBE = Methyl-tertiary-butyl ether

TPH-G = Total petroleum hydrocarbons as gasoline by Northwest Method NWTPH-Gx

TPH-D = Total petroleum hydrocarbons as diesel by Northwest Method NWTPH-Dx

TPH-O = Total petroleum hydrocarbons as oil by Northwest Method NWTPH-Dx

EDB = Ethylene dibromide

EDC = 1,2-Dichloroethane

1,000/800¹ ug/L if no detectable levels of Benzene in the sample - otherwise 800 ug/L

<1.0 = Concentrations were not detected above the laboratory method reporting limit.

ug/L = Micrograms per liter (ppb)

-- = No value given/Not analyzed/Not applicable

MTCA = Model Toxics Control Act

Results in **bold** indicate concentrations in excess of MTCA Method A Cleanup Levels

J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value

B = The same analyte is found in the associated blank.

F1 = MS and/or MSD recovery exceeds control limits

F2 = MS/MSD RPD exceeds control limits

H = Sample was prepped or analyzed beyond the specified holding time

*1 = LCS/LCSD RPD exceeds control limits.

Regarding the sample collected from MW-4 on 12/12/2022: Method NWTPH-Dx: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 580-413921 and analytical batch 580-414023 recovered outside control limits for the following analytes: #2 Diesel (C10-C24) and Motor Oil (>C24-C36). The sample was re-prepared outside of preparation holding time due to low surrogate in the method blank MW4 _ 20221212 (580-121302-1). Both data sets are reported.

MW-5 12/12/2022 samples were not analyzed for TPH-D, TPH-O, Total Lead, or Dissolved Lead due to insufficient sample volume remaining in the well during time of collection.

MW-4_PDB = Sample collected from a Passive Diffusion Bag (PDB)

Table 3
Soil Analytical Data
Former ARCO Facility No. 11060
4580 FAUNTLEROY WAY SW, SEATTLE, WA 98126

CONSTITUENT UNIT			B mg/Kg	T mg/Kg	E mg/Kg	X (Total) mg/Kg	MTBE mg/Kg	TPH-G mg/Kg	TPH-D mg/Kg	TPH-O mg/Kg	Lead (Total) mg/Kg	Total cPAHs mg/Kg	Total Naphthalenes mg/Kg
MTCA METHOD A SOIL			0.03	7	6	9	0.1	30	2000	2000	250	0.1	5
Location ID	Sample Date	Sample Depth											
MW-3	3/23/1992	13	< 0.34	< 0.34	0.11	0.24	--	43	< 34	< 100	6.3	--	--
MW-3	3/23/1992	18.5	0.94	< 2.9	5.1	8.8	--	140	< 29	< 88	2.6	--	--
MW-1	5/6/1993	3	< 0.005	< 0.005	< 0.005	< 0.005	--	< 1.0	--	--	--	--	--
MW-2	5/7/1993	18	0.48	0.7	0.5	1.9	--	190	--	--	--	--	--
MW-4	5/7/1993	23	6.6	26	11	71	--	1,200	--	--	--	--	--
MW-5	5/7/1993	18	< 0.005	0.02	0.036	0.14	--	7	--	--	--	--	--
VE-1	4/26/1995	10	< 0.63	< 0.63	24	160	--	3,500	--	--	--	--	--
VE-1	4/26/1995	25	1.7	3.4	8.2	40	--	1,300	--	--	--	--	--
MW-6	6/1/1997	15	< 0.025	< 0.025	< 0.025	< 0.025	--	< 5.0	--	--	--	--	--
MW-6	6/1/1997	21	< 0.025	< 0.025	< 0.025	< 0.025	--	< 5.0	--	--	--	--	--
B-1	10/24/2002	4	< 0.020	< 0.05	0.88	3.0	--	210	--	--	--	--	--
B-2	10/24/2002	12	< 0.020	< 0.05	< 0.05	0.59	--	240	--	--	--	--	--
B-3	10/24/2002	15	< 0.020	< 0.05	< 0.05	< 0.05	--	< 5.0	--	--	--	--	--
GMW-1	12/21/2007	16	< 0.02	< 0.05	< 0.05	< 0.15	--	< 10	--	--	--	--	--
GMW-1	12/21/2007	21	< 0.02	< 0.05	< 0.05	< 0.15	--	10	--	--	--	--	--
GMW-1	12/21/2007	26	< 0.02	< 0.05	< 0.05	< 0.15	--	< 10	--	--	--	--	--
GMW-1	12/21/2007	36	< 0.02	< 0.05	< 0.05	< 0.15	--	< 10	--	--	--	--	--
MW-9	8/24/2010	13.5	< 0.0031	< 0.0031	< 0.0031	< 0.0094	--	< 6.2	< 19.8	< 79.2	1.9	--	--
MW-9	8/24/2010	21	< 0.0026	< 0.0026	< 0.0026	< 0.0078	--	< 5.2	< 20.5	< 81.9	1.4	--	--
MW-9	8/24/2010	35.5	< 0.0034	< 0.0034	< 0.0034	< 0.00101	--	< 6.2	< 21.5	< 85.9	1.7	--	--
MW-10	1/23/2012	15	< 0.0034	< 0.0034	< 0.0034	< 0.0103	< 0.0034	< 6.3	< 17.9	< 71.6	1.9	--	--
MW-10	1/23/2012	20	< 0.0044	< 0.0044	< 0.0044	< 0.0133	< 0.0044	< 6.7	< 19.3	< 77.1	2.4	--	--
MW-10	1/23/2012	25	< 0.0034	< 0.0034	< 0.0034	< 0.0103	< 0.0034	< 6.7	< 19.2	< 76.8	1.9	--	--
MW-10	1/23/2012	35	< 0.0030	< 0.0030	< 0.0030	< 0.0089	< 0.0030	< 6.1	< 19.0	< 75.8	2.7	--	--

Table 3
Soil Analytical Data
Former ARCO Facility No. 11060
4580 FAUNTLEROY WAY SW, SEATTLE, WA 98126

CONSTITUENT			B	T	E	X (Total)	MTBE	TPH-G	TPH-D	TPH-O	Lead (Total)	Total cPAHs	Total Naphthalenes
UNIT			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
MTCA METHOD A SOIL			0.03	7	6	9	0.1	30	2000	2000	250	0.1	5
SB-1	1/23/2012	15	0.0057	0.0092	0.488	0.135	< 0.0027	555	< 17.3	< 69.2	5.3	--	--
SB-1	1/23/2012	25	< 0.0031	< 0.0031	< 0.0031	< 0.0093	< 0.0031	< 6.4	< 19.3	< 77.1	1.6	--	--
SB-1	1/23/2012	35	< 0.0033	< 0.0033	< 0.0033	< 0.0098	< 0.0033	< 6.7	< 19.6	< 78.2	2.2	--	--
SB-1	1/23/2012	40	< 0.0031	< 0.0031	< 0.0031	< 0.0094	< 0.0031	< 6.4	< 19.4	< 77.7	2.2	--	--
SB-2	1/24/2012	20	< 0.0034	< 0.0034	0.848	0.0178	< 0.0034	1,500	< 18.1	< 72.2	2.9	--	--
SB-2	1/24/2012	35	< 0.0030	< 0.0030	< 0.0030	< 0.0090	< 0.0030	< 6.5	< 19.0	< 75.8	2.7	--	--
SB-3	1/23/2012	5	0.0088	< 0.0035	0.0071	< 0.0106	< 0.0035	392	2,710	9,400	11.4	--	--
SB-3	1/24/2012	10	< 0.0031	< 0.0031	< 0.0031	< 0.0093	< 0.0031	111	68.4	330	11.4	--	--
SB-3	1/24/2012	20	0.0956	5.14	13.2	50.8	< 0.0558	4,390	102	< 68.4	4.4	--	--
SB-3	1/24/2012	50	0.589	< 0.0035	0.0368	< 0.0105	< 0.0035	< 6.6	< 19.5	< 77.8	4.4	--	--
EW-3	1/25/2012	15	< 0.0035	< 0.0035	< 0.0035	< 0.0105	< 0.0035	30.1	< 19.0	< 75.9	6.6	--	--
EW-3	1/25/2012	20	0.069	0.0923	0.232	0.699	< 0.0031	621	29.7	< 64.5	2.9	--	--
EW-3	1/25/2012	30	0.0201	0.0101	0.0113	0.036	< 0.0031	< 6.8	< 18.7	< 74.8	3.2	--	--
SB-4	1/25/2012	15	< 0.0031	< 0.0031	< 0.0031	< 0.0092	< 0.0031	109	< 17.0	< 68.2	3.0	--	--
SB-4	1/25/2012	20	< 0.0029	< 0.0029	< 0.0029	< 0.0086	< 0.0029	5.7	< 16.8	< 67.1	2.5	--	--
SB-4	1/25/2012	35	< 0.0029	< 0.0029	< 0.0029	< 0.0087	< 0.0029	< 6.5	< 19.6	< 78.4	4.5	--	--
EW-1	1/25/2012	15	0.177	0.53	9.15	11.5	< 0.0598	2,160	59.9	< 70.8	3.9	--	--
EW-1	1/26/2012	25	2.54	12.7	10.5	51.8	< 2.66	3,270	123	< 71.7	6.7	--	--
EW-1	1/26/2012	30	0.259	0.0942	0.0849	1.85	< 0.0031	97.6	< 18.8	< 75.4	3.2	--	--
EW-2	1/26/2012	10	0.0042	0.0054	0.0055	0.031	< 0.0030	38.1	< 19.6	< 78.4	8.3	--	--
EW-2	1/26/2012	15	0.129	0.0142	2.01	0.103	< 0.0027	2,270	25.5	< 73.9	5.1	--	--
EW-2	1/26/2012	30	0.005	< 0.0027	< 0.0027	< 0.0081	< 0.0027	9.8	< 19.0	< 76.0	3.3	--	--
AS-1	8/1/2013	15	< 0.0039	< 0.0039	< 0.0039	< 0.0117	--	< 5.9	< 16.2	< 64.8	--	0.02073	--
AS-1	8/1/2013	20	< 0.0227	< 0.0568	0.767	0.881	--	989	167	< 59.1	--	0.0189	--
AS-1	8/1/2013	25	< 0.0031	< 0.0031	0.0038	< 0.0093	--	< 5.7	< 14.9	< 59.7	--	0.019	--
AS-1	8/1/2013	27.5	< 0.005	< 0.0042	< 0.0042	< 0.0126	--	< 6.2	< 16.3	< 65	--	0.0207	--
VE-2	8/1/2013	10	< 0.0042	< 0.0042	< 0.0042	< 0.0127	--	< 6.6	< 16.7	< 66.7	--	--	--
VE-2	8/1/2013	13.5	0.0036	< 0.0034	< 0.0034	< 0.0102	--	8.3	< 15.6	< 62.8	--	--	--

Table 3
Soil Analytical Data
Former ARCO Facility No. 11060
4580 FAUNTLEROY WAY SW, SEATTLE, WA 98126

CONSTITUENT			B	T	E	X (Total)	MTBE	TPH-G	TPH-D	TPH-O	Lead (Total)	Total cPAHs	Total Naphthalenes
UNIT			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
MTCA METHOD A SOIL			0.03	7	6	9	0.1	30	2000	2000	250	0.1	5
AS-4	6/11/2014	15	0.0073	< 0.0011	0.0017 J	< 0.0011	--	< 1.6	< 3.6	< 12	--	--	--
AS-5	6/11/2014	25	0.62	0.19 J	0.12 J	0.46	--	18	30	43	--	--	0.176
AS-6	6/11/2014	25	0.34	0.46	0.54	2.2	--	130	< 3.8	< 13	--	--	0.1
AS-2	6/13/2014	20	0.0012 J	0.0027 J	0.031	0.0094	--	16	< 3.5	< 12	--	0.00058 J	0.0053
AS-3	6/13/2014	10	--	--	--	--	--	2.9 J	7.3 J	39	--	0.7451	--
AS-3	6/13/2014	15	< 0.027	< 0.054	< 0.054	0.33	--	7	17	< 11	--	0.01836	--
AS-3	6/13/2014	20	0.085 J	2.1	8.3	33	--	1,800	8.1	< 11	--	0.00055	--
AS-3	6/13/2014	25	0.63 J	21	19	84	--	3,700	5.6 J	< 12	--	0.00862	--
VE-4	6/13/2014	10	< 0.026	0.061 J	0.14 J	0.98	--	440	520	290	--	0.1846	--
MW-11	10/19/2018	22.5	< 0.000471	0.0015	0.00118	< 0.00563	< 0.000347	1.37	< 1.57	< 3.92	0.462	0.00053379	0.00354
MW-11	10/19/2018	30	< 0.000500	0.00178	0.000696	< 0.00597	< 0.000369	1.62	1.67	< 4.16	1.28	0.00056625	0.00375
MW-12	10/19/2018	17.5	< 0.000443	0.023	0.00183	0.00787	< 0.000327	54.2	< 1.46	< 3.65	1.03	0.00049679	0.003285
MW-12	10/19/2018	22.5	< 0.000456	< 0.00142	0.0502	0.0314	< 0.000336	106	13.8	< 3.79	1.42	0.00051567	0.1033
MW-12	10/19/2018	25	< 0.000462	< 0.00144	0.00412	< 0.00552	< 0.000341	3.06	< 1.54	< 3.85	1.47	0.00052322	0.00468
MW-12	10/19/2018	32.5	< 0.000500	< 0.00156	0.000733	< 0.00597	< 0.000368	3.67	< 1.66	< 4.16	1.39	0.00056549	0.00375
SB-6(F)	7/20/2022	20	< 0.02	< 0.10	< 0.05	< 0.15	--	< 10	< 50	< 250	--	--	--
SB-6(F)	7/20/2022	25	< 0.02	< 0.10	< 0.05	< 0.15	--	< 10	< 50	< 250	--	--	--
SB-6(F)	7/20/2022	30	< 0.02	< 0.10	< 0.05	< 0.15	--	< 10	< 50	< 250	--	--	--
SB-1(F)	10/18/2022	20	< 0.02	< 0.10	< 0.05	< 0.15	--	< 10	< 50	< 250	--	--	--
SB-1(F)	10/18/2022	25	< 0.02	< 0.10	< 0.05	< 0.15	--	< 10	< 50	< 250	--	--	--
SB-1(F)	10/18/2022	30	< 0.02	< 0.10	< 0.05	< 0.15	--	< 10	< 50	< 250	--	--	--
SB-2(F)	10/18/2022	20	< 0.02	< 0.10	< 0.05	< 0.15	--	< 10	< 50	< 250	--	--	--
SB-2(F)	10/18/2022	25	< 0.02	< 0.10	< 0.05	< 0.15	--	< 10	< 50	< 250	--	--	--
SB-2(F)	10/18/2022	30	< 0.02	< 0.10	< 0.05	< 0.15	--	< 10	< 50	< 250	--	--	--

Table 3
Soil Analytical Data
Former ARCO Facility No. 11060
4580 FAUNTLEROY WAY SW, SEATTLE, WA 98126

CONSTITUENT			B	T	E	X (Total)	MTBE	TPH-G	TPH-D	TPH-O	Lead (Total)	Total cPAHs	Total Naphthalenes
UNIT			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
MTCA METHOD A SOIL			0.03	7	6	9	0.1	30	2000	2000	250	0.1	5
SB-3(F)	10/19/2022	20	< 0.02	< 0.10	< 0.05	< 0.15	--	< 10	< 50	< 250	--	--	--
SB-3(F)	10/19/2022	25	< 0.02	< 0.10	< 0.05	< 0.15	--	< 10	< 50	< 250	--	--	--
SB-3(F)	10/19/2022	30	< 0.02	< 0.10	< 0.05	< 0.15	--	< 10	< 50	< 250	--	--	--
SB-4(F)	10/19/2022	20	< 0.02	< 0.10	< 0.05	< 0.15	--	< 10	< 50	< 250	--	--	--
SB-4(F)	10/19/2022	25	< 0.02	< 0.10	< 0.05	< 0.15	--	< 10	< 50	< 250	--	--	--
SB-4(F)	10/19/2022	30	< 0.02	< 0.10	< 0.05	< 0.15	--	< 10	< 50	< 250	--	--	--
SB-5(F)	10/19/2022	20	< 0.02	< 0.10	< 0.05	< 0.15	--	< 10	< 50	< 250	--	--	--
SB-5(F)	10/19/2022	25	< 0.02	< 0.10	< 0.05	< 0.15	--	< 10	< 50	< 250	--	--	--
SB-5(F)	10/19/2022	30	< 0.02	< 0.10	< 0.05	< 0.15	--	< 10	< 50	< 250	--	--	--
SB-7	9/28/2023	10	< 0.024	< 0.072	< 0.048	< 0.048	< 0.048	< 4.8	< 54	< 54	6.6	--	0.011
SB-7	9/28/2023	20	< 0.028	< 0.083	< 0.055	< 0.055	< 0.055	130	< 51	< 51	2.3	--	< 0.0053
SB-7	9/28/2023	35	< 0.028	< 0.083	< 0.055	< 0.055	< 0.055	24	< 58	< 58	2.7	--	< 0.0060
SB-8	9/28/2023	4	< 0.018	< 0.055	< 0.037	< 0.037	< 0.037	< 3.7	< 54	< 54	4.9	--	< 0.0055
SB-8	9/28/2023	10	0.15	< 0.098	< 0.066	< 0.066	< 0.066	< 6.6	< 60	< 60	6.0	--	0.19
SB-8	9/28/2023	15	< 0.026	< 0.077	0.12	0.056	< 0.051	180	73	< 54	3.0	--	0.069
SB-8	9/28/2023	20	0.36	0.46	1.3	7.4	< 0.057	800 *1	< 57	< 57	7.0	--	0.57
SB-8	9/28/2023	25	< 0.027	< 0.08	< 0.053	< 0.053	< 0.053	6.9 *1	< 57	< 57	2.2	--	0.0086
SB-8	9/28/2023	30	0.069	0.65	0.73	4.1	< 0.054	460	< 57	< 57	4.0	--	0.084
SB-8	9/28/2023	35	0.086	0.5	0.41	2.3	< 0.057	170	< 55	< 55	2.6	--	0.05
MW-15	12/19/2023	5	< 0.0012	< 0.0060	< 0.0012	< 0.0060	< 0.0012	< 6.1 H*1	< 61	< 61	6.4	--	< 0.0063
MW-15	12/20/2023	10	< 0.0011	< 0.0055	< 0.0011	< 0.0055	< 0.0011	< 5.8 *1	< 59	68	4.6	--	< 0.0059
MW-15	12/20/2023	15	< 0.0010	< 0.0050	< 0.0010	< 0.0050	< 0.0010	1,200 H*1	120	< 53	3.9	--	0.063
MW-15	12/20/2023	20	< 0.0012	< 0.0060	0.0033	< 0.0060	< 0.0012	140 *1	< 55	< 55	3.5	--	0.016
MW-15	12/20/2023	25	0.0012	< 0.0060	0.022	0.013	< 0.0012	8.6 *1	< 59	< 59	2.9	--	0.0098
MW-15	12/20/2023	30	< 0.0011	< 0.0055	< 0.0011	< 0.0055	< 0.0011	< 4.7 *1	< 55	69	11	--	0.041
MW-15	12/20/2023	35	< 0.0013	< 0.0063	0.0038	< 0.0063	< 0.0013	20 H*1	< 60	< 60	3.6	--	< 0.0060
SB-9	12/19/2023	5	< 0.0013	< 0.0065	< 0.0013	< 0.0065	< 0.0013	< 6.6	< 62	240	9.6	--	< 0.0062
SB-9	12/20/2023	10	0.0013	< 0.0059	< 0.0012	< 0.0059	< 0.0012	< 5.4	< 58	160	13	--	0.13
SB-9	12/20/2023	15	< 0.0011	< 0.0055	< 0.0011	< 0.0055	< 0.0011	< 5.5	< 56	< 56	3.2	--	0.0075
SB-9	12/20/2023	20	0.017	< 0.0051	0.057	< 0.0051	< 0.0010	120	< 54	< 54	3.2	--	0.037
SB-9	12/20/2023	25	0.0090	< 0.0049	0.042	0.017	< 0.00097	30	< 58	< 58	3.5	--	0.059

Table 3
Soil Analytical Data
Former ARCO Facility No. 11060
4580 FAUNTLEROY WAY SW, SEATTLE, WA 98126

CONSTITUENT			B	T	E	X (Total)	MTBE	TPH-G	TPH-D	TPH-O	Lead (Total)	Total cPAHs	Total Naphthalenes
UNIT			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
MTCA METHOD A SOIL			0.03	7	6	9	0.1	30	2000	2000	250	0.1	5
MW-14	12/18/2023	5	< 0.0011	< 0.0057	< 0.0012	< 0.0057	< 0.0011	< 4.8	< 57	< 57	4.1	--	< 0.0053
MW-14	12/21/2023	10	< 0.0012	< 0.0059	< 0.0012	< 0.0059	< 0.0012	7.4	< 61	< 61	5.3	--	< 0.0063
MW-14	12/21/2023	15	< 0.0012	< 0.0062	< 0.0012	< 0.0062	< 0.0012	32	< 59	< 59	3.6	--	< 0.0057
MW-14	12/21/2023	17.5	< 0.0012	< 0.0058	0.13	0.12	< 0.0012	130	< 55	< 55	1.8	--	0.070
MW-14	12/21/2023	20	< 0.0012	< 0.0060	0.042	0.048	< 0.0012	39	< 52	< 52	1.8	--	0.031
MW-14	12/21/2023	30	< 0.0012	< 0.0062	< 0.0012	< 0.0062	< 0.0012	31	< 62	< 62	2.7	--	< 0.0060
MW-16	12/19/2023	5	< 0.0013	< 0.0063	< 0.0013	< 0.0063	< 0.0013	< 6.2	< 64	< 64	7.2	--	< 0.0059
MW-16	12/22/2023	10	< 0.0014	< 0.0068	< 0.0014	< 0.0068	< 0.0014	< 6.9	< 64	< 64	7.5	--	< 0.0066 *- *1
MW-16	12/22/2023	15	< 0.0012	< 0.0062	< 0.0012	< 0.0062	< 0.0012	< 6.0	< 61	< 61	5.0	--	< 0.0059 *- *1
MW-16	12/22/2023	20	< 0.0013	< 0.0063	< 0.0013	< 0.0063	< 0.0013	< 5.6	< 60	< 60	2.8	--	< 0.0058 *- *1
MW-16	12/22/2023	25	< 0.0012	< 0.0060	< 0.0012	< 0.0060	< 0.0012	< 6.1	< 59	< 59	2.5	--	< 0.0059 *- *1
MW-16	12/22/2023	30	< 0.0013	< 0.0067	< 0.0013	< 0.0067	< 0.0013	9.1	< 64	< 64	2.3	--	< 0.0065 *- *1

Notes:

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes, Total

MTBE = Methyl-tertiary-butyl ether

TPH-G = Total petroleum hydrocarbons as gasoline by Northwest Method NWTPH-Gx

TPH-D = Total petroleum hydrocarbons as diesel by Northwest Method NWTPH-Dx

TPH-O = Total petroleum hydrocarbons as oil by Northwest Method NWTPH-Dx

Total cPAH value is the sum of all analyzed cPAHs

Total naphthalenes value is the sum of the naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene values

30/100* - The cleanup level is 100 when there is no benzene present on site

<1.0 = Concentrations were not detected above the laboratory report detection limit.

mg/kg = Micrograms per kilograms

-- = No value given/Not analyzed/Not applicable

MTCA = Model Toxics Control Act

Results in **bold** indicate concentrations in excess of MTCA Method A Cleanup Levels

J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value

H = Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.

*1 = LCS/LCSD RPD exceeds control limits.

*- = LCS and/or LCSD is outside acceptance limits, low biased.

SB-X(F) = Phase II environmental assessment conducted at Franciscan property located at 4550 Fauntleroy Way SW

VE-1 = Formerly known as VW-1. VW-1 was installed in April 1995. The name was changed in April 1998 to VE-1. Referenced from the Arcadis 11/19/2010 Soil Vapor Extraction Pilot Test Workplan.

Reanalysis of the following sample were performed outside of the analytical holding time due to failure of quality control parameters in the initial analysis. : MW-15-5, MW-15-10, and MW-15-35.

Figures

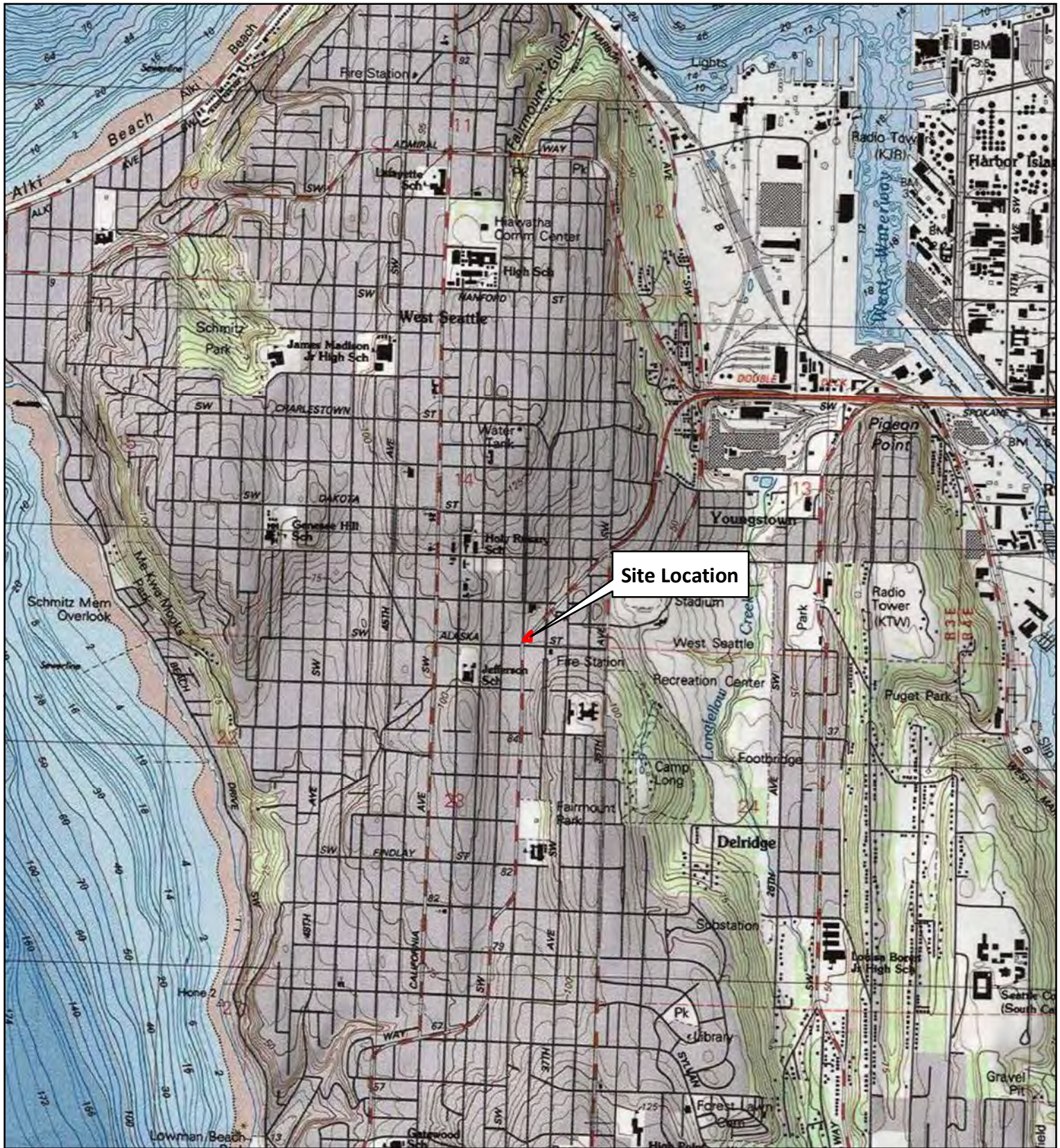
Figure 1 - Site Location Map

Figure 2 - Site Aerial Map

Figure 3 - Soil Analytical Map

Figure 4 - Groundwater Elevation Contour Map – February 6, 2024

Figure 5 - Groundwater Analytical Map – February 6, 2024



USGS Topographic Map 1:24,000
Duwamish Head, WA 2017

0 500 1,000 2,000 3,000 4,000 Feet

FIGURE 1

SITE LOCATION MAP
FORMER ARCO FACILITY NO. 11060
4580 FAUNTLEROY WAY SW
SEATTLE, WA

PROJECT NO.
WA - 11060 SEATTLE

PREPARED BY
SAA

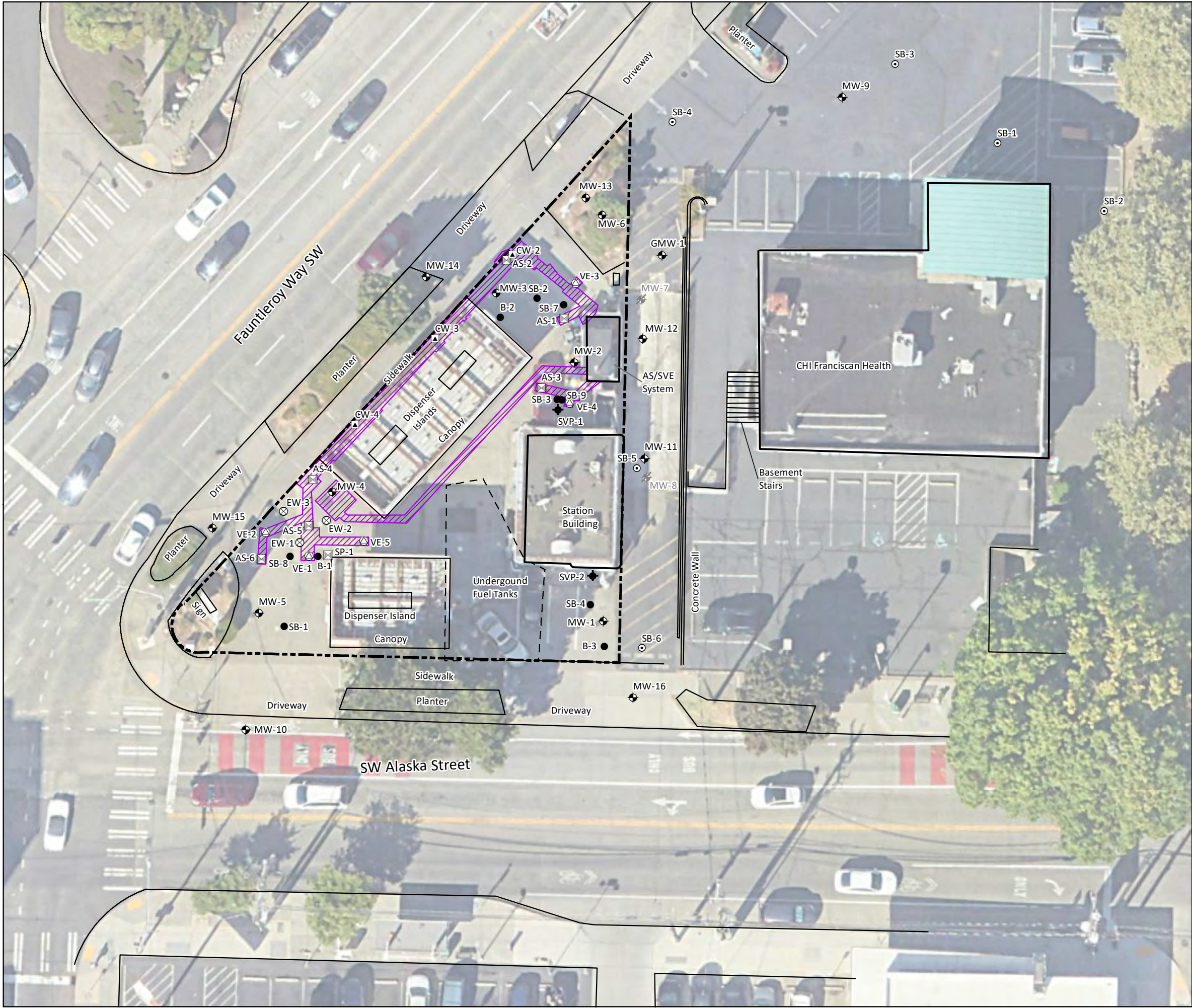
REF SCALE
1:24,000

DATE
2/15/2021

REVIEWED BY
JS

MAP SCALE
1 INCH = 2,000 FEET





- Legend**
- Monitoring Well
 - Abandoned Monitoring Well
 - Extraction Well
 - Air Sparge Well
 - Soil Vapor Probe
 - Vapor Extraction Well
 - Combination Air Sparge and Vapor Extraction Well
 - Soil Boring
 - Soil Boring (2023 Franciscan Phase II Assessment)
 - Approximate Property Line
 - Trench Location

Note: Wells were resurveyed in 2024 and are referenced to vertical datum NAVD 88 and horizontal datum NAD 83 (2011)

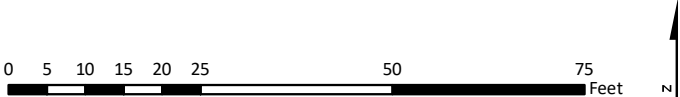


FIGURE 2
SITE AERIAL MAP
FORMER ARCO FACILITY NO. 11060
4580 FAUNTLEROY WAY SEATTLE,
WA

PROJECT NO. 11060	PREPARED BY MB	REF SCALE 1:300	
DATE 4/1/2024	REVIEWED BY JS	MAP SCALE 1 INCH = 25 FEET	

MW-15							
Depth (ft)	5	10	15	20	25	30	35
Date Installed	12/20/2023	12/20/2023	12/20/2023	12/20/2023	12/20/2023	12/20/2023	12/20/2023
Benzene	< 0.0012	< 0.0011	< 0.0010	< 0.0012	0.0012	< 0.0011	< 0.0013
Tolulene	< 0.0060	< 0.0055	< 0.0050	< 0.0060	< 0.0060	< 0.0055	< 0.0063
Ethylbenzene	< 0.0012	< 0.0011	< 0.0010	0.0033	0.022	< 0.0011	0.0038
Total Xylenes	< 0.0060	< 0.0055	< 0.0050	< 0.0060	0.013	< 0.0055	< 0.0063
MTBE	< 0.0012	< 0.0011	< 0.0010	< 0.0012	< 0.0012	< 0.0011	< 0.0013
TPH-G	< 6.1 H*1	< 5.8 *1	1,200 H*1	140 *1	8.6 *1	< 4.7 *1	20 H*1
TPH-D	< 61	< 59	120	< 55	< 59	< 55	< 60
TPH-O	< 61	68	< 53	< 55	< 59	69	< 60
Total Lead	6.4	4.6	3.9	3.5	2.9	11	3.6
Napthalene	< 0.0063	< 0.0059	0.063	0.016	0.0098	0.041	< 0.0060

MW-14						
Depth (ft)	5	10	15	17.5	20	30
Date Installed	12/21/2023	12/21/2023	12/21/2023	12/21/2023	12/21/2023	12/21/2023
Benzene	< 0.0011	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012
Tolulene	< 0.0057	< 0.0059	< 0.0062	< 0.0058	< 0.0060	< 0.0062
Ethylbenzene	< 0.0012	< 0.0012	< 0.0012	0.13	0.042	< 0.0012
Total Xylenes	< 0.0057	< 0.0059	< 0.0062	0.12	0.048	< 0.0062
MTBE	< 0.0011	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012
TPH-G	< 4.8	7.4	32	130	39	31
TPH-D	< 57	< 61	< 59	< 55	< 52	< 62
TPH-O	< 57	< 61	< 59	< 55	< 52	< 62
Total Lead	4.1	5.3	3.6	1.8	1.8	2.7
Napthalene	< 0.0053	< 0.0063	< 0.0057	0.07	0.031	< 0.0060

SB-7			
Depth (ft)	10	20	35
Date Installed	9/28/2023	9/28/2023	9/28/2023
Benzene	< 0.024	< 0.028	< 0.028
Tolulene	< 0.072	< 0.083	< 0.083
Ethylbenzene	< 0.048	< 0.055	< 0.055
Total Xylenes	< 0.048	< 0.055	< 0.055
MTBE	< 0.048	< 0.055	< 0.055
TPH-G	< 4.8	130	24
TPH-D	< 54	< 51	< 58
TPH-O	< 54	< 51	< 58
Total Lead	6.6	2.3	2.7
Napthalene	0.011	< 0.0053	< 0.0060

SB-9					
Depth (ft)	5	10	15	20	25
Date Installed	12/20/2023	12/20/2023	12/20/2023	12/20/2023	12/20/2023
Benzene	< 0.0013	0.0013	< 0.0011	0.017	0.009
Tolulene	< 0.0065	< 0.0059	< 0.0055	< 0.0051	< 0.0049
Ethylbenzene	< 0.0013	< 0.0012	< 0.0011	0.057	0.042
Total Xylenes	< 0.0065	< 0.0059	< 0.0055	< 0.0051	0.017
MTBE	< 0.0013	< 0.0012	< 0.0011	< 0.0010	< 0.00097
TPH-G	< 6.6	< 5.4	< 5.5	120	30
TPH-D	< 62	< 58	< 56	< 54	< 58
TPH-O	240	160	< 56	< 54	< 58
Total Lead	9.6	13	3.2	3.2	3.5
Napthalene	< 0.0062	0.13	0.0075	0.037	0.059

SB-8							
Depth (ft)	4	10	15	20	25	30	35
Date Installed	9/28/2023	9/28/2023	9/28/2023	9/28/2023	9/28/2023	9/28/2023	9/28/2023
Benzene	< 0.018	0.15	< 0.026	0.36	< 0.027	0.069	0.086
Tolulene	< 0.055	< 0.098	< 0.077	0.46	< 0.08	0.65	0.5
Ethylbenzene	< 0.037	< 0.066	0.12	1.3	< 0.053	0.73	0.41
Total Xylenes	< 0.037	< 0.066	0.056	7.4	< 0.053	4.1	2.3
MTBE	< 0.037	< 0.066	< 0.051	< 0.057	< 0.053	< 0.054	< 0.057
TPH-G	< 3.7	< 6.6	180	800 *1	6.9 *1	460	170
TPH-D	< 54	< 60	73	< 57	< 57	< 57	< 55
TPH-O	< 54	< 60	< 54	< 57	< 57	< 57	< 55
Total Lead	4.9	6	3	7	2.2	4	2.6
Napthalene	< 0.0055	0.19	0.069	0.57	0.0086	0.084	0.05

MW-16						
Depth (ft)	5	10	15	20	25	30
Date Installed	12/21/2023	12/21/2023	12/21/2023	12/21/2023	12/21/2023	12/21/2023
Benzene	< 0.0013	< 0.0014	< 0.0012	< 0.0013	< 0.0012	< 0.0013
Tolulene	< 0.0063	< 0.0068	< 0.0062	< 0.0063	< 0.0060	< 0.0067
Ethylbenzene	< 0.0013	< 0.0014	< 0.0012	< 0.0013	< 0.0012	< 0.0013
Total Xylenes	< 0.0063	< 0.0068	< 0.0062	< 0.0063	< 0.0060	< 0.0067
MTBE	< 0.0013	< 0.0014	< 0.0012	< 0.0013	< 0.0012	< 0.0013
TPH-G	< 6.2	< 6.9	< 6.0	< 5.6	< 6.1	9.1
TPH-D	< 64	< 64	< 61	< 60	< 59	< 64
TPH-O	< 64	< 64	< 61	< 60	< 59	< 64
Total Lead	7.2	7.5	5	2.8	2.5	2.3
Napthalene	< 0.0059	< 0.0066 *-*1	< 0.0059 *-*1	< 0.0058 *-*1	< 0.0059 *-*1	< 0.0065 *-*1

Legend

Monitoring Well

Abandoned Monitoring Well

Extraction Well

Air Sparge Well

Soil Vapor Probe

Vapor Extraction Well

Combination Air Sparge and Vapor Extraction Well

Soil Boring

Soil Boring (2023 Franciscan Phase II Assessment)

Approximate Property Line

Trench Location

Notes:

all data reported in micrograms per kilogram (mg/kg)

TPH-G = Total Petroleum Hydrocarbons (TPH) as Gasoline Range Organics (NWTPH-Gx)

TPH-D = TPH as Diesel Range Organics (NWTPH-Dx)

TPH-O = TPH as Heavy Oil Range Organics (NWTPH-Ox)

J = estimated value

< = less than laboratory indicated detection limit

-- = not analyzed

*- = LCS and/or LCSD is outside acceptance limits, low biased

Bold = exceeds MTCA Method A Cleanup Level

MTCA = Model Toxics Control Act

*1 = LCS/LCSD RPD exceeds control limits

H = Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.



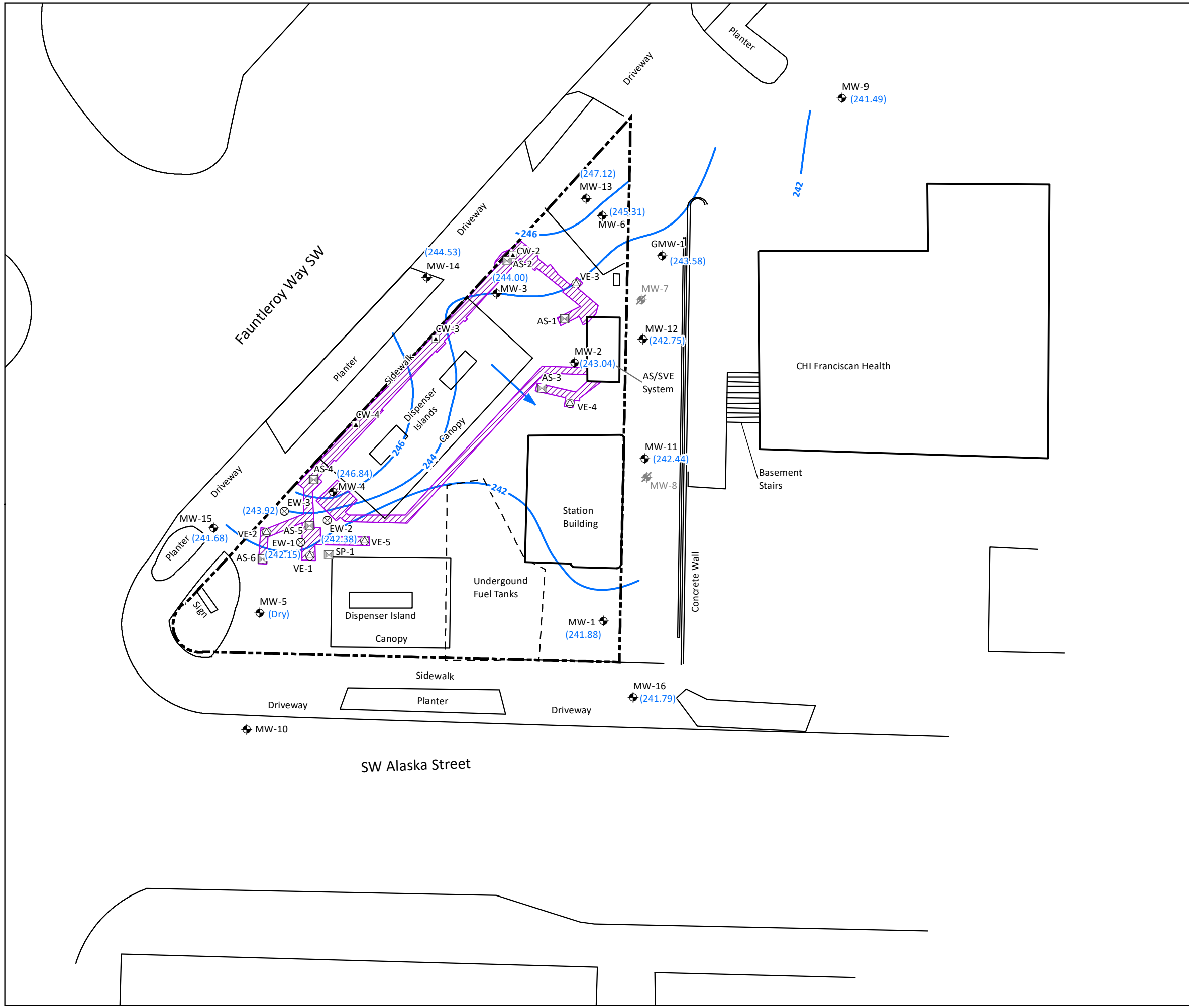
FIGURE 3

SOIL ANALYTICAL MAP 2023

FORMER ARCO FACILITY NO. 11060

4580 FAUNTLEROY WAY SEATTLE, WA

PROJECT NO. 11060	PREPARED BY MB	REF SCALE 1:300	
DATE 3/29/2024	REVIEWED BY JS	MAP SCALE 1 INCH = 25 FEET	



- Legend**
- Monitoring Well
 - Abandoned Monitoring Well
 - Extraction Well
 - Air Sparge Well
 - Vapor Extraction Well
 - Combination Air Sparge and Vapor Extraction Well
 - Approximate Property Line
 - Trench Location
 - Groundwater Elevation Contour
(Contour Interval = 2 feet)
 - Inferred Groundwater Flow Direction
 - (241.49) Groundwater Elevation (feet)

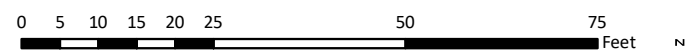
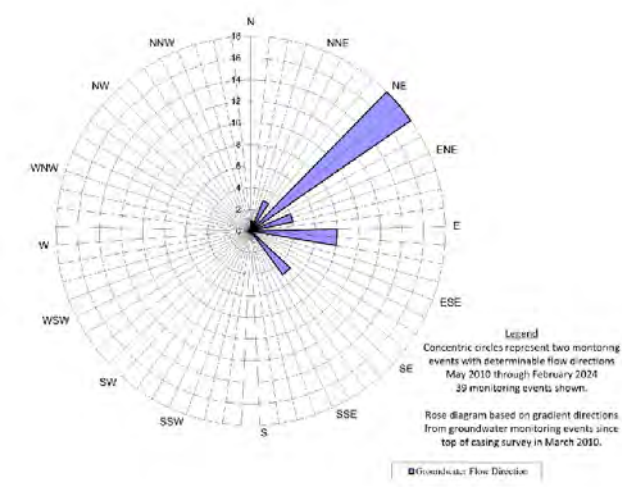
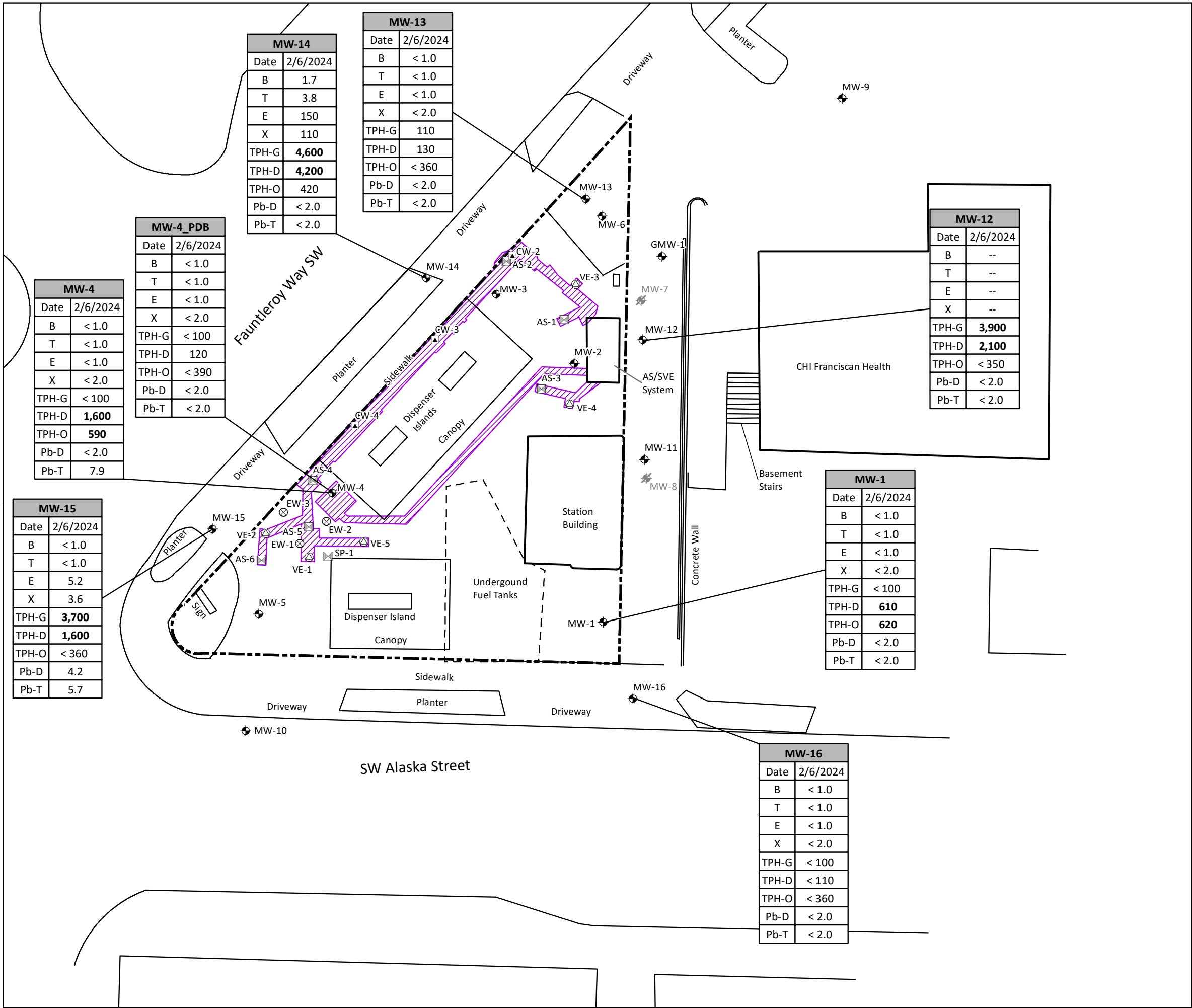


FIGURE 4
GROUNDWATER ELEVATION CONTOUR MAP
FEBRUARY 6, 2024
FORMER ARCO FACILITY NO. 11060
4580 FAUNTLEROY WAY
SEATTLE, WA

PROJECT NO. 11060	PREPARED BY MB	REF SCALE 1:300	
DATE 4/2/2024	REVIEWED BY JS	MAP SCALE 1 INCH = 25 FEET	



- Legend**
- Monitoring Well
 - Abandoned Monitoring Well
 - Extraction Well
 - Air Sparge Well
 - Vapor Extraction Well
 - Combination Air Sparge and Vapor Extraction Well
 - Approximate Property Line
 - Trench Location

Notes:
All concentrations reported in micrograms per liter (ug/L)
B - Benzene
T - Toluene
E - Ethylbenzene
X - Total Xylenes
MTBE - Methyl-tertiary-butyl ether
TPH-G = Total petroleum hydrocarbons as gasoline
TPH-D = Total petroleum hydrocarbons as diesel
TPH-O = Total petroleum hydrocarbons as oil
Pb-T = Total Lead
Pb-D = Dissolved Lead
< - Concentrations were not detected above the laboratory method reporting limit
Bold = Value above MTCA Method A Cleanup Level
MTCA = Model Toxics Control Act
MW-4_PDB sample was collected from a Passive Diffusion Bag (PDB)

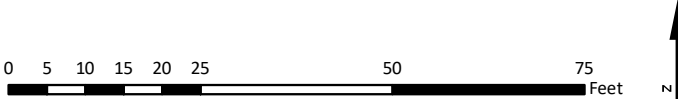


FIGURE 5
GROUNDWATER ANALYTICAL DATA MAP
FEBRUARY 6, 2024
FORMER ARCO FACILITY NO. 11060
4580 FAUNTLEROY WAY SEATTLE, WA

PROJECT NO. 11060	PREPARED BY MB	REF SCALE 1:300	
DATE 4/1/2024	REVIEWED BY JS	MAP SCALE 1 INCH = 25 FEET	

Appendix A – Boring Logs

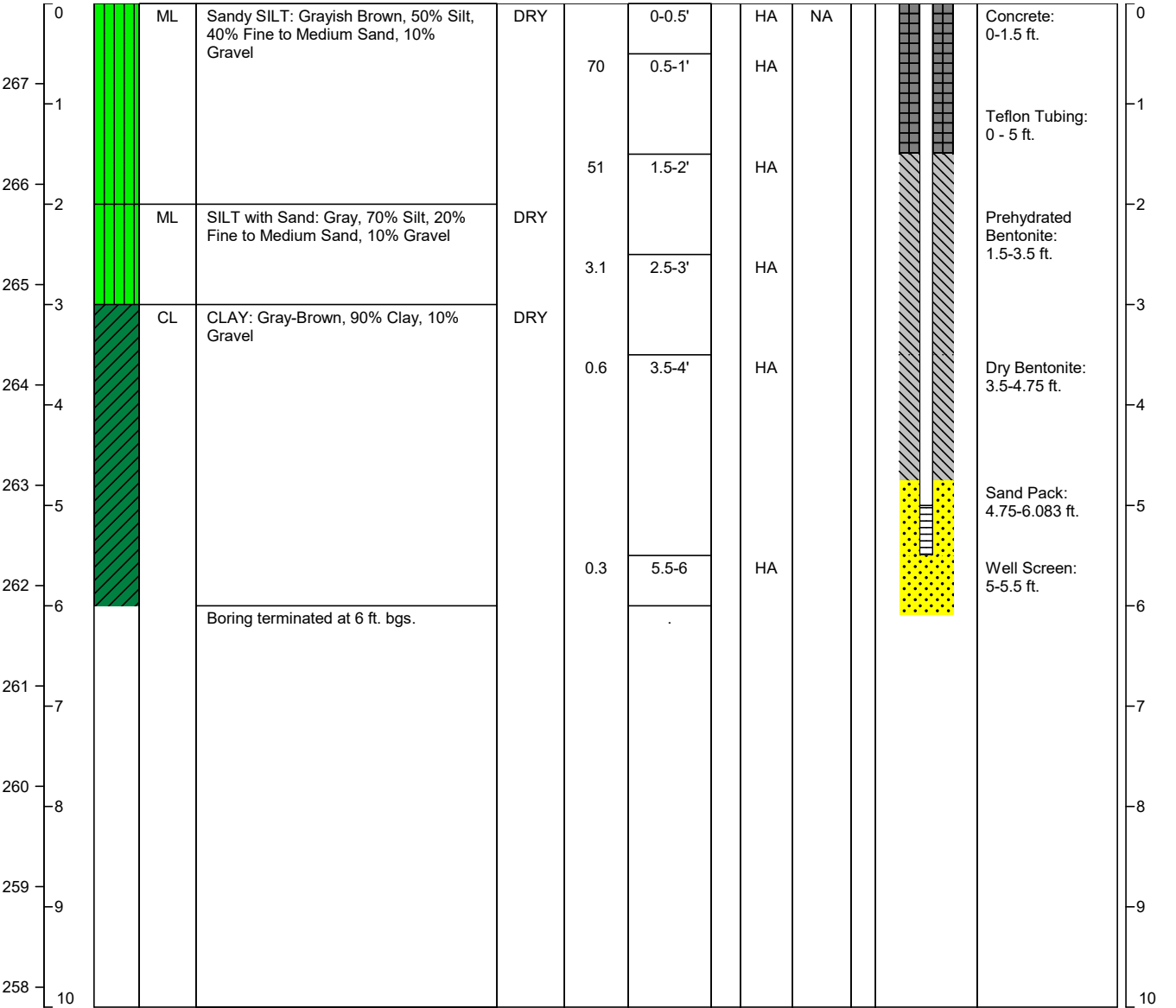
Project Name WA - 11060 Seattle			Monitoring Well Construction Log		Well Number / Well ID SVP-1 / BPR 567	
Address 4580 Fauntleroy Way SW Seattle Washington		Drilling Contractor Cascade	Ground Surface Elevation: 267.80		Top of Casing Elevation: NS	
		Drilling Method Hand Auger	Boring Depth 6.083 ft.		Boring Diameter 3 in.	
Logged By JL and MH	Approved By J. Leurquin	Sampling Method Hand Auger	Well Depth 6.083 ft	Casing Type 0.25" Teflon Tubing	Well Screen Interval 5 - 5.5 ft.	Slot Size 0.0057"
Antea Group Project Number WA - 11060 Seattle		Headspace Monitoring Device PID	Date Drilling Started / Completed 9/27/2023		Sand Pack Interval 4.75 - 6.083 ft.	

LITHOLOGY

SAMPLING DATA

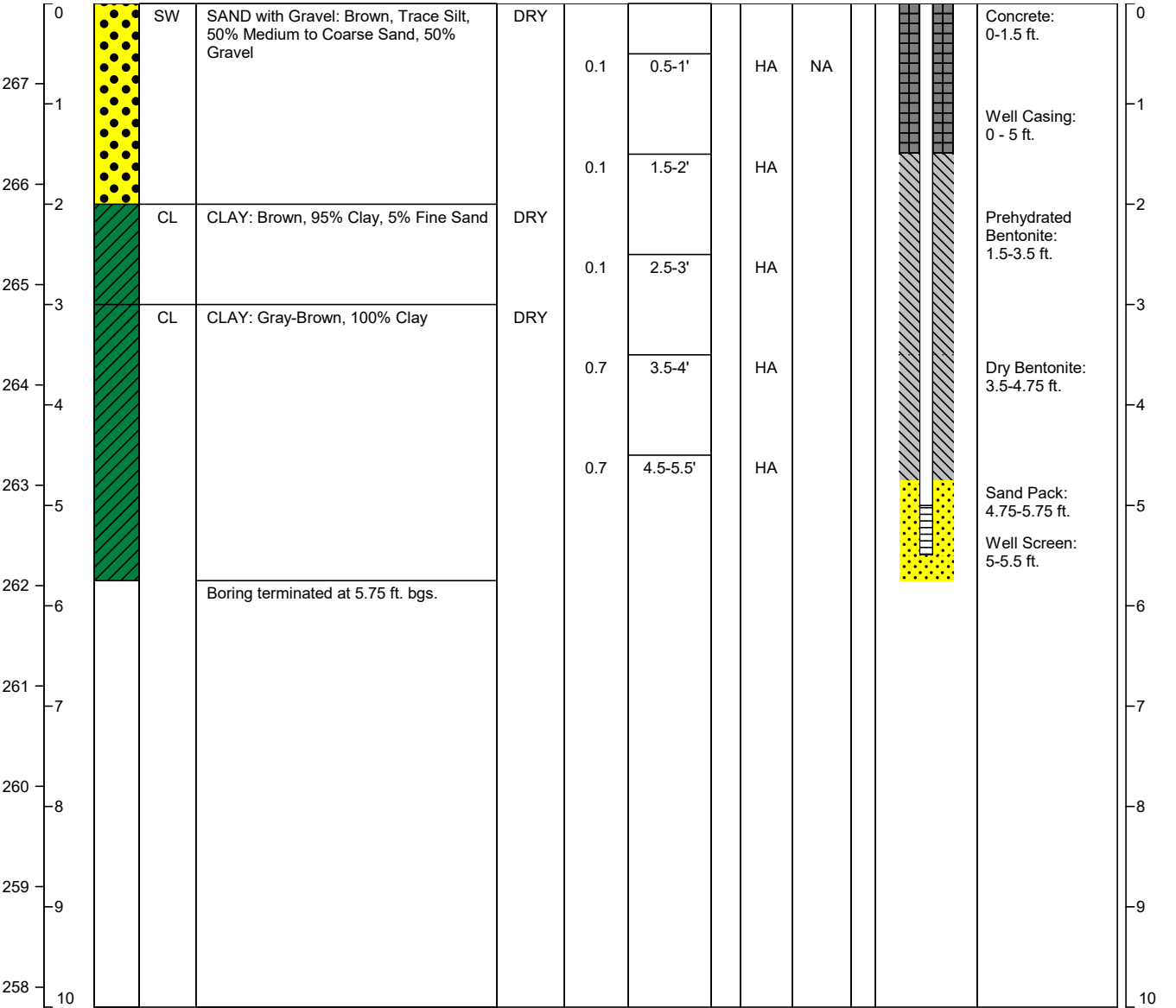
WELL DATA

Elevation	Depth	Graphic Log	USCS	Visual Description	Moisture Content	Headspace (ppm)	Soil Recovery Interval (ft)	Lab Analysis	Sampling Method	Density / Blows	Water Level	Well Diagram	Well Details	Depth



Project Name WA - 11060 Seattle			Monitoring Well Construction Log		Well Number / Well ID SVP-2 / BPR 568	
Address 4580 Fauntleroy Way SW Seattle Washington		Drilling Contractor Cascade Drilling	Ground Surface Elevation: 267.80		Top of Casing Elevation: NS	
		Drilling Method Hand Auger	Boring Depth 5.75 ft.		Boring Diameter 3 in.	
Logged By JL and MH	Approved By J. Leurquin	Sampling Method Hand Auger	Well Depth 5.75 ft.	Casing Type 0.25 in. Teflon Tubing	Well Screen Interval 5 - 5.5 ft.	Slot Size 0.0057"
Antea Group Project Number WA - 11060 Seattle		Headspace Monitoring Device PID	Date Drilling Started / Completed 09/26/2023		Sand Pack Interval 4.75 - 5.75 ft.	

LITHOLOGY				SAMPLING DATA				WELL DATA						
Elevation	Depth	Graphic Log	USCS	Visual Description	Moisture Content	Headspace (ppm)	Soil Recovery Interval (ft)	Lab Analysis	Sampling Method	Density / Blows	Water Level	Well Diagram	Well Details	Depth



Project Name WA - 11060 Seattle			Soil Boring Log		Soil Boring Number SB-7
Address 4580 Fauntleroy Way SW Seattle WA		Drilling Contractor/License Cascade Drilling	Headspace Monitoring Device PID	Boring Depth 35 ft.	
		Drilling Method Sonic	Sampling Method Sonic	Boring Diameter 6 in.	
Logged By JL and MH	Approved By J. Leurquin	Drilling Equipment Sonic	Sampling Equipment Sonic	Backfill Material / Surface Finish Fill	
Antea Group Project Number WA - 11060 Seattle		Driller Name Cascade Drilling	Date Drilling Started 09/28/2023	Date Drilling Completed 09/28/2023	

LITHOLOGY

SAMPLING DATA

Elevation	Depth	Graphic Log	USCS	Visual Description	Moisture Content	Headspace (ppm)	Soil Recovery Interval (ft)	Lab Analysis	Sampling Method	Density / Blows	Water Level	Depth

0	0							HA				0
			CL	CLAY: Gray-Brown, 90% Clay, 10% Medium Sand	DRY	0.1	2.5-3'			NA		
			CL	CLAY: Gray-Brown, 90% Clay, 5% Medium Sand, 5% Gravel	DRY	0.7	4.5-5'	HA				5
			CL	CLAY: Gray-Brown, 90% Clay, 10% Fine to Medium Sand; Compact	WET	0.3	10-15'	S				10
			ML	Sandy Silty CLAY: Brown Red, 50% Silt Clay Mixture, 45% Fine Sand, 5% Gravel	DRY	1.7	15-20'	S				15
						4.6						20

HA = Hand Auger
S = Sonic

Project Name WA - 11060 Seattle			Soil Boring Log		Soil Boring Number SB-7
Address 4580 Fauntleroy Way SW Seattle WA		Drilling Contractor/License Cascade Drilling	Headspace Monitoring Device PID	Boring Depth 35 ft.	
		Drilling Method Sonic	Sampling Method Sonic	Boring Diameter 6 in.	
Logged By JL and MH	Approved By J. Leurquin	Drilling Equipment Sonic	Sampling Equipment Sonic	Backfill Material / Surface Finish Fill	
Antea Group Project Number WA - 11060 Seattle		Driller Name Cascade Drilling	Date Drilling Started 09/28/2023	Date Drilling Completed 09/28/2023	

LITHOLOGY

SAMPLING DATA

Elevation	Depth	Graphic Log	USCS	Visual Description	Moisture Content	Headspace (ppm)	Soil Recovery Interval (ft)	Lab Analysis	Sampling Method	Density / Blows	Water Level	Depth
			SM	Silty SAND: Gray, 25% Silt, 70% Fine to Coarse Sand, 5% Gravel	DRY	908.9	20-25'		S			
-25	25		SP	SAND: Brown, 100% Fine Sand, Compact	DRY	4.3	25-30'		S			25
-30	30		ML	Sandy SILT: Gray Brown, 50% Silt, 45% Very Fine Sand, 5% Gravel	DRY	920.4	30-35'		S			30
-35	35		ML	Sandy SILT: Brown Gray, 60% Silt, 40% Very Fine to Medium Sand. End of Boring at 35'	DRY	100						35
				Boring terminated at 35 ft. bgs.								
-40	40											40

HA = Hand Auger
S = Sonic

Project Name BP 11060		Soil Boring Log		Soil Boring Number SB-8	
Address 4580 Fauntleroy Way SW Seattle Washington		Drilling Contractor/License Cascade Drilling		Headspace Monitoring Device PID	
		Drilling Method Sonic		Boring Depth 35 ft.	
		Sampling Method Continuous Sample		Boring Diameter 6 in.	
Logged By JL and MH		Approved By J. Leurquin		Drilling Equipment Sonic	
		Sampling Equipment Sonic		Backfill Material / Surface Finish Fill	
Antea Group Project Number WA - 11060 Seattle		Driller Name Cascade Drilling		Date Drilling Started 09/28/2023	
				Date Drilling Completed 09/28/2023	

LITHOLOGY

SAMPLING DATA

Elevation	Depth	Graphic Log	USCS	Visual Description	Moisture Content	Headspace (ppm)	Soil Recovery Interval (ft)	Lab Analysis	Sampling Method	Density / Blows	Water Level	Depth

0	0		ML	Sandy SILT with Gravel: Gray-Brown, 60% Silt, 20% Fine to Coarse Sand, 20% Gravel	DRY		0 - 5'		HA	NA		0
						0.1						
-5	5		CL	Silty CLAY with Sand: Gray-Brown, 80% Clay Silt Mixture, 20% Fine to Medium Sand	DRY		5 - 10'		HA			5
						0.1						
-10	10		CL	Silty CLAY: Gray-Brown, 90% Clay Silt Mixture, 10% Fine Sand	DRY		10 - 15'		S			10
						0.3						
-15	15		CL	CLAY: Gray Brown with Black Pockets, 90% Clay, 5% Fine Sand	DRY	174.3	15 - 20'		S			15
-20	20											20

HA = Hand Auger
S = Sonic

Project Name BP 11060			Soil Boring Log		Soil Boring Number SB-8
Address 4580 Fauntleroy Way SW Seattle Washington		Drilling Contractor/License Cascade Drilling	Headspace Monitoring Device PID	Boring Depth 35 ft.	
		Drilling Method Sonic	Sampling Method Continuous Sample	Boring Diameter 6 in.	
Logged By JL and MH	Approved By J. Leurquin	Drilling Equipment Sonic	Sampling Equipment Sonic	Backfill Material / Surface Finish Fill	
Antea Group Project Number WA - 11060 Seattle		Driller Name Cascade Drilling	Date Drilling Started 09/28/2023	Date Drilling Completed 09/28/2023	

LITHOLOGY

SAMPLING DATA

Elevation	Depth	Graphic Log	USCS	Visual Description	Moisture Content	Headspace (ppm)	Soil Recovery Interval (ft)	Lab Analysis	Sampling Method	Density / Blows	Water Level	Depth
			CL	CLAY: Gray Brown with Black Pockets, 90% Clay, 5% Fine Sand	DRY	1,747	20 - 25'		S			
-25	25		SP	SAND: Brown, 100% Fine Sand, Compact	DRY	10.3	25 - 30'		S			25
-30	30		SP	SAND: Brown, 100% Fine Sand, Trace Gravel	DRY	868.7	30 - 35'		S			30
-35	35		SP	SAND: Brown 100% Fine Sand. End of Boring at 35'	DRY	847						35
				Boring terminated at 35 ft. bgs.								
-40	40											40

HA = Hand Auger
S = Sonic

Project Name Former BP Facility #11060			Soil Boring Log		Soil Boring Number SB-9
Address 4580 Fauntleroy Way Seattle Washington		Drilling Contractor/License Cascade Drilling	Headspace Monitoring Device PID	Boring Depth 25 ft.	Boring Diameter 8.25 in.
Logged By D. Lindelof		Approved By J. Leurquin	Drilling Method Air Knife / Hollow Stem Auger	Sampling Method Hand Auger / Split Spoon	Backfill Material / Surface Finish Bentonite / Cement
Antea Group Project Number WA-0011060		Driller Name Cascade Drilling	Date Drilling Started 12/19/2023	Date Drilling Completed 12/20/2023	

LITHOLOGY

SAMPLING DATA

Elevation	Depth	Graphic Log	USCS	Visual Description	Moisture Content	Headspace (ppm)	Soil Recovery Interval (ft)	Lab Analysis	Sampling Method	Density / Blows	Water Level	Depth

0	0		SP-SM	Concrete								0
				Fine to Coarse SAND with SILT, few gravel, medium dense, grey brown, no petroleum odor	moist	0.2	0 - 5		HA	NA		
			ML	Sandy SILT, medium dense, grey brown, no petroleum odor	moist	0.0						
-5	5		ML	Sandy SILT, medium dense, grey brown, no petroleum odor	moist	0.0						5
			ML	Sandy SILT, medium dense, grey, no petroleum odor	moist							
			ML	SILT with fine SAND, medium dense, grey, no petroleum odor	moist	0.6	7.5 - 9		SS	6 12 18		
-10	10		SM	Silty SAND, medium dense, brown, no petroleum odor	moist	0.2	10 -11.5		SS	3 4 5		10
			ML	Sandy SILT, trace gravel, grey brown, very slight petroleum odor	moist	0.6	12 -13.5		SS	4 8 18		
-15	15		ML	Sandy SILT; grey brown, no petroleum odor	moist	2.7	15 -16.5		SS	10 20 28		15
			SM	Silty fine SAND, grey brown, very dense, slight-moderate petroleum odor	moist	28.8	17.5 -19		SS	26 50/6		
-20	20		SM	Silty fine SAND, grey, very dense, strong petroleum odor	moist	351.0	20 -21.5		SS	22 50/6		20
			SM	Silty fine SAND, grey, very dense, moderate petroleum odor	moist	109.1	22.5 -24		SS			
-25	25		SM	Silty fine SAND, grey, very dense, strong petroleum odor	moist	249.4	24.5-25		SS	50/6		25
				Boring terminated at 25 ft. bgs.								

HA = Hand Auger
SS = Split Spoon

Project Name					Well Number / Well ID	
Former BP Facility #11060					MW-13 / BPR 763	
Address 4580 Fauntleroy Way SeattleWashington		Drilling Contractor Cascade Drilling	Ground Surface Elevation: 266.04		Top of Casing Elevation: 265.51	
		Drilling Method Air Knife / Hollow Stem Auger	Boring Depth 30 ft.		Boring Diameter 4 in.	
Logged By D. Lindelof	Approved By J. Leurquin	Sampling Method Hand Auger / Split Spoon	Well Depth 30 ft.	Casing Type 2" SCH 40 PVC	Well Screen Interval 15 - 30 ft.	Slot Size 0.010
Antea Group Project Number WA-0011060		Headspace Monitoring Device PID	Date Drilling Started / Completed 12/19/2023 - 12/20/2023		Sand Pack Interval 13 - 30 ft.	

LITHOLOGY
SAMPLING DATA
WELL DATA

Elevation	Depth	Graphic Log	USCS	Visual Description	Moisture Content	Headspace (ppm)	Soil Recovery Interval (ft)	Lab Analysis	Sampling Method	Density / Blows	Water Level	Well Diagram	Well Details	Depth
266 0													Concrete Pad with Well Vault: 0 - 2 ft.	0
265 1			SC	Fine SAND, few clay particles, trace gravel, medium dense, brown, no petroleum odor	moist	0.0	0.75-1.25		HA	NA				1
264 2					moist									2
263 3			SM	Silty fine SAND, trace gravel, medium dense, brown, no petroleum odor		0.2	2.75-3.25		HA				Hydrated Bentonite Chips: 2 - 13 ft.	3
262 4														4
261 5				same as above	moist	0.0	4.75-5.25		HA				2" SCH40 Blank PVC Casing: 0 - 15 ft.	5
260 6														6
259 7							6.75-7.25		SS					7
258 8														8
257 9														9
256 10				same as above	moist	0.7	10 - 11		SS	5 14 12				10
255 11														11
254 12														12
253 13														13
252 14				SILT, few sand, medium dense, medium plasticity, brown to grey, slight petroleum odor									Sand Pack: 13 - 30 ft.	14
251 15			ML		moist	3.8	15 - 16		SS	15 22 30			2" SCH 40 PVC Casing with 0.010 Slotted Screen: 15 - 30 ft.	15
250 16			SM	Silty fine SAND, medium dense, grey, slight petroleum odor										16
249 17				Sampling end at 16 ft. bgs; well installed to 30 ft. bgs.										17
248 18														18
247 19														19
246 20														20
245 21														21
244 22														22
243 23														23
242 24														24
241 25														25
240 26														26
239 27														27
238 28														28
237 29														29
30 30														30

HA = Hand Auger
SS = Split Spoon

LITHOLOGY **SAMPLING DATA** **WELL DATA**

HA = Hand Auger SS = Split Spoon	 
Page 1 of 2  First Encountered Groundwater  Static Groundwater	

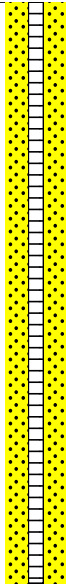
Project Name Former BP Facility #11060		Monitoring Well Construction Log		Well Number / Well ID MW-14 / BPR 762	
Address 4580 Fauntleroy Way Seattle Washington	Drilling Contractor Cascade Drilling		Ground Surface Elevation: 266.84		Top of Casing Elevation: 266.17
	Drilling Method Air Knife / Hollow Stem Auger		Boring Depth 31 ft.		Boring Diameter 4 in.
Logged By D. Lindelof	Approved By J. Leurquin	Sampling Method Hand Auger / Split Spoon	Well Depth 30 ft.	Casing Type 2" SCH 40 PVC	Well Screen Interval 15 - 30 ft.
Antea Group Project Number WA-0011060		Headspace Monitoring Device PID	Date Drilling Started / Completed 12/18/2023 - 12/21/2023		Slot Size 0.010
		Date Drilling Started / Completed 12/18/2023 - 12/21/2023		Sand Pack Interval 13 - 30 ft.	

LITHOLOGY

SAMPLING DATA

WELL DATA

Elevation	Depth	Graphic Log	USCS	Visual Description	Moisture Content	Headspace (ppm)	Soil Recovery Interval (ft)	Lab Analysis	Sampling Method	Density / Blows	Water Level	Well Diagram	Well Details	Depth

246	21		SM	Silty fine SAND, very dense, brown, petroleum odor, cobble @ 21'	moist	364	20 -21.5		SS	50/6				21
245	22													22
244	23		SM	Silty fine SAND, very dense, grey to brown, no petroleum odor	moist	31.6	22.5 -24		SS	50/6				23
243	24													24
242	25		SM	Silty fine SAND, abundant cobbles, very dense, brown, slight petroleum odor	moist	20.4	25 -26.5		SS	30 50/6				25
241	26													26
240	27													27
239	28		SM	Silty fine SAND, very dense, grey to brown, very slight petroleum odor	moist	19.4	27.5 -29		SS	27 50/6				28
238	29													29
237	30		SM	Silty fine SAND, very dense, grey to brown, no petroleum odor	moist	12.9	30 - 31		SS	26 50/6				30
236	31			Sampling end at 31 ft. bgs; well installed to 30 ft bgs.										31
235	32													32
234	33													33
233	34													34
232	35													35
231	36													36
230	37													37
229	38													38
228	39													39
227	40													40

HA = Hand Auger
SS = Split Spoon

Project Name Former BP Facility #11060				Monitoring Well Construction Log		Well Number / Well ID MW-15 / BDR 761	
Address 4580 Fauntleroy Way Seattle Washington		Drilling Contractor Cascade Drilling	Ground Surface Elevation: 268.99		Top of Casing Elevation: 268.67		
		Drilling Method Air Knife / Hollow Stem Auger	Boring Depth 35 ft.		Boring Diameter 8.25 in.		
Logged By D. Lindelof	Approved By J. Leurquin	Sampling Method Hand Auger / Split Spoon	Well Depth 35 ft.	Casing Type 2" SCH 40 PVC	Well Screen Interval 20 - 35 ft.	Slot Size 0.010	
Antea Group Project Number WA-0011060		Headspace Monitoring Device PID	Date Drilling Started / Completed 12/20/2023		Sand Pack Interval 17 - 35 ft.		

LITHOLOGY
SAMPLING DATA
WELL DATA

Elevation	Depth	Graphic Log	USCS	Visual Description	Moisture Content	Headspace (ppm)	Soil Recovery Interval (ft)	Lab Analysis	Sampling Method	Density / Blows	Water Level	Well Diagram	Well Details	Depth

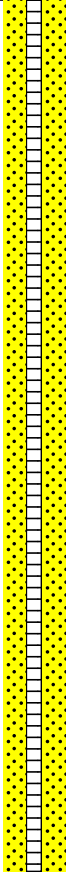
0				Concrete						NA			Concrete Pad with Well Vault: 0 - 2 ft.	0
268	1		SP	Fine SAND, trace cobbles, medium dense, brown grey, no petroleum odor	moist	0.0	0.75-1.25		HA					1
267	2													2
266	3		ML	SILT with fine sand, medium dense, grey, no petroleum odor	moist	0.0	2.75-3.25		HA				Hydrated Bentonite Chips: 2 - 17 ft.	3
265	4													4
264	5		ML	SILT with fine sand, medium dense, grey, no petroleum odor	moist	0.0	4.75-5.25		HA				2" SCH40 Blank PVC Casing: 0 - 20 ft.	5
263	6													6
262	7				moist	0.2	7- 8.5		SS	9				7
261	8		CL	Silty CLAY, few fine sand, soft, low plasticity, brown, no petroleum odor						9				8
260	9									6				9
259	10		CL	Silty CLAY, few fine sand, dense, low plasticity, brown, no petroleum odor	moist	0.0	10- 11.5		SS	50/6				10
258	11													11
257	12				moist	17.8								12
256	13		ML	SILT with fine sand, soft-firm, low plasticity, grey, slight petroleum odor			12.5 -14		SS	15				13
255	14									20				14
254	15		ML	Sandy SILT, firm, low plasticity, grey, strong petroleum odor	moist	90.7	15- 16.5		SS	25				15
253	16									50/6				16
252	17													17
251	18		SM	Silty fine SAND, very dense, grey, strong petroleum odor	moist	92.7	17.5 -19		SS	25			Sand Pack: 17 - 35 ft.	18
250	19									50/6				19
249	20													20

HA = Hand Auger
SS = Split Spoon

Project Name Former BP Facility #11060				Monitoring Well Construction Log		Well Number / Well ID MW-15 / BDR 761	
Address 4580 Fauntleroy Way Seattle Washington		Drilling Contractor Cascade Drilling	Ground Surface Elevation: 268.99		Top of Casing Elevation: 268.67		
		Drilling Method Air Knife / Hollow Stem Auger	Boring Depth 35 ft.		Boring Diameter 8.25 in.		
Logged By D. Lindelof	Approved By J. Leurquin	Sampling Method Hand Auger / Split Spoon	Well Depth 35 ft.	Casing Type 2" SCH 40 PVC	Well Screen Interval 20 - 35 ft.	Slot Size 0.010	
Antea Group Project Number WA-0011060		Headspace Monitoring Device PID	Date Drilling Started / Completed 12/20/2023		Sand Pack Interval 17 - 35 ft.		

LITHOLOGY
SAMPLING DATA
WELL DATA

Elevation	Depth	Graphic Log	USCS	Visual Description	Moisture Content	Headspace (ppm)	Soil Recovery Interval (ft)	Lab Analysis	Sampling Method	Density / Blows	Water Level	Well Diagram	Well Details	Depth

248	21		SM	Silty fine SAND, dense, grey-brown, strong petroleum odor	moist	162.9	20 -21.5		SS	50/6			2" SCH 40 PVC Casing with 0.010 Slotted Screen: 20 - 35 ft.	21
247	22													22
246	23		SM	Silty fine SAND, few gravel, very dense, grey-brown, very slight petroleum odor	moist	196.2	22.5 -24		SS	50/6				23
245	24													24
244	25		SM	Silty fine SAND, very dense, grey-brown, very slight petroleum odor	moist	191.8	25 -26.5		SS	20				25
243	26									50/6				26
242	27		SM	Silty fine SAND, very dense, grey-brown, slight petroleum odor	moist	16.9	27.5 -29		SS	22				27
241	28									50/6				28
240	29													29
239	30		SM	Silty fine SAND, very dense, grey-brown, slight petroleum odor	moist	14.5	30 -31.5		SS	20				30
238	31									40				31
237	32									50/3				32
236	33													33
235	34													34
234	35		SM	Silty fine SAND, very dense, grey-brown, no petroleum odor	moist	9.1	34.5 -35		SS	50/4				35
233	36			Sampling end at 35 ft. bgs; well installed to 35 ft. bgs.										36
232	37													37
231	38													38
230	39													39
229	40													40

HA = Hand Auger
SS = Split Spoon

Project Name					Well Number / Well ID	
Former BP Facility #11060		Monitoring Well Construction Log			MW-16 / BPR 764	
Address		Drilling Contractor	Ground Surface Elevation:		Top of Casing Elevation:	
4580 Fauntleroy Way		Cascade Drilling	268.32		268.03	
Seattle Washington		Drilling Method	Boring Depth		Boring Diameter	
		Air Knife / Hollow Stem Auger	35 ft.		4 in.	
Logged By	Approved By	Sampling Method	Well Depth	Casing Type	Well Screen Interval	Slot Size
D. Lindelof	J. Leurquin	Hand Auger / Split Spoon	35 ft.	2" SCH 40 PVC	20 - 35 ft.	0.010
Antea Group Project Number		Headspace Monitoring Device	Date Drilling Started / Completed		Sand Pack Interval	
WA-0011060		PID	12/18/2023 - 12/21/2023		18 - 35 ft.	

LITHOLOGY
SAMPLING DATA
WELL DATA

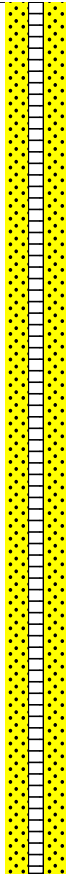
Elevation	Depth	Graphic Log	USCS	Visual Description	Moisture Content	Headspace (ppm)	Soil Recovery Interval (ft)	Lab Analysis	Sampling Method	Density / Blows	Water Level	Well Diagram	Well Details	Depth
268	0			Concrete									Concrete Pad with Well Vault: 0 - 2 ft.	0
267	1		SM	Fine to coarse SAND with silt, medium dense, brown, no petroleum odor	moist	0.0	0.75-1.25		HA	NA				1
266	2													2
265	3		SM	Silty SAND, medium dense, brown, no petroleum odor	moist	0.0	2.75-3.25		HA				Hydrated Bentonite Chips: 2 - 13 ft.	3
264	4													4
263	5			same as above	moist	0.4	4.75-5.25		HA				2" SCH40 Blank PVC Casing: 0 - 15 ft.	5
262	6													6
261	7		ML	SILT, some fine sand, medium stiff, medium plasticity, grey, no petroleum odor	moist	0.1	7.5- 9		SS	7 10 12				7
260	8													8
259	9													9
258	10		ML	SILT, some fine sand, stiff, medium plasticity, grey, no petroleum odor	moist	0.0	10- 11.5		SS					10
257	11													11
256	12													12
255	13				moist	0.0	12.5 -14		SS	12 25 25				13
254	14													14
253	15			same as above	moist	1.3	15- 16.5		SS	25 50/6				15
252	16													16
251	17													17
250	18		SM	Silty fine SAND, very dense, grey, no petroleum odor	moist	0.7	17.5 -19		SS	25 28 50/3			Sand Pack: 18 - 35 ft.	18
249	19													19
	20													20

HA = Hand Auger
SS = Split Spoon

Project Name Former BP Facility #11060		Monitoring Well Construction Log		Well Number / Well ID MW-16 / BPR 764	
Address 4580 Fauntleroy Way Seattle Washington	Drilling Contractor Cascade Drilling		Ground Surface Elevation: 268.32		Top of Casing Elevation: 268.03
	Drilling Method Air Knife / Hollow Stem Auger		Boring Depth 35 ft.		Boring Diameter 4 in.
Logged By D. Lindelof	Approved By J. Leurquin	Sampling Method Hand Auger / Split Spoon	Well Depth 35 ft.	Casing Type 2" SCH 40 PVC	Well Screen Interval 20 - 35 ft.
Antea Group Project Number WA-0011060		Headspace Monitoring Device PID	Date Drilling Started / Completed 12/18/2023 - 12/21/2023		Slot Size 0.010
		Date Drilling Started / Completed 12/18/2023 - 12/21/2023		Sand Pack Interval 18 - 35 ft.	

LITHOLOGY
SAMPLING DATA
WELL DATA

Elevation	Depth	Graphic Log	USCS	Visual Description	Moisture Content	Headspace (ppm)	Soil Recovery Interval (ft)	Lab Analysis	Sampling Method	Density / Blows	Water Level	Well Diagram	Well Details	Depth

248	21		SM	Silty fine SAND, very dense, grey no petroleum odor	moist	1.2	20 -21.5		SS	29			2" SCH 40 PVC Casing with 0.010 Slotted Screen: 20 - 35 ft.	21
247	22									50/3				22
246	23		SM	Silty fine SAND, very dense, grey-brown, no petroleum odor	moist	0.9	22.5 -24		SS	50/6				23
245	24													24
244	25		SM	Silty fine SAND, very dense, brown, no petroleum odor	moist	0.3	25 -26.5		SS	50/6				25
243	26													26
242	27													27
241	28			same as above	moist	0.1	27.5 -29		SS	50/6				28
240	29													29
239	30		SM	Silty fine SAND, very dense, brown, no petroleum odor, dilatant	moist	0.0	30- 30.5		SS	50/6				30
238	31			Sampling end at 30.5 ft. bgs; well installed to 35 ft bgs.	-wet									31
237	32													32
236	33													33
235	34													34
234	35													35
233	36													36
232	37													37
231	38													38
230	39													39
229	40													40

HA = Hand Auger
SS = Split Spoon

Appendix B - Summary of Field Procedures and Quality Assurance Plan

FIELD PROCEDURES

Prior to both the September and December events during this subsurface investigation, the boring locations were marked, and the Utility Underground Location Center was contacted at least 72 hours before the Site walk was scheduled. A Site walk was conducted to visually inspect utility markers and indicators. Applied Professional Services, Inc. (APS) of North Bend, Washington was utilized to identify private subsurface utilities. APS swept a search zone of 15 feet in all directions surrounding the proposed boring locations. APS uses Metrotech 810 multi-frequency locators to identify conductive subsurface utilities and a ground penetrating radar (GPR) to detect utility anomalies in the subsurface. All utilities were marked in paint and recorded on a drawing/plot plan.

Prior to drilling, each boring location was cleared to a depth of at least 6.5 feet below ground surface (bgs) and 120 percent of the drilling tool diameter with a hand auger. Following utility clearing, borings SB-7 and SB-8 were advanced using a sonic drilling rig operated by Cascade Drilling, L.P. (Cascade). Boring SB-9 and monitoring wells MW-13 through MW-16 were advanced using a limited access hollow stem auger drill rig operated by Cascade. Discrete soil samples were collected from each boring to characterize site soils with respect to petroleum hydrocarbon impacts.

For shallow soil samples collected during borehole pre-clearance, Cascade would utilize a hand auger to extend the boring to the desired depth. The hand auger was decontaminated between each sample. After collecting the shallow sample(s), Cascade continued to widen and clear the boring to 6.5 feet bgs. Soil samples at depths greater than 6.5 feet bgs were collected from the applicable drill rig. Sonic drill rig soil samples were directly deposited from the sonic core sampler to clean, single-use plastic. Hollow stem auger drill rig samples were collected by split spoon samplers and directly deposited into clean, single-use plastic bags. Soil samples were observed and collected for laboratory analysis.

Laboratory samples were collected from plastic sleeve or plastic bag using a single-use syringe sampler and placed into laboratory-supplied 40-milliliter (mL) VOA vials preserved with methanol in accordance with Environmental Protection Agency (EPA) Method 5035A. Additional soil was placed into 4 to 8-ounce laboratory-supplied glass soil jars. The samples were labeled and immediately placed in cold storage until submitted to the laboratory for analysis. The samples were transported to Eurofins Frontier Global Services, LLC of Tacoma, Washington (Eurofins) for quantitative chemical analysis following chain-of-custody documentation.

After sample collection, soil was field screened for the presence of volatile organic compounds with a photoionization detector (PID) to aid in the selection of representative soil samples for chemical analysis. The PID was a RAE Systems MiniRAE 3000 PID equipped with a 10.6 electron volt (eV) ultraviolet (UV) lamp and calibrated to a 100-ppm isobutylene calibration gas for direct readings in parts per million (ppm). The operating range of the detector is from 0 to 15,000 parts per million with a minimum detection limit of 0.1 ppm. It should be noted that the PID measurements are considered semi-quantitative data since the instrument detects all organic compounds with ionization potentials less than 10.2 eV. Clear plastic bags were filled to one-third to half capacity and then sealed. Soils in the bags were gently agitated to facilitate the breakup of any lumps and allowed to sit for approximately 10 minutes prior to analyzing the air above the soil in the bag. The PID probe was inserted into an opening of the plastic bag and the maximum vapor concentration was recorded for each soil sample collected.

QUALITY ASSURANCE PLAN

SAMPLE IDENTIFICATION AND CHAIN-OF-CUSTODY PROCEDURES

Sample identification and chain-of-custody procedures ensure sample integrity and document sample possession from the time of collection to delivery to the laboratory. Each sample submitted for analysis was labeled and identified with the project number, date and time of sample collection, sampler, and sample number unique to the sample. This information, in addition to any field measurements, noted names of on-site personnel, and any other pertinent field observations were recorded in the field notes.

Upon arrival at the laboratory, the sample control personnel at the laboratory verified sample integrity and confirmed that the sample was collected in the proper container, packaged correctly, and that there was adequate volume of sample for the required analyses. The laboratory assigned a unique log number for identification of each sample throughout analyses and reporting. The log number was recorded on the chain of custody form and in the legally required logbook maintained in the laboratory. The sample description, date received, client name, and any other relevant information was recorded.

ANALYTICAL QUALITY ASSURANCE

In addition to routine calibration of the analytical instruments with standards and blanks, the analyst is required to run duplicates and spikes on 10 percent of the analyses to insure an added measure of precision and accuracy. Accuracy is also verified through the following:

- U.S. Environmental Protection Agency (EPA) and State certification programs.
- Participation in an inter-laboratory or "round-robin" quality assurance program.
- Verification of results with an alternative method. For example, calcium may be determined by atomic absorption, ion chromatography, or titrimetric methods.

ANALYTICAL METHODS

The analytical tests performed for this evaluation were chosen based upon standard requirements issued by the Washington State Department of Ecology. Select soil samples collected during this investigation were analyzed by the following methods:

- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 8260D;
- Methyl tert-Butyl Ether (MTBE) by EPA Method 8260D
- Total petroleum hydrocarbons as gasoline (TPH-G) by Northwest Method NWTPH-Gx;
- Total petroleum hydrocarbons as diesel (TPH-D) and total petroleum hydrocarbons as oil (TPH-O) by Northwest Method NWTPH-Dx;
- Naphthalenes by EPA Method 8270 SIM; and
- Total Lead by EPA 6020A.
- RCRA 8 Metals by EPA Method 6020 and 7471 (waste characterization only)

Appendix C - Waste Disposal Forms

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

499430

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number WAVSQG	2. Page 1 of 2	3. Emergency Response Phone 888-785-7225	4. Waste Tracking Number 455534/D554180
5. Generator's Name and Mailing Address Arco 11066, c/o Artea 18378-B Redmond Way Redmond, WA 98052 Generator's Phone: 509-438-3112			Generator's Site Address (if different than mailing address) Arco 11060 4580 Fauntleroy Way SW Seattle, WA 98126		
6. Transporter 1 Company Name Advanced Chemical Transport Inc./DBA ACTenviro			U.S. EPA ID Number CAR000070540		
7. Transporter 2 Company Name Chemical Waste Management of the Northwest			U.S. EPA ID Number ORD089452353		
8. Designated Facility Name and Site Address Chemical Waste Management of the Northwest 17629 Cedar Springs Lane Arlington, OR 97812 Facility's Phone: 541-454-2030			U.S. EPA ID Number ORD089452353		
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1. Non-RCRA/Non-DOT Regulated Material Liquid (PURGE WATER)		2	DM	500	P
2.					
3.					
4.					
13. Special Handling Instructions and Additional Information Project Number 455534 Document #: D554180 1) OR351283 ARC- <u>2XDM55</u> <i>Waste</i> <i>980815</i>					
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Generator's/Officer's Printed/Typed Name <i>Nathaniel Han (Agent of Wade Melton)</i>				Signature <i>Nathaniel Han</i>	Month Day Year <i>8 9 23</i>
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name <i>Christopher Johnson</i>				Signature <i>Christopher Johnson</i>	Month Day Year <i>08 14 23</i>
Transporter 2 Printed/Typed Name <i>J.P.D.</i>				Signature <i>J.P.D.</i>	Month Day Year <i>9 7 23</i>
17. Discrepancy					
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection					
17b. Alternate Facility (or Generator) _____ U.S. EPA ID Number _____					
Facility's Phone: _____					
17c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____					
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a					
Printed/Typed Name <i>Dawn Dunlap</i>				Signature <i>Dawn Dunlap</i>	Month Day Year <i>9 12 23</i>

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

DESIGNATED FACILITY TO GENERATOR

Reorder Part# MANIFEST-C6NHW
913-897-6966

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

501841

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number WAVSQG	2. Page 1 of 2	3. Emergency Response Phone 888-785-7225	4. Waste Tracking Number 474029/D578772
5. Generator's Name and Mailing Address Arco 11060, c/o Antea 18378-B Redmond Way Redmond, WA 98052 Generator's Phone: 206-854-0399		Generator's Site Address (if different than mailing address) Arco 11060 4580 Fauntleroy Way SW Seattle, WA 98126			
6. Transporter 1 Company Name Advanced Chemical Transport Inc./DBA ACTenviro		U.S. EPA ID Number CAR000070540			
7. Transporter 2 Company Name Chemical Waste Management of the Northwest		U.S. EPA ID Number ORD089452353			
8. Designated Facility Name and Site Address Chemical Waste Management of the Northwest 17629 Cedar Springs Lane Arlington, OR 97812 Facility's Phone: 541-454-2030		U.S. EPA ID Number ORD089452353			
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1. Non-RCRA/Non-DOT Regulated Material Solid (SOIL CUTTINGS)		3.5	DM	3,250	P
2. BAS					
3.					
4.					
13. Special Handling Instructions and Additional Information Project Number 474029 Document #: D578772 1) OR357026 ARC-5X55PM WOMK4 970843					
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. Generator's/Officer's Printed/Typed Name Megan Richard - Authorized Delegate for BP Signature [Signature] Month 11 Day 2 Year 23					
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____ Transporter Signature (for exports only): _____					
16. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Brian Sanchez Signature [Signature] Month 11 Day 17 Year 23 Transporter 2 Printed/Typed Name J. RC Signature [Signature] Month 11 Day 30 Year 23					
17. Discrepancy 17a. Discrepancy Indication Space ☐ Quantity ☒ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection Drums 1-3 contain free liquids. Liquid is water OK to solidify per Kyle Satterthwaite/Met 12-11-23 Manifest Reference Number: _____ U.S. EPA ID Number _____ 17b. Alternate Facility (or Generator) _____ Facility's Phone: _____ 17c. Signature of Alternate Facility (or Generator) _____ Month _____ Day _____ Year _____					
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a Printed/Typed Name Morgan Wolf Signature [Signature] Month 12 Day 11 Year 23					

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

DESIGNATED FACILITY TO GENERATOR
BMS

Reorder Part# MANIFEST-C6NHW
913-897-6966

501841

NON-HAZARDOUS WASTE MANIFEST (Continuation Sheet)		19. Generator ID Number WAVSQQ	20. Page 2 of 2	21. Waste Tracking Number 474029/D578772		
22. Generator's Name Arco 11060 4580 Fauntleroy Way SW Seattle, WA 98126						
23. Transporter <u>3</u> Company Name Union Pacific Railroad			U.S. EPA ID Number NED001792910			
24. Transporter <u>4 PCC</u> Company Name			U.S. EPA ID Number ORQ0000041180			
GENERATOR	25. Waste Shipping Name and Description		26. Containers		27. Total Quantity	28. Unit Wt./Vol.
			No.	Type		
29. Special Handling Instructions and Additional Information work 970843						
TRANSPORTOR	30. Transporter <u>3</u> Acknowledgment of Receipt of Materials					
	Printed/Typed Name G. Oltheimer		Signature G.A.		Month Day Year 12/1/23	
DESIGNATED FACILITY	31. Transporter <u>4</u> Acknowledgment of Receipt of Materials					
	Printed/Typed Name		Signature		Month Day Year	
32. Discrepancy						

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

502926

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number WAVSQG	2. Page 1 of 2	3. Emergency Response Phone 888-785-7225	4. Waste Tracking Number D589374/482123	
5. Generator's Name and Mailing Address Arco 11060 c/o Antea 18378-B Redmond Way Redmond, WA 98052 Generator's Phone: 206-854-0399			Generator's Site Address (if different than mailing address) Arco 11060 4580 Fauntleroy Way SW Seattle, WA 98126			
6. Transporter 1 Company Name Advanced Chemical Transport Inc./DBA AC Teniro			U.S. EPA ID Number CAR000070540			
7. Transporter 2 Company Name Chemical Waste Management of the Northwest			U.S. EPA ID Number ORD089452353			
8. Designated Facility Name and Site Address Chemical Waste Management of the Northwest 17629 Cedar Springs Lane Arlington, OR 97812 Facility's Phone: 414-454-2030			U.S. EPA ID Number ORD089452353			
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
		No.	Type			
1. Non-RCRA/Non-DOT Regulated Material Solid (SOIL CUTTINGS)		5	DM	2550	P	
2. ~~Non-RCRA/Non-DOT Regulated Material Liquid (PURGE WATER)~~			DM		P	~~KN~~
3.						
4.						
13. Special Handling Instructions and Additional Information Project Number 482123 Document #: D589374 1) OR357026 ARC- 5x55 Bm 2) OR351283 ARC- KH Wmks 970944						
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. Generator's/Officer's Printed/Typed Name Megan Richard - Authorized Delegate for BP Signature MUR Month 12 Day 14 Year 23						
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____ Transporter Signature (for exports only): _____ Date leaving U.S.: _____						
16. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Kristen Halfert Signature [Signature] Month 12 Day 20 Year 23 Transporter 2 Printed/Typed Name g.r. Signature [Signature] Month 1 Day 4 Year 24						
17. Discrepancy 17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection Manifest Reference Number: _____ 17b. Alternate Facility (or Generator) U.S. EPA ID Number _____ Facility's Phone: _____ 17c. Signature of Alternate Facility (or Generator) Month _____ Day _____ Year _____						
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a Printed/Typed Name Morgan Wolf Signature MWOLF Month 10 Day 25 Year 24						

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

DESIGNATED FACILITY TO GENERATOR

Reorder Part# MANIFEST-C6NHW
913-897-6966

502921

NON-HAZARDOUS WASTE MANIFEST (Continuation Sheet)		19. Generator ID Number WAVSQG	20. Page 2 of 2	21. Waste Tracking Number D589374/482123		
22. Generator's Name Arco 11060 4580 Fauntleroy Way SW Seattle, WA 98126						
23. Transporter <u>3</u> Union Pacific Railroad				U.S. EPA ID Number NED001792910		
24. Transporter <u>H PCC</u> Company Name				U.S. EPA ID Number OR0000041180		
GENERATOR	25. Waste Shipping Name and Description		26. Containers		27. Total Quantity	28. Unit Wt./Vol.
			No.	Type		
29. Special Handling Instructions and Additional Information www 970944						
TRANSPORTOR	30. Transporter <u>3</u> Acknowledgment of Receipt of Materials					
	Printed/Typed Name <u>G Altheimer</u>		Signature <u>GA</u>		Month Day Year <u>1 4 24</u>	
DESIGNATED FACILITY	31. Transporter <u>4</u> Acknowledgment of Receipt of Materials					
	Printed/Typed Name		Signature		Month Day Year	
32. Discrepancy						

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

502927

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number WAVSQG	2. Page 1 of 2	3. Emergency Response Phone 888-785-7225	4. Waste Tracking Number 482127/D589377
5. Generator's Name and Mailing Address Arco 11060 c/o Antea 18378-B Redmond Way Redmond, WA 98052 206-854-0399			Generator's Site Address (if different than mailing address) Arco 11060 4580 Fauntleroy Way SW Seattle, WA 98126		
6. Transporter 1 Company Name Advanced Chemical Transport Inc./DBA ACTenviro			U.S. EPA ID Number CAR000070540		
7. Transporter 2 Company Name Chemical Waste Management of the Northwest			U.S. EPA ID Number ORD089452353		
8. Designated Facility Name and Site Address Chemical Waste Management of the Northwest 17629 Cedar Springs Lane Arlington, OR 97812			U.S. EPA ID Number ORD089452353		
Facility's Phone: 541-454-2030					
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1. Non-RCRA/Non-DOT Regulated Material Solid (SOIL CUTTINGS)		6	DM	4200	P
2. Non-RCRA/Non-DOT Regulated Material Liquid (PURGE WATER)		2	DM	1000	P
3.					
4.					
13. Special Handling Instructions and Additional Information Project Number 482127 Document #: D589377 1) OR357026 ARC- <u>6x0m</u> JT 2) OR351283 ARC- <u>2x0m</u> JT WUICK 970944					
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. Generator's/Officer's Printed/Typed Name Megan Richard - Authorized Delegate for BP Signature MKR Month 12 Day 14 Year 23					
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____ Transporter Signature (for exports only): _____ Date leaving U.S.: _____					
16. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Christopher Johnson Signature Ch Johnson Month 12 Day 22 Year 23 Transporter 2 Printed/Typed Name G. P. C. Signature G.P.C. Month 1 Day 4 Year 24					
17. Discrepancy 17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection Manifest Reference Number: _____ 17b. Alternate Facility (or Generator) U.S. EPA ID Number _____ Facility's Phone: _____ 17c. Signature of Alternate Facility (or Generator) Month _____ Day _____ Year _____					
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a Printed/Typed Name Morgan Wolf Signature MWOLF Month 01 Day 25 Year 24					

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

DESIGNATED FACILITY TO GENERATOR
BMS

Reorder Part# MANIFEST-C6NHW
913-897-6966

NON-HAZARDOUS WASTE MANIFEST
(Continuation Sheet)

19. Generator ID Number
WAVSQQ

20. Page
2 of 2

21. Waste Tracking Number
482127/D589377

22. Generator's Name
Arco 11060
4580 Fauntleroy Way SW
Seattle, WA 98126

23. Transporter 3 Company Name
Union Pacific Railroad

U.S. EPA ID Number
NED001792910

24. Transporter 4 PCC Company Name

U.S. EPA ID Number
ORQ000041180

25. Waste Shipping Name and Description

26. Containers

No.

Type

27. Total
Quantity

28. Unit
Wt./Vol.

29. Special Handling Instructions and Additional Information

Waste 970944

30. Transporter 3 Acknowledgment of Receipt of Materials

Printed/Typed Name

G. Alzheimer

Signature

GA

Month Day Year

1 4 24

31. Transporter 4 Acknowledgment of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

32. Discrepancy

GENERATOR

TRANSPORTER

DESIGNATED FACILITY

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

DESIGNATED FACILITY TO GENERATOR

Reorder Part# C6NHWCN
www.gclabels.com

504452

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number WAVSQG	2. Page 1 of 2	3. Emergency Response Phone 888 785 7225	4. Waste Tracking Number 491068/D600943	
5. Generator's Name and Mailing Address Arco 11060 c/o Antea 18378-B Redmond Way Redmond, WA 98052 Generator's Phone: 206-854-0399			Generator's Site Address (if different than mailing address) Arco 11060 4580 Fauntleroy Way SW Seattle, WA 98126			
6. Transporter 1 Company Name Advanced Chemical Transport Inc./DBA AC Tenviro			U.S. EPA ID Number CAR000070540			
7. Transporter 2 Company Name Chemical Waste Management of the Northwest			U.S. EPA ID Number ORD089452353			
8. Designated Facility Name and Site Address Chemical Waste Management of the Northwest 17629 Cedar Springs Lane Arlington, OR 97812 Facility's Phone: 541-454-2030			U.S. EPA ID Number ORD089452353			
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
		No.	Type			
1. Non-RCRA/Non-DOT Regulated Material Solid (SOIL CUTTINGS)		1	DM	600	P	
2. Non-RCRA/Non-DOT Regulated Material Liquid (PURGE WATER)		1	DM	325	P	
3.						
4.						
13. Special Handling Instructions and Additional Information Project Number 491068 Document #: D600943 1) - OR357026 ARC- 1x55DM 2) - OR351283 ARC- 1x55DM wuxu 980897						
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. Generator's/Officer's Printed/Typed Name Megan Richard - Authorized agent for AC Signature MUR Month 2 Day 1 Year 24						
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:						
16. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Brian Sanchez Signature [Signature] Month 2 Day 16 Year 24 Transporter 2 Printed/Typed Name [Signature] Signature [Signature] Month 2 Day 15 Year 24						
17. Discrepancy 17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection Manifest Reference Number: 17b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone: 17c. Signature of Alternate Facility (or Generator) Month Day Year						
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a Printed/Typed Name Morgan Wolf Signature [Signature] Month 10 Day 29 Year 24						

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

DESIGNATED FACILITY TO GENERATOR
NONFE

Reorder Part# MANIFEST-C6NHW
913-897-6966

504452

2

of 2

NON-HAZARDOUS WASTE MANIFEST
(Continuation Sheet)19. Generator ID Number
WAVSQG

21. Waste Tracking Number

491068/D600943

22. Generator's Name ARCO 11060

23. Transporter 3 Company Name

UNION PACIFIC RAIL ROAD

U.S. EPA ID Number NED001792910

24. Transporter 4 Company Name

PCC

U.S. EPA ID Number ORQ000041180

25. Waste Shipping Name and Description

26. Containers

No.

Type

27. Total
Quantity28. Unit
Wt./Vol.

6.

7.

8.

9.

10.

11.

12.

13.

14.

29. Special Handling Instructions and Additional Information
WMXU 98089730. Transporter 3 Acknowledgment of Receipt of Materials

Printed/Typed Name

G. Altheimer

Signature

GSA

Month Day Year

2 16 24

31. Transporter 4 Acknowledgment of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

32. Discrepancy

GENERATOR

TRANSPORTER

DESIGNATED FACILITY

Appendix D - Soil Laboratory Analytical Report and Chain-of-Custody

ANALYTICAL REPORT

PREPARED FOR

Attn: Megan Richard
Antea USA Inc.
18378-B Redmond Way
Redmond, Washington 98052
Generated 4/9/2024 3:04:10 PM Revision 1

JOB DESCRIPTION

BP - ARCO 11060

JOB NUMBER

580-132217-1

Eurofins Seattle

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northwest, LLC Project Manager.

Compliance Statement

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the BPLAMP Technical Specifications, applicable federal, state, local regulations and certification requirements as well as the methodologies as described in laboratory SOPs reviewed by the BPLAMP. This Laboratory Report is confidential and is intended for the sole use of Eurofins Environment Testing (USA) and its client. This report shall not be reproduced, except in full, without written permission from Eurofins Environment Testing (USA). The signature on the cover page extends to the case narrative and all the data and forms in the package. The Chain of Custody is included and is an integral part of this report.

Authorization



Authorized for release by
Katie Grant, Project Manager I
Katie.Grant@et.eurofinsus.com
(253)922-2310

Generated
4/9/2024 3:04:10 PM
Revision 1

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Detection Summary	6
Client Sample Results	8
Surrogate Summary	17
QC Sample Results	19
QC Association Summary	25
Lab Chronicle	29
Certification Summary	34
Method Summary	35
Sample Summary	36
Chain of Custody	37
Receipt Checklists	39
Prep Data	40



Definitions/Glossary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-132217-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Antea USA Inc.
Project: BP - ARCO 11060

Job ID: 580-132217-1

Job ID: 580-132217-1

Eurofins Seattle

Job Narrative 580-132217-1

Revision

Report units were changed and tot xylenes were added.

Receipt

The samples were received on 9/29/2023 4:38 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.1° C.

GC/MS VOA

Method NWTPH-Gx: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 580-439866 and 580-439970 and analytical batch 580-440241 recovered outside control limits for the following analytes: Gasoline. The associated samples are: SB-8-20_20230928 (580-132217-11), SB-8-25_20230928 (580-132217-12), (LCS 580-439970/4-A) and (LCSD 580-439970/5-A) Laboratory control sample / laboratory control sample duplicate (LCS/LCSD) percent recovery is in control for affected analytes.

Method NWTPH-Gx: The following sample was analyzed at reduced volume due to high concentrations of target analytes: SB-8-20_20230928 (580-132217-11). The calculation was performed using an initial volume adjustment rather than a dilution factor. The reporting limits have been elevated by the appropriate factor.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270E SIM: Surrogate recovery for the following sample was outside of acceptance limits: SB-8-10_20230928 (580-132217-9). There was insufficient sample to perform a re-extraction; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Eurofins Seattle

Detection Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-132217-1

Client Sample ID: SB-7-10_20230928

Lab Sample ID: 580-132217-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.011		0.0056	0.0018	mg/Kg	1	✱	8270E SIM	Total/NA
2-Methylnaphthalene	0.0088		0.0056	0.0023	mg/Kg	1	✱	8270E SIM	Total/NA
Lead	6.6		0.44	0.043	mg/Kg	10	✱	6020B	Total/NA

Client Sample ID: SB-7-20_20230928

Lab Sample ID: 580-132217-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline	130		5.5	0.79	mg/Kg	1	✱	NWTPH-Gx	Total/NA
Lead	2.3		0.39	0.037	mg/Kg	10	✱	6020B	Total/NA

Client Sample ID: SB-7-35_20230928

Lab Sample ID: 580-132217-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline	24		5.5	0.78	mg/Kg	1	✱	NWTPH-Gx	Total/NA
Lead	2.7		0.38	0.036	mg/Kg	10	✱	6020B	Total/NA

Client Sample ID: SB-8-4_20230928

Lab Sample ID: 580-132217-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	4.9		0.40	0.038	mg/Kg	10	✱	6020B	Total/NA

Client Sample ID: SB-8-10_20230928

Lab Sample ID: 580-132217-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.15		0.033	0.0062	mg/Kg	1	✱	8260D	Total/NA
Naphthalene	0.19		0.0059	0.0019	mg/Kg	1	✱	8270E SIM	Total/NA
2-Methylnaphthalene	0.013		0.0059	0.0024	mg/Kg	1	✱	8270E SIM	Total/NA
1-Methylnaphthalene	0.0098		0.0059	0.00075	mg/Kg	1	✱	8270E SIM	Total/NA
Lead	6.0		0.46	0.044	mg/Kg	10	✱	6020B	Total/NA

Client Sample ID: SB-8-15_20230928

Lab Sample ID: 580-132217-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.12		0.051	0.012	mg/Kg	1	✱	8260D	Total/NA
m-Xylene & p-Xylene	0.056		0.051	0.0091	mg/Kg	1	✱	8260D	Total/NA
Xylenes, Total	0.056		0.051	0.0091	mg/Kg	1	✱	8260D	Total/NA
Gasoline	180		5.1	0.73	mg/Kg	1	✱	NWTPH-Gx	Total/NA
Naphthalene	0.069		0.0055	0.0018	mg/Kg	1	✱	8270E SIM	Total/NA
2-Methylnaphthalene	0.030		0.0055	0.0022	mg/Kg	1	✱	8270E SIM	Total/NA
1-Methylnaphthalene	0.015		0.0055	0.00069	mg/Kg	1	✱	8270E SIM	Total/NA
#2 Diesel (C10-C24)	73		54	13	mg/Kg	1	✱	NWTPH-Dx	Total/NA
Lead	3.0		0.41	0.039	mg/Kg	10	✱	6020B	Total/NA

Client Sample ID: SB-8-20_20230928

Lab Sample ID: 580-132217-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.36		0.028	0.0054	mg/Kg	1	✱	8260D	Total/NA
Ethylbenzene	1.3		0.057	0.013	mg/Kg	1	✱	8260D	Total/NA
m-Xylene & p-Xylene	5.0		0.057	0.010	mg/Kg	1	✱	8260D	Total/NA
o-Xylene	2.4		0.057	0.0071	mg/Kg	1	✱	8260D	Total/NA
Toluene	0.46		0.085	0.019	mg/Kg	1	✱	8260D	Total/NA
Xylenes, Total	7.4		0.057	0.010	mg/Kg	1	✱	8260D	Total/NA
Gasoline	800 *1		61	8.7	mg/Kg	1	✱	NWTPH-Gx	Total/NA
Naphthalene	0.57		0.0057	0.0019	mg/Kg	1	✱	8270E SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Seattle

Detection Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-132217-1

Client Sample ID: SB-8-20_20230928 (Continued)

Lab Sample ID: 580-132217-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.22		0.0057	0.0023	mg/Kg	1	✳	8270E SIM	Total/NA
1-Methylnaphthalene	0.11		0.0057	0.00072	mg/Kg	1	✳	8270E SIM	Total/NA
Lead	7.0		0.44	0.042	mg/Kg	10	✳	6020B	Total/NA

Client Sample ID: SB-8-25_20230928

Lab Sample ID: 580-132217-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline	6.9	*1	5.3	0.76	mg/Kg	1	✳	NWTPH-Gx	Total/NA
Naphthalene	0.0086		0.0057	0.0019	mg/Kg	1	✳	8270E SIM	Total/NA
Lead	2.2		0.37	0.036	mg/Kg	10	✳	6020B	Total/NA

Client Sample ID: SB-8-30_20230928

Lab Sample ID: 580-132217-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.069		0.027	0.0051	mg/Kg	1	✳	8260D	Total/NA
Ethylbenzene	0.73		0.054	0.012	mg/Kg	1	✳	8260D	Total/NA
m-Xylene & p-Xylene	2.8		0.054	0.0096	mg/Kg	1	✳	8260D	Total/NA
o-Xylene	1.3		0.054	0.0068	mg/Kg	1	✳	8260D	Total/NA
Toluene	0.65		0.081	0.018	mg/Kg	1	✳	8260D	Total/NA
Xylenes, Total	4.1		0.054	0.0096	mg/Kg	1	✳	8260D	Total/NA
Gasoline	460		5.4	0.77	mg/Kg	1	✳	NWTPH-Gx	Total/NA
Naphthalene	0.084		0.0055	0.0018	mg/Kg	1	✳	8270E SIM	Total/NA
2-Methylnaphthalene	0.069		0.0055	0.0022	mg/Kg	1	✳	8270E SIM	Total/NA
1-Methylnaphthalene	0.034		0.0055	0.00069	mg/Kg	1	✳	8270E SIM	Total/NA
Lead	4.0		0.37	0.035	mg/Kg	10	✳	6020B	Total/NA

Client Sample ID: SB-8-35_20230928

Lab Sample ID: 580-132217-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.086		0.028	0.0054	mg/Kg	1	✳	8260D	Total/NA
Ethylbenzene	0.41		0.057	0.013	mg/Kg	1	✳	8260D	Total/NA
m-Xylene & p-Xylene	1.6		0.057	0.010	mg/Kg	1	✳	8260D	Total/NA
o-Xylene	0.66		0.057	0.0071	mg/Kg	1	✳	8260D	Total/NA
Toluene	0.50		0.085	0.019	mg/Kg	1	✳	8260D	Total/NA
Xylenes, Total	2.3		0.057	0.010	mg/Kg	1	✳	8260D	Total/NA
Gasoline	170		5.7	0.81	mg/Kg	1	✳	NWTPH-Gx	Total/NA
Naphthalene	0.050		0.0056	0.0018	mg/Kg	1	✳	8270E SIM	Total/NA
2-Methylnaphthalene	0.026		0.0056	0.0023	mg/Kg	1	✳	8270E SIM	Total/NA
1-Methylnaphthalene	0.012		0.0056	0.00070	mg/Kg	1	✳	8270E SIM	Total/NA
Lead	2.6		0.38	0.037	mg/Kg	10	✳	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Seattle

Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-132217-1

Client Sample ID: SB-7-10_20230928

Lab Sample ID: 580-132217-2

Date Collected: 09/28/23 14:35

Matrix: Solid

Date Received: 09/29/23 16:38

Percent Solids: 86.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	0.0046	mg/Kg	☆	10/04/23 16:50	10/05/23 04:34	1
Ethylbenzene	ND		0.048	0.011	mg/Kg	☆	10/04/23 16:50	10/05/23 04:34	1
MTBE	ND		0.048	0.0072	mg/Kg	☆	10/04/23 16:50	10/05/23 04:34	1
m-Xylene & p-Xylene	ND		0.048	0.0086	mg/Kg	☆	10/04/23 16:50	10/05/23 04:34	1
o-Xylene	ND		0.048	0.0060	mg/Kg	☆	10/04/23 16:50	10/05/23 04:34	1
Toluene	ND		0.072	0.016	mg/Kg	☆	10/04/23 16:50	10/05/23 04:34	1
Xylenes, Total	ND		0.048	0.0086	mg/Kg	☆	10/04/23 16:50	10/05/23 04:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120	10/04/23 16:50	10/05/23 04:34	1
Dibromofluoromethane (Surr)	100		80 - 120	10/04/23 16:50	10/05/23 04:34	1
1,2-Dichloroethane-d4 (Surr)	94		80 - 121	10/04/23 16:50	10/05/23 04:34	1
Toluene-d8 (Surr)	95		80 - 120	10/04/23 16:50	10/05/23 04:34	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		4.8	0.69	mg/Kg	☆	10/04/23 16:50	10/05/23 04:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		66 - 125	10/04/23 16:50	10/05/23 04:34	1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	0.011		0.0056	0.0018	mg/Kg	☆	10/02/23 11:56	10/04/23 01:50	1
2-Methylnaphthalene	0.0088		0.0056	0.0023	mg/Kg	☆	10/02/23 11:56	10/04/23 01:50	1
1-Methylnaphthalene	ND		0.0056	0.00071	mg/Kg	☆	10/02/23 11:56	10/04/23 01:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	89		57 - 145	10/02/23 11:56	10/04/23 01:50	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		54	13	mg/Kg	☆	10/10/23 12:30	10/17/23 00:00	1
Motor Oil (>C24-C36)	ND		54	19	mg/Kg	☆	10/10/23 12:30	10/17/23 00:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	98		50 - 150	10/10/23 12:30	10/17/23 00:00	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	6.6		0.44	0.043	mg/Kg	☆	10/03/23 15:31	10/04/23 19:10	10

Client Sample ID: SB-7-20_20230928

Lab Sample ID: 580-132217-4

Date Collected: 09/28/23 14:40

Matrix: Solid

Date Received: 09/29/23 16:38

Percent Solids: 93.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.028	0.0053	mg/Kg	☆	10/04/23 16:50	10/05/23 04:55	1
Ethylbenzene	ND		0.055	0.013	mg/Kg	☆	10/04/23 16:50	10/05/23 04:55	1
MTBE	ND		0.055	0.0083	mg/Kg	☆	10/04/23 16:50	10/05/23 04:55	1
m-Xylene & p-Xylene	ND		0.055	0.0098	mg/Kg	☆	10/04/23 16:50	10/05/23 04:55	1

Eurofins Seattle

Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-132217-1

Client Sample ID: SB-7-20_20230928

Lab Sample ID: 580-132217-4

Date Collected: 09/28/23 14:40

Matrix: Solid

Date Received: 09/29/23 16:38

Percent Solids: 93.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.055	0.0069	mg/Kg	☆	10/04/23 16:50	10/05/23 04:55	1
Toluene	ND		0.083	0.019	mg/Kg	☆	10/04/23 16:50	10/05/23 04:55	1
Xylenes, Total	ND		0.055	0.0098	mg/Kg	☆	10/04/23 16:50	10/05/23 04:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120	10/04/23 16:50	10/05/23 04:55	1
Dibromofluoromethane (Surr)	101		80 - 120	10/04/23 16:50	10/05/23 04:55	1
1,2-Dichloroethane-d4 (Surr)	93		80 - 121	10/04/23 16:50	10/05/23 04:55	1
Toluene-d8 (Surr)	99		80 - 120	10/04/23 16:50	10/05/23 04:55	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	130		5.5	0.79	mg/Kg	☆	10/04/23 16:50	10/05/23 04:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		66 - 125	10/04/23 16:50	10/05/23 04:55	1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.0053	0.0017	mg/Kg	☆	10/02/23 11:56	10/04/23 02:15	1
2-Methylnaphthalene	ND		0.0053	0.0022	mg/Kg	☆	10/02/23 11:56	10/04/23 02:15	1
1-Methylnaphthalene	ND		0.0053	0.00066	mg/Kg	☆	10/02/23 11:56	10/04/23 02:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	86		57 - 145	10/02/23 11:56	10/04/23 02:15	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		51	13	mg/Kg	☆	10/10/23 12:30	10/16/23 21:19	1
Motor Oil (>C24-C36)	ND		51	18	mg/Kg	☆	10/10/23 12:30	10/16/23 21:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	92		50 - 150	10/10/23 12:30	10/16/23 21:19	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.3		0.39	0.037	mg/Kg	☆	10/03/23 15:31	10/04/23 19:12	10

Client Sample ID: SB-7-35_20230928

Lab Sample ID: 580-132217-7

Date Collected: 09/28/23 15:45

Matrix: Solid

Date Received: 09/29/23 16:38

Percent Solids: 82.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.028	0.0052	mg/Kg	☆	10/04/23 16:50	10/05/23 05:16	1
Ethylbenzene	ND		0.055	0.013	mg/Kg	☆	10/04/23 16:50	10/05/23 05:16	1
MTBE	ND		0.055	0.0083	mg/Kg	☆	10/04/23 16:50	10/05/23 05:16	1
m-Xylene & p-Xylene	ND		0.055	0.0098	mg/Kg	☆	10/04/23 16:50	10/05/23 05:16	1
o-Xylene	ND		0.055	0.0069	mg/Kg	☆	10/04/23 16:50	10/05/23 05:16	1
Toluene	ND		0.083	0.019	mg/Kg	☆	10/04/23 16:50	10/05/23 05:16	1
Xylenes, Total	ND		0.055	0.0098	mg/Kg	☆	10/04/23 16:50	10/05/23 05:16	1

Eurofins Seattle

Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-132217-1

Client Sample ID: SB-7-35_20230928

Lab Sample ID: 580-132217-7

Date Collected: 09/28/23 15:45

Matrix: Solid

Date Received: 09/29/23 16:38

Percent Solids: 82.8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		80 - 120	10/04/23 16:50	10/05/23 05:16	1
Dibromofluoromethane (Surr)	100		80 - 120	10/04/23 16:50	10/05/23 05:16	1
1,2-Dichloroethane-d4 (Surr)	94		80 - 121	10/04/23 16:50	10/05/23 05:16	1
Toluene-d8 (Surr)	97		80 - 120	10/04/23 16:50	10/05/23 05:16	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	24		5.5	0.78	mg/Kg	☆	10/04/23 16:50	10/05/23 05:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		66 - 125	10/04/23 16:50	10/05/23 05:16	1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.0060	0.0019	mg/Kg	☆	10/02/23 11:56	10/04/23 02:39	1
2-Methylnaphthalene	ND		0.0060	0.0025	mg/Kg	☆	10/02/23 11:56	10/04/23 02:39	1
1-Methylnaphthalene	ND		0.0060	0.00076	mg/Kg	☆	10/02/23 11:56	10/04/23 02:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	91		57 - 145	10/02/23 11:56	10/04/23 02:39	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		58	14	mg/Kg	☆	10/10/23 12:30	10/16/23 22:40	1
Motor Oil (>C24-C36)	ND		58	20	mg/Kg	☆	10/10/23 12:30	10/16/23 22:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	96		50 - 150	10/10/23 12:30	10/16/23 22:40	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.7		0.38	0.036	mg/Kg	☆	10/03/23 15:31	10/04/23 19:15	10

Client Sample ID: SB-8-4_20230928

Lab Sample ID: 580-132217-8

Date Collected: 09/28/23 09:30

Matrix: Solid

Date Received: 09/29/23 16:38

Percent Solids: 88.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.018	0.0035	mg/Kg	☆	10/04/23 16:50	10/05/23 05:58	1
Ethylbenzene	ND		0.037	0.0083	mg/Kg	☆	10/04/23 16:50	10/05/23 05:58	1
MTBE	ND		0.037	0.0055	mg/Kg	☆	10/04/23 16:50	10/05/23 05:58	1
m-Xylene & p-Xylene	ND		0.037	0.0065	mg/Kg	☆	10/04/23 16:50	10/05/23 05:58	1
o-Xylene	ND		0.037	0.0046	mg/Kg	☆	10/04/23 16:50	10/05/23 05:58	1
Toluene	ND		0.055	0.012	mg/Kg	☆	10/04/23 16:50	10/05/23 05:58	1
Xylenes, Total	ND		0.037	0.0065	mg/Kg	☆	10/04/23 16:50	10/05/23 05:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		80 - 120	10/04/23 16:50	10/05/23 05:58	1
Dibromofluoromethane (Surr)	100		80 - 120	10/04/23 16:50	10/05/23 05:58	1
1,2-Dichloroethane-d4 (Surr)	97		80 - 121	10/04/23 16:50	10/05/23 05:58	1
Toluene-d8 (Surr)	95		80 - 120	10/04/23 16:50	10/05/23 05:58	1

Eurofins Seattle

Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-132217-1

Client Sample ID: SB-8-4_20230928

Lab Sample ID: 580-132217-8

Date Collected: 09/28/23 09:30

Matrix: Solid

Date Received: 09/29/23 16:38

Percent Solids: 88.6

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		3.7	0.52	mg/Kg	☆	10/04/23 16:50	10/05/23 05:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		66 - 125				10/04/23 16:50	10/05/23 05:58	1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.0055	0.0018	mg/Kg	☆	10/02/23 11:56	10/04/23 03:03	1
2-Methylnaphthalene	ND		0.0055	0.0023	mg/Kg	☆	10/02/23 11:56	10/04/23 03:03	1
1-Methylnaphthalene	ND		0.0055	0.00069	mg/Kg	☆	10/02/23 11:56	10/04/23 03:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Terphenyl-d14	92		57 - 145				10/02/23 11:56	10/04/23 03:03	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		54	13	mg/Kg	☆	10/10/23 12:30	10/16/23 22:00	1
Motor Oil (>C24-C36)	ND		54	19	mg/Kg	☆	10/10/23 12:30	10/16/23 22:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	91		50 - 150				10/10/23 12:30	10/16/23 22:00	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	4.9		0.40	0.038	mg/Kg	☆	10/03/23 15:31	10/04/23 19:18	10

Client Sample ID: SB-8-10_20230928

Lab Sample ID: 580-132217-9

Date Collected: 09/28/23 16:35

Matrix: Solid

Date Received: 09/29/23 16:38

Percent Solids: 79.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.15		0.033	0.0062	mg/Kg	☆	10/04/23 16:50	10/05/23 06:19	1
Ethylbenzene	ND		0.066	0.015	mg/Kg	☆	10/04/23 16:50	10/05/23 06:19	1
MTBE	ND		0.066	0.0098	mg/Kg	☆	10/04/23 16:50	10/05/23 06:19	1
m-Xylene & p-Xylene	ND		0.066	0.012	mg/Kg	☆	10/04/23 16:50	10/05/23 06:19	1
o-Xylene	ND		0.066	0.0082	mg/Kg	☆	10/04/23 16:50	10/05/23 06:19	1
Toluene	ND		0.098	0.022	mg/Kg	☆	10/04/23 16:50	10/05/23 06:19	1
Xylenes, Total	ND		0.066	0.012	mg/Kg	☆	10/04/23 16:50	10/05/23 06:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		80 - 120				10/04/23 16:50	10/05/23 06:19	1
Dibromofluoromethane (Surr)	102		80 - 120				10/04/23 16:50	10/05/23 06:19	1
1,2-Dichloroethane-d4 (Surr)	93		80 - 121				10/04/23 16:50	10/05/23 06:19	1
Toluene-d8 (Surr)	95		80 - 120				10/04/23 16:50	10/05/23 06:19	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		6.6	0.94	mg/Kg	☆	10/04/23 16:50	10/05/23 06:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		66 - 125				10/04/23 16:50	10/05/23 06:19	1

Eurofins Seattle

Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-132217-1

Client Sample ID: SB-8-10_20230928

Lab Sample ID: 580-132217-9

Date Collected: 09/28/23 16:35

Matrix: Solid

Date Received: 09/29/23 16:38

Percent Solids: 79.9

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	0.19		0.0059	0.0019	mg/Kg	☆	10/02/23 11:56	10/04/23 03:27	1
2-Methylnaphthalene	0.013		0.0059	0.0024	mg/Kg	☆	10/02/23 11:56	10/04/23 03:27	1
1-Methylnaphthalene	0.0098		0.0059	0.00075	mg/Kg	☆	10/02/23 11:56	10/04/23 03:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Terphenyl-d14	50	S1-	57 - 145				10/02/23 11:56	10/04/23 03:27	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		60	15	mg/Kg	☆	10/10/23 12:30	10/16/23 23:40	1
Motor Oil (>C24-C36)	ND		60	21	mg/Kg	☆	10/10/23 12:30	10/16/23 23:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	91		50 - 150				10/10/23 12:30	10/16/23 23:40	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	6.0		0.46	0.044	mg/Kg	☆	10/03/23 15:31	10/04/23 19:21	10

Client Sample ID: SB-8-15_20230928

Lab Sample ID: 580-132217-10

Date Collected: 09/28/23 16:55

Matrix: Solid

Date Received: 09/29/23 16:38

Percent Solids: 88.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.026	0.0049	mg/Kg	☆	10/04/23 16:50	10/05/23 06:40	1
Ethylbenzene	0.12		0.051	0.012	mg/Kg	☆	10/04/23 16:50	10/05/23 06:40	1
MTBE	ND		0.051	0.0077	mg/Kg	☆	10/04/23 16:50	10/05/23 06:40	1
m-Xylene & p-Xylene	0.056		0.051	0.0091	mg/Kg	☆	10/04/23 16:50	10/05/23 06:40	1
o-Xylene	ND		0.051	0.0064	mg/Kg	☆	10/04/23 16:50	10/05/23 06:40	1
Toluene	ND		0.077	0.017	mg/Kg	☆	10/04/23 16:50	10/05/23 06:40	1
Xylenes, Total	0.056		0.051	0.0091	mg/Kg	☆	10/04/23 16:50	10/05/23 06:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		80 - 120				10/04/23 16:50	10/05/23 06:40	1
Dibromofluoromethane (Surr)	101		80 - 120				10/04/23 16:50	10/05/23 06:40	1
1,2-Dichloroethane-d4 (Surr)	95		80 - 121				10/04/23 16:50	10/05/23 06:40	1
Toluene-d8 (Surr)	100		80 - 120				10/04/23 16:50	10/05/23 06:40	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	180		5.1	0.73	mg/Kg	☆	10/04/23 16:50	10/05/23 06:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		66 - 125				10/04/23 16:50	10/05/23 06:40	1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	0.069		0.0055	0.0018	mg/Kg	☆	10/02/23 11:56	10/04/23 03:52	1
2-Methylnaphthalene	0.030		0.0055	0.0022	mg/Kg	☆	10/02/23 11:56	10/04/23 03:52	1
1-Methylnaphthalene	0.015		0.0055	0.00069	mg/Kg	☆	10/02/23 11:56	10/04/23 03:52	1

Eurofins Seattle

Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-132217-1

Client Sample ID: SB-8-15_20230928

Lab Sample ID: 580-132217-10

Date Collected: 09/28/23 16:55

Matrix: Solid

Date Received: 09/29/23 16:38

Percent Solids: 88.9

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	78		57 - 145	10/02/23 11:56	10/04/23 03:52	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	73		54	13	mg/Kg	☆	10/10/23 12:30	10/16/23 23:00	1
Motor Oil (>C24-C36)	ND		54	19	mg/Kg	☆	10/10/23 12:30	10/16/23 23:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	94		50 - 150	10/10/23 12:30	10/16/23 23:00	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3.0		0.41	0.039	mg/Kg	☆	10/03/23 15:31	10/04/23 19:23	10

Client Sample ID: SB-8-20_20230928

Lab Sample ID: 580-132217-11

Date Collected: 09/28/23 16:45

Matrix: Solid

Date Received: 09/29/23 16:38

Percent Solids: 84.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.36		0.028	0.0054	mg/Kg	☆	10/04/23 16:50	10/05/23 07:01	1
Ethylbenzene	1.3		0.057	0.013	mg/Kg	☆	10/04/23 16:50	10/05/23 07:01	1
MTBE	ND		0.057	0.0085	mg/Kg	☆	10/04/23 16:50	10/05/23 07:01	1
m-Xylene & p-Xylene	5.0		0.057	0.010	mg/Kg	☆	10/04/23 16:50	10/05/23 07:01	1
o-Xylene	2.4		0.057	0.0071	mg/Kg	☆	10/04/23 16:50	10/05/23 07:01	1
Toluene	0.46		0.085	0.019	mg/Kg	☆	10/04/23 16:50	10/05/23 07:01	1
Xylenes, Total	7.4		0.057	0.010	mg/Kg	☆	10/04/23 16:50	10/05/23 07:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120	10/04/23 16:50	10/05/23 07:01	1
Dibromofluoromethane (Surr)	104		80 - 120	10/04/23 16:50	10/05/23 07:01	1
1,2-Dichloroethane-d4 (Surr)	96		80 - 121	10/04/23 16:50	10/05/23 07:01	1
Toluene-d8 (Surr)	105		80 - 120	10/04/23 16:50	10/05/23 07:01	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	800	*1	61	8.7	mg/Kg	☆	10/04/23 16:50	10/09/23 13:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		66 - 125	10/04/23 16:50	10/09/23 13:37	1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	0.57		0.0057	0.0019	mg/Kg	☆	10/02/23 11:56	10/04/23 04:16	1
2-Methylnaphthalene	0.22		0.0057	0.0023	mg/Kg	☆	10/02/23 11:56	10/04/23 04:16	1
1-Methylnaphthalene	0.11		0.0057	0.00072	mg/Kg	☆	10/02/23 11:56	10/04/23 04:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	61		57 - 145	10/02/23 11:56	10/04/23 04:16	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		57	14	mg/Kg	☆	10/10/23 12:30	10/16/23 21:39	1

Eurofins Seattle

Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-132217-1

Client Sample ID: SB-8-20_20230928

Lab Sample ID: 580-132217-11

Date Collected: 09/28/23 16:45

Matrix: Solid

Date Received: 09/29/23 16:38

Percent Solids: 84.0

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil (>C24-C36)	ND		57	20	mg/Kg	☆	10/10/23 12:30	10/16/23 21:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	93		50 - 150	10/10/23 12:30	10/16/23 21:39	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	7.0		0.44	0.042	mg/Kg	☆	10/03/23 15:31	10/04/23 19:26	10

Client Sample ID: SB-8-25_20230928

Lab Sample ID: 580-132217-12

Date Collected: 09/28/23 17:10

Matrix: Solid

Date Received: 09/29/23 16:38

Percent Solids: 84.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.027	0.0051	mg/Kg	☆	10/04/23 16:50	10/05/23 07:22	1
Ethylbenzene	ND		0.053	0.012	mg/Kg	☆	10/04/23 16:50	10/05/23 07:22	1
MTBE	ND		0.053	0.0080	mg/Kg	☆	10/04/23 16:50	10/05/23 07:22	1
m-Xylene & p-Xylene	ND		0.053	0.0095	mg/Kg	☆	10/04/23 16:50	10/05/23 07:22	1
o-Xylene	ND		0.053	0.0067	mg/Kg	☆	10/04/23 16:50	10/05/23 07:22	1
Toluene	ND		0.080	0.018	mg/Kg	☆	10/04/23 16:50	10/05/23 07:22	1
Xylenes, Total	ND		0.053	0.0095	mg/Kg	☆	10/04/23 16:50	10/05/23 07:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		80 - 120	10/04/23 16:50	10/05/23 07:22	1
Dibromofluoromethane (Surr)	101		80 - 120	10/04/23 16:50	10/05/23 07:22	1
1,2-Dichloroethane-d4 (Surr)	95		80 - 121	10/04/23 16:50	10/05/23 07:22	1
Toluene-d8 (Surr)	96		80 - 120	10/04/23 16:50	10/05/23 07:22	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	6.9	*1	5.3	0.76	mg/Kg	☆	10/04/23 16:50	10/09/23 13:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		66 - 125	10/04/23 16:50	10/09/23 13:16	1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	0.0086		0.0057	0.0019	mg/Kg	☆	10/02/23 11:56	10/04/23 04:40	1
2-Methylnaphthalene	ND		0.0057	0.0023	mg/Kg	☆	10/02/23 11:56	10/04/23 04:40	1
1-Methylnaphthalene	ND		0.0057	0.00072	mg/Kg	☆	10/02/23 11:56	10/04/23 04:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	88		57 - 145	10/02/23 11:56	10/04/23 04:40	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		57	14	mg/Kg	☆	10/10/23 12:30	10/16/23 23:20	1
Motor Oil (>C24-C36)	ND		57	20	mg/Kg	☆	10/10/23 12:30	10/16/23 23:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	97		50 - 150	10/10/23 12:30	10/16/23 23:20	1

Eurofins Seattle

Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-132217-1

Client Sample ID: SB-8-25_20230928

Lab Sample ID: 580-132217-12

Date Collected: 09/28/23 17:10

Matrix: Solid

Date Received: 09/29/23 16:38

Percent Solids: 84.4

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.2		0.37	0.036	mg/Kg	☆	10/04/23 10:05	10/04/23 19:51	10

Client Sample ID: SB-8-30_20230928

Lab Sample ID: 580-132217-13

Date Collected: 09/28/23 17:15

Matrix: Solid

Date Received: 09/29/23 16:38

Percent Solids: 85.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.069		0.027	0.0051	mg/Kg	☆	10/04/23 16:50	10/05/23 07:43	1
Ethylbenzene	0.73		0.054	0.012	mg/Kg	☆	10/04/23 16:50	10/05/23 07:43	1
MTBE	ND		0.054	0.0081	mg/Kg	☆	10/04/23 16:50	10/05/23 07:43	1
m-Xylene & p-Xylene	2.8		0.054	0.0096	mg/Kg	☆	10/04/23 16:50	10/05/23 07:43	1
o-Xylene	1.3		0.054	0.0068	mg/Kg	☆	10/04/23 16:50	10/05/23 07:43	1
Toluene	0.65		0.081	0.018	mg/Kg	☆	10/04/23 16:50	10/05/23 07:43	1
Xylenes, Total	4.1		0.054	0.0096	mg/Kg	☆	10/04/23 16:50	10/05/23 07:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120	10/04/23 16:50	10/05/23 07:43	1
Dibromofluoromethane (Surr)	103		80 - 120	10/04/23 16:50	10/05/23 07:43	1
1,2-Dichloroethane-d4 (Surr)	96		80 - 121	10/04/23 16:50	10/05/23 07:43	1
Toluene-d8 (Surr)	100		80 - 120	10/04/23 16:50	10/05/23 07:43	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	460		5.4	0.77	mg/Kg	☆	10/04/23 16:50	10/05/23 07:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		66 - 125	10/04/23 16:50	10/05/23 07:43	1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	0.084		0.0055	0.0018	mg/Kg	☆	10/02/23 11:56	10/04/23 05:04	1
2-Methylnaphthalene	0.069		0.0055	0.0022	mg/Kg	☆	10/02/23 11:56	10/04/23 05:04	1
1-Methylnaphthalene	0.034		0.0055	0.00069	mg/Kg	☆	10/02/23 11:56	10/04/23 05:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	81		57 - 145	10/02/23 11:56	10/04/23 05:04	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		57	14	mg/Kg	☆	10/10/23 12:30	10/16/23 20:59	1
Motor Oil (>C24-C36)	ND		57	20	mg/Kg	☆	10/10/23 12:30	10/16/23 20:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	94		50 - 150	10/10/23 12:30	10/16/23 20:59	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	4.0		0.37	0.035	mg/Kg	☆	10/04/23 10:05	10/04/23 20:29	10

Eurofins Seattle

Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-132217-1

Client Sample ID: SB-8-35_20230928

Lab Sample ID: 580-132217-14

Date Collected: 09/28/23 17:25

Matrix: Solid

Date Received: 09/29/23 16:38

Percent Solids: 84.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.086		0.028	0.0054	mg/Kg	☆	10/04/23 16:50	10/05/23 08:04	1
Ethylbenzene	0.41		0.057	0.013	mg/Kg	☆	10/04/23 16:50	10/05/23 08:04	1
MTBE	ND		0.057	0.0085	mg/Kg	☆	10/04/23 16:50	10/05/23 08:04	1
m-Xylene & p-Xylene	1.6		0.057	0.010	mg/Kg	☆	10/04/23 16:50	10/05/23 08:04	1
o-Xylene	0.66		0.057	0.0071	mg/Kg	☆	10/04/23 16:50	10/05/23 08:04	1
Toluene	0.50		0.085	0.019	mg/Kg	☆	10/04/23 16:50	10/05/23 08:04	1
Xylenes, Total	2.3		0.057	0.010	mg/Kg	☆	10/04/23 16:50	10/05/23 08:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		80 - 120	10/04/23 16:50	10/05/23 08:04	1
Dibromofluoromethane (Surr)	100		80 - 120	10/04/23 16:50	10/05/23 08:04	1
1,2-Dichloroethane-d4 (Surr)	96		80 - 121	10/04/23 16:50	10/05/23 08:04	1
Toluene-d8 (Surr)	98		80 - 120	10/04/23 16:50	10/05/23 08:04	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	170		5.7	0.81	mg/Kg	☆	10/04/23 16:50	10/05/23 08:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		66 - 125	10/04/23 16:50	10/05/23 08:04	1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	0.050		0.0056	0.0018	mg/Kg	☆	10/02/23 11:56	10/04/23 05:28	1
2-Methylnaphthalene	0.026		0.0056	0.0023	mg/Kg	☆	10/02/23 11:56	10/04/23 05:28	1
1-Methylnaphthalene	0.012		0.0056	0.00070	mg/Kg	☆	10/02/23 11:56	10/04/23 05:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	86		57 - 145	10/02/23 11:56	10/04/23 05:28	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		55	14	mg/Kg	☆	10/10/23 12:30	10/16/23 22:20	1
Motor Oil (>C24-C36)	ND		55	19	mg/Kg	☆	10/10/23 12:30	10/16/23 22:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	94		50 - 150	10/10/23 12:30	10/16/23 22:20	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.6		0.38	0.037	mg/Kg	☆	10/04/23 10:05	10/04/23 20:31	10

Eurofins Seattle

Surrogate Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-132217-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (80-120)	DBFM (80-120)	DCA (80-121)	TOL (80-120)
580-132217-2	SB-7-10_20230928	102	100	94	95
580-132217-4	SB-7-20_20230928	102	101	93	99
580-132217-7	SB-7-35_20230928	103	100	94	97
580-132217-8	SB-8-4_20230928	104	100	97	95
580-132217-9	SB-8-10_20230928	103	102	93	95
580-132217-10	SB-8-15_20230928	104	101	95	100
580-132217-11	SB-8-20_20230928	102	104	96	105
580-132217-12	SB-8-25_20230928	104	101	95	96
580-132217-13	SB-8-30_20230928	102	103	96	100
580-132217-14	SB-8-35_20230928	105	100	96	98
LCS 580-439866/2-A	Lab Control Sample	105	99	92	98
LCSD 580-439866/3-A	Lab Control Sample Dup	104	101	94	96
MB 580-439866/1-A	Method Blank	105	102	98	97

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (66-125)			
580-132217-2	SB-7-10_20230928	102			
580-132217-4	SB-7-20_20230928	102			
580-132217-7	SB-7-35_20230928	103			
580-132217-8	SB-8-4_20230928	104			
580-132217-9	SB-8-10_20230928	103			
580-132217-10	SB-8-15_20230928	104			
580-132217-11	SB-8-20_20230928	98			
580-132217-12	SB-8-25_20230928	97			
580-132217-13	SB-8-30_20230928	102			
580-132217-14	SB-8-35_20230928	105			
LCS 580-439866/4-A	Lab Control Sample	103			
LCS 580-439970/4-A	Lab Control Sample	97			
LCSD 580-439866/5-A	Lab Control Sample Dup	103			
LCSD 580-439970/5-A	Lab Control Sample Dup	100			
MB 580-439866/1-A	Method Blank	105			
MB 580-439970/1-A	Method Blank	97			

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Eurofins Seattle

Surrogate Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-132217-1

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TPHL (57-145)
580-132217-2	SB-7-10_20230928	89
580-132217-4	SB-7-20_20230928	86
580-132217-7	SB-7-35_20230928	91
580-132217-8	SB-8-4_20230928	92
580-132217-9	SB-8-10_20230928	50 S1-
580-132217-10	SB-8-15_20230928	78
580-132217-11	SB-8-20_20230928	61
580-132217-12	SB-8-25_20230928	88
580-132217-13	SB-8-30_20230928	81
580-132217-14	SB-8-35_20230928	86
580-132230-A-7-C MS	Matrix Spike	89
580-132230-A-7-D MSD	Matrix Spike Duplicate	88
LCS 580-439479/2-A	Lab Control Sample	85
LCSD 580-439479/3-A	Lab Control Sample Dup	85
MB 580-439479/1-A	Method Blank	86

Surrogate Legend

TPHL = Terphenyl-d14

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTPH (50-150)
580-132200-B-1-O DU	Duplicate	97
580-132217-2	SB-7-10_20230928	98
580-132217-4	SB-7-20_20230928	92
580-132217-7	SB-7-35_20230928	96
580-132217-8	SB-8-4_20230928	91
580-132217-9	SB-8-10_20230928	91
580-132217-10	SB-8-15_20230928	94
580-132217-11	SB-8-20_20230928	93
580-132217-12	SB-8-25_20230928	97
580-132217-13	SB-8-30_20230928	94
580-132217-14	SB-8-35_20230928	94
LCS 580-440372/2-A	Lab Control Sample	85
LCSD 580-440372/3-A	Lab Control Sample Dup	95
MB 580-440372/1-A	Method Blank	84

Surrogate Legend

OTPH = o-Terphenyl

QC Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-132217-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 580-439866/1-A

Matrix: Solid

Analysis Batch: 439901

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 439866

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.020	0.0038	mg/Kg		10/04/23 16:47	10/05/23 03:52	1
Ethylbenzene	ND		0.040	0.0091	mg/Kg		10/04/23 16:47	10/05/23 03:52	1
MTBE	ND		0.040	0.0060	mg/Kg		10/04/23 16:47	10/05/23 03:52	1
m-Xylene & p-Xylene	ND		0.040	0.0071	mg/Kg		10/04/23 16:47	10/05/23 03:52	1
o-Xylene	ND		0.040	0.0050	mg/Kg		10/04/23 16:47	10/05/23 03:52	1
Toluene	ND		0.060	0.014	mg/Kg		10/04/23 16:47	10/05/23 03:52	1
Xylenes, Total	ND		0.040	0.0071	mg/Kg		10/04/23 16:47	10/05/23 03:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		80 - 120	10/04/23 16:47	10/05/23 03:52	1
Dibromofluoromethane (Surr)	102		80 - 120	10/04/23 16:47	10/05/23 03:52	1
1,2-Dichloroethane-d4 (Surr)	98		80 - 121	10/04/23 16:47	10/05/23 03:52	1
Toluene-d8 (Surr)	97		80 - 120	10/04/23 16:47	10/05/23 03:52	1

Lab Sample ID: LCS 580-439866/2-A

Matrix: Solid

Analysis Batch: 439901

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 439866

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.800	0.831		mg/Kg		104	79 - 135
Ethylbenzene	0.800	0.809		mg/Kg		101	80 - 135
MTBE	0.800	0.744		mg/Kg		93	71 - 126
m-Xylene & p-Xylene	0.800	0.807		mg/Kg		101	80 - 132
o-Xylene	0.800	0.785		mg/Kg		98	80 - 132
Toluene	0.800	0.804		mg/Kg		101	75 - 125
Xylenes, Total	1.60	1.59		mg/Kg		100	80 - 128

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		80 - 120
Dibromofluoromethane (Surr)	99		80 - 120
1,2-Dichloroethane-d4 (Surr)	92		80 - 121
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: LCSD 580-439866/3-A

Matrix: Solid

Analysis Batch: 439901

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 439866

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.800	0.789		mg/Kg		99	79 - 135	5	20
Ethylbenzene	0.800	0.759		mg/Kg		95	80 - 135	6	20
MTBE	0.800	0.730		mg/Kg		91	71 - 126	2	20
m-Xylene & p-Xylene	0.800	0.754		mg/Kg		94	80 - 132	7	20
o-Xylene	0.800	0.735		mg/Kg		92	80 - 132	7	20
Toluene	0.800	0.755		mg/Kg		94	75 - 125	6	20
Xylenes, Total	1.60	1.49		mg/Kg		93	80 - 128	7	20

Eurofins Seattle

QC Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-132217-1

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

Lab Sample ID: LCSD 580-439866/3-A

Matrix: Solid

Analysis Batch: 439901

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 439866

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		80 - 120
Dibromofluoromethane (Surr)	101		80 - 120
1,2-Dichloroethane-d4 (Surr)	94		80 - 121
Toluene-d8 (Surr)	96		80 - 120

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Lab Sample ID: MB 580-439866/1-A

Matrix: Solid

Analysis Batch: 439897

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 439866

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		4.0	0.57	mg/Kg		10/04/23 16:47	10/05/23 03:52	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		66 - 125				10/04/23 16:47	10/05/23 03:52	1

Lab Sample ID: LCS 580-439866/4-A

Matrix: Solid

Analysis Batch: 439897

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 439866

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline	40.0	46.0		mg/Kg		115	80 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	103		66 - 125				

Lab Sample ID: LCSD 580-439866/5-A

Matrix: Solid

Analysis Batch: 439897

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 439866

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline	40.0	46.0		mg/Kg		115	80 - 120	0	10
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	103		66 - 125						

Lab Sample ID: MB 580-439970/1-A

Matrix: Solid

Analysis Batch: 440241

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 439970

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		4.0	0.57	mg/Kg		10/05/23 11:20	10/09/23 11:50	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		66 - 125				10/05/23 11:20	10/09/23 11:50	1

Eurofins Seattle

QC Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-132217-1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS) (Continued)

Lab Sample ID: LCS 580-439970/4-A

Matrix: Solid

Analysis Batch: 440241

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 439970

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline	40.0	45.0		mg/Kg		112	80 - 120
Surrogate	%Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	97		66 - 125				

Lab Sample ID: LCSD 580-439970/5-A

Matrix: Solid

Analysis Batch: 440241

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 439970

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline	40.0	34.3	*1	mg/Kg		86	80 - 120	27	10
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	100		66 - 125						

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 580-439479/1-A

Matrix: Solid

Analysis Batch: 439732

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 439479

Analysis Date: 10/1/23							Prep Date: 10/1/23		
Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Naphthalene	ND		0.0050	0.0016	mg/Kg		10/02/23 11:56	10/03/23 20:11	1
2-Methylnaphthalene	ND		0.0050	0.0021	mg/Kg		10/02/23 11:56	10/03/23 20:11	1
1-Methylnaphthalene	ND		0.0050	0.00063	mg/Kg		10/02/23 11:56	10/03/23 20:11	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
Terphenyl-d14	86		57 - 145				10/02/23 11:56	10/03/23 20:11	1

Lab Sample ID: LCS 580-439479/2-A

Matrix: Solid

Analysis Batch: 439732

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 439479

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Naphthalene	2.00	1.80		mg/Kg		90	65 - 120
2-Methylnaphthalene	2.00	1.89		mg/Kg		94	64 - 120
1-Methylnaphthalene	2.00	1.87		mg/Kg		94	64 - 120
Surrogate	%Recovery	LCS Qualifier	Limits				
Terphenyl-d14	85		57 - 145				

Lab Sample ID: LCSD 580-439479/3-A

Matrix: Solid

Analysis Batch: 439732

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 439479

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Naphthalene	2.00	1.90		mg/Kg		95	65 - 120	5	20
2-Methylnaphthalene	2.00	2.01		mg/Kg		100	64 - 120	6	20

Eurofins Seattle

QC Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-132217-1

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCSD 580-439479/3-A

Matrix: Solid

Analysis Batch: 439732

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 439479

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	2.00	1.99		mg/Kg		100	64 - 120	6	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
Terphenyl-d14	85		57 - 145						

Lab Sample ID: 580-132230-A-7-C MS

Matrix: Solid

Analysis Batch: 439732

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 439479

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier				Limits		
Naphthalene	ND		2.13	2.12		mg/Kg	☼	100	65 - 120		
2-Methylnaphthalene	ND		2.13	2.21		mg/Kg	☼	104	64 - 120		
1-Methylnaphthalene	ND		2.13	2.19		mg/Kg	☼	103	64 - 120		
Surrogate	MS	MS									
	%Recovery	Qualifier	Limits								
Terphenyl-d14	89		57 - 145								

Lab Sample ID: 580-132230-A-7-D MSD

Matrix: Solid

Analysis Batch: 439732

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 439479

Top Data: 100%											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limits
Naphthalene	ND		2.13	2.11		mg/Kg	☼	99	65 - 120	1	20
2-Methylnaphthalene	ND		2.13	2.19		mg/Kg	☼	103	64 - 120	1	20
1-Methylnaphthalene	ND		2.13	2.18		mg/Kg	☼	102	64 - 120	0	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Terphenyl-d14	88		57 - 145								

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-440372/1-A

Matrix: Solid

Analysis Batch: 441022

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 440372

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		50	12	mg/Kg		10/10/23 12:30	10/16/23 18:39	1
Motor Oil (>C24-C36)	ND		50	18	mg/Kg		10/10/23 12:30	10/16/23 18:39	1
Surrogate	%Recovery	MB Qualifier	Limits						
o-Terphenyl	84		50 - 150						

Lab Sample ID: LCS 580-440372/2-A

Matrix: Solid

Analysis Batch: 441022

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 440372

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
#2 Diesel (C10-C24)	500	422		mg/Kg		84	70 - 125		

Eurofins Seattle

QC Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-132217-1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 580-440372/2-A

Matrix: Solid

Analysis Batch: 441022

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 440372

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Motor Oil (>C24-C36)			500	469		mg/Kg		94	70 - 129		
Surrogate	LCS %Recovery	LCS Qualifier	Limits								
<i>o</i> -Terphenyl	85		50 - 150								

Lab Sample ID: LCSD 580-440372/3-A

Matrix: Solid

Analysis Batch: 441022

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 440372

			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
#2 Diesel (C10-C24)			500	452		mg/Kg		90	70 - 125	7	16
Motor Oil (>C24-C36)			500	494		mg/Kg		99	70 - 129	5	16
			LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits								
<i>o</i> -Terphenyl	95		50 - 150								

Lab Sample ID: 580-132200-B-1-O DU

Matrix: Solid

Analysis Batch: 441022

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 440372

Sample				DU				DU				RPD	
Analyte	Result	Qualifier		Result	Qualifier	Unit	D			RPD	Limit		
#2 Diesel (C10-C24)	ND			ND		mg/Kg	☼			NC	35		
Motor Oil (>C24-C36)	ND			ND		mg/Kg	☼			21	35		
DU			DU										
Surrogate	%Recovery	Qualifier	Limits										
o-Terphenyl	97		50 - 150										

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 580-439708/22-A

Matrix: Solid

Analysis Batch: 439911

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 439708

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.50	0.048	mg/Kg		10/03/23 15:31	10/04/23 18:29	10

Lab Sample ID: LCS 580-439708/23-A

Matrix: Solid

Analysis Batch: 439911

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 439708

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	50.0	50.0		mg/Kg		100	80 - 120

Lab Sample ID: LCSD 580-439708/24-A

Matrix: Solid

Analysis Batch: 439911

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 439708

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Lead	50.0	50.0		mg/Kg		100	80 - 120	0	20

Eurofins Seattle

QC Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-132217-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 580-439769/21-A
Matrix: Solid
Analysis Batch: 439911

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 439769

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.25	0.024	mg/Kg		10/04/23 10:05	10/04/23 19:48	5

Lab Sample ID: LCS 580-439769/22-A
Matrix: Solid
Analysis Batch: 439911

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 439769

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	50.0	49.8		mg/Kg		100	80 - 120

Lab Sample ID: LCSD 580-439769/23-A
Matrix: Solid
Analysis Batch: 439911

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 439769

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	50.0	55.4		mg/Kg		111	80 - 120	11	20

Lab Sample ID: 580-132217-12 MS
Matrix: Solid
Analysis Batch: 439911

Client Sample ID: SB-8-25_20230928
Prep Type: Total/NA
Prep Batch: 439769

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	2.2		39.6	42.5		mg/Kg	✱	102	80 - 120

Lab Sample ID: 580-132217-12 MSD
Matrix: Solid
Analysis Batch: 439911

Client Sample ID: SB-8-25_20230928
Prep Type: Total/NA
Prep Batch: 439769

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	2.2		37.0	40.8		mg/Kg	✱	104	80 - 120	4	20

Lab Sample ID: 580-132217-12 DU
Matrix: Solid
Analysis Batch: 439911

Client Sample ID: SB-8-25_20230928
Prep Type: Total/NA
Prep Batch: 439769

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	2.2		2.33		mg/Kg	✱	7	20

Eurofins Seattle

QC Association Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-132217-1

GC/MS VOA

Prep Batch: 439866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-132217-2	SB-7-10_20230928	Total/NA	Solid	5035	
580-132217-4	SB-7-20_20230928	Total/NA	Solid	5035	
580-132217-7	SB-7-35_20230928	Total/NA	Solid	5035	
580-132217-8	SB-8-4_20230928	Total/NA	Solid	5035	
580-132217-9	SB-8-10_20230928	Total/NA	Solid	5035	
580-132217-10	SB-8-15_20230928	Total/NA	Solid	5035	
580-132217-11	SB-8-20_20230928	Total/NA	Solid	5035	
580-132217-12	SB-8-25_20230928	Total/NA	Solid	5035	
580-132217-13	SB-8-30_20230928	Total/NA	Solid	5035	
580-132217-14	SB-8-35_20230928	Total/NA	Solid	5035	
MB 580-439866/1-A	Method Blank	Total/NA	Solid	5035	
LCS 580-439866/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 580-439866/4-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 580-439866/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	
LCSD 580-439866/5-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 439897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-132217-2	SB-7-10_20230928	Total/NA	Solid	NWTPH-Gx	439866
580-132217-4	SB-7-20_20230928	Total/NA	Solid	NWTPH-Gx	439866
580-132217-7	SB-7-35_20230928	Total/NA	Solid	NWTPH-Gx	439866
580-132217-8	SB-8-4_20230928	Total/NA	Solid	NWTPH-Gx	439866
580-132217-9	SB-8-10_20230928	Total/NA	Solid	NWTPH-Gx	439866
580-132217-10	SB-8-15_20230928	Total/NA	Solid	NWTPH-Gx	439866
580-132217-13	SB-8-30_20230928	Total/NA	Solid	NWTPH-Gx	439866
580-132217-14	SB-8-35_20230928	Total/NA	Solid	NWTPH-Gx	439866
MB 580-439866/1-A	Method Blank	Total/NA	Solid	NWTPH-Gx	439866
LCS 580-439866/4-A	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	439866
LCSD 580-439866/5-A	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	439866

Analysis Batch: 439901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-132217-2	SB-7-10_20230928	Total/NA	Solid	8260D	439866
580-132217-4	SB-7-20_20230928	Total/NA	Solid	8260D	439866
580-132217-7	SB-7-35_20230928	Total/NA	Solid	8260D	439866
580-132217-8	SB-8-4_20230928	Total/NA	Solid	8260D	439866
580-132217-9	SB-8-10_20230928	Total/NA	Solid	8260D	439866
580-132217-10	SB-8-15_20230928	Total/NA	Solid	8260D	439866
580-132217-11	SB-8-20_20230928	Total/NA	Solid	8260D	439866
580-132217-12	SB-8-25_20230928	Total/NA	Solid	8260D	439866
580-132217-13	SB-8-30_20230928	Total/NA	Solid	8260D	439866
580-132217-14	SB-8-35_20230928	Total/NA	Solid	8260D	439866
MB 580-439866/1-A	Method Blank	Total/NA	Solid	8260D	439866
LCS 580-439866/2-A	Lab Control Sample	Total/NA	Solid	8260D	439866
LCSD 580-439866/3-A	Lab Control Sample Dup	Total/NA	Solid	8260D	439866

Prep Batch: 439970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 580-439970/1-A	Method Blank	Total/NA	Solid	5035	
LCS 580-439970/4-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 580-439970/5-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Eurofins Seattle

QC Association Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-132217-1

GC/MS VOA

Analysis Batch: 440241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-132217-11	SB-8-20_20230928	Total/NA	Solid	NWTPH-Gx	439866
580-132217-12	SB-8-25_20230928	Total/NA	Solid	NWTPH-Gx	439866
MB 580-439970/1-A	Method Blank	Total/NA	Solid	NWTPH-Gx	439970
LCS 580-439970/4-A	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	439970
LCSD 580-439970/5-A	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	439970

GC/MS Semi VOA

Prep Batch: 439479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-132217-2	SB-7-10_20230928	Total/NA	Solid	3546	
580-132217-4	SB-7-20_20230928	Total/NA	Solid	3546	
580-132217-7	SB-7-35_20230928	Total/NA	Solid	3546	
580-132217-8	SB-8-4_20230928	Total/NA	Solid	3546	
580-132217-9	SB-8-10_20230928	Total/NA	Solid	3546	
580-132217-10	SB-8-15_20230928	Total/NA	Solid	3546	
580-132217-11	SB-8-20_20230928	Total/NA	Solid	3546	
580-132217-12	SB-8-25_20230928	Total/NA	Solid	3546	
580-132217-13	SB-8-30_20230928	Total/NA	Solid	3546	
580-132217-14	SB-8-35_20230928	Total/NA	Solid	3546	
MB 580-439479/1-A	Method Blank	Total/NA	Solid	3546	
LCS 580-439479/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 580-439479/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
580-132230-A-7-C MS	Matrix Spike	Total/NA	Solid	3546	
580-132230-A-7-D MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 439732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-132217-2	SB-7-10_20230928	Total/NA	Solid	8270E SIM	439479
580-132217-4	SB-7-20_20230928	Total/NA	Solid	8270E SIM	439479
580-132217-7	SB-7-35_20230928	Total/NA	Solid	8270E SIM	439479
580-132217-8	SB-8-4_20230928	Total/NA	Solid	8270E SIM	439479
580-132217-9	SB-8-10_20230928	Total/NA	Solid	8270E SIM	439479
580-132217-10	SB-8-15_20230928	Total/NA	Solid	8270E SIM	439479
580-132217-11	SB-8-20_20230928	Total/NA	Solid	8270E SIM	439479
580-132217-12	SB-8-25_20230928	Total/NA	Solid	8270E SIM	439479
580-132217-13	SB-8-30_20230928	Total/NA	Solid	8270E SIM	439479
580-132217-14	SB-8-35_20230928	Total/NA	Solid	8270E SIM	439479
MB 580-439479/1-A	Method Blank	Total/NA	Solid	8270E SIM	439479
LCS 580-439479/2-A	Lab Control Sample	Total/NA	Solid	8270E SIM	439479
LCSD 580-439479/3-A	Lab Control Sample Dup	Total/NA	Solid	8270E SIM	439479
580-132230-A-7-C MS	Matrix Spike	Total/NA	Solid	8270E SIM	439479
580-132230-A-7-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8270E SIM	439479

GC Semi VOA

Prep Batch: 440372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-132217-2	SB-7-10_20230928	Total/NA	Solid	3546	
580-132217-4	SB-7-20_20230928	Total/NA	Solid	3546	
580-132217-7	SB-7-35_20230928	Total/NA	Solid	3546	
580-132217-8	SB-8-4_20230928	Total/NA	Solid	3546	

Eurofins Seattle

QC Association Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-132217-1

GC Semi VOA (Continued)

Prep Batch: 440372 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-132217-9	SB-8-10_20230928	Total/NA	Solid	3546	
580-132217-10	SB-8-15_20230928	Total/NA	Solid	3546	
580-132217-11	SB-8-20_20230928	Total/NA	Solid	3546	
580-132217-12	SB-8-25_20230928	Total/NA	Solid	3546	
580-132217-13	SB-8-30_20230928	Total/NA	Solid	3546	
580-132217-14	SB-8-35_20230928	Total/NA	Solid	3546	
MB 580-440372/1-A	Method Blank	Total/NA	Solid	3546	
LCS 580-440372/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 580-440372/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
580-132200-B-1-O DU	Duplicate	Total/NA	Solid	3546	

Analysis Batch: 441022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-132217-2	SB-7-10_20230928	Total/NA	Solid	NWTPH-Dx	440372
580-132217-4	SB-7-20_20230928	Total/NA	Solid	NWTPH-Dx	440372
580-132217-7	SB-7-35_20230928	Total/NA	Solid	NWTPH-Dx	440372
580-132217-8	SB-8-4_20230928	Total/NA	Solid	NWTPH-Dx	440372
580-132217-9	SB-8-10_20230928	Total/NA	Solid	NWTPH-Dx	440372
580-132217-10	SB-8-15_20230928	Total/NA	Solid	NWTPH-Dx	440372
580-132217-11	SB-8-20_20230928	Total/NA	Solid	NWTPH-Dx	440372
580-132217-12	SB-8-25_20230928	Total/NA	Solid	NWTPH-Dx	440372
580-132217-13	SB-8-30_20230928	Total/NA	Solid	NWTPH-Dx	440372
580-132217-14	SB-8-35_20230928	Total/NA	Solid	NWTPH-Dx	440372
MB 580-440372/1-A	Method Blank	Total/NA	Solid	NWTPH-Dx	440372
LCS 580-440372/2-A	Lab Control Sample	Total/NA	Solid	NWTPH-Dx	440372
LCSD 580-440372/3-A	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Dx	440372
580-132200-B-1-O DU	Duplicate	Total/NA	Solid	NWTPH-Dx	440372

Metals

Prep Batch: 439708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-132217-2	SB-7-10_20230928	Total/NA	Solid	3050B	
580-132217-4	SB-7-20_20230928	Total/NA	Solid	3050B	
580-132217-7	SB-7-35_20230928	Total/NA	Solid	3050B	
580-132217-8	SB-8-4_20230928	Total/NA	Solid	3050B	
580-132217-9	SB-8-10_20230928	Total/NA	Solid	3050B	
580-132217-10	SB-8-15_20230928	Total/NA	Solid	3050B	
580-132217-11	SB-8-20_20230928	Total/NA	Solid	3050B	
MB 580-439708/22-A	Method Blank	Total/NA	Solid	3050B	
LCS 580-439708/23-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 580-439708/24-A	Lab Control Sample Dup	Total/NA	Solid	3050B	

Prep Batch: 439769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-132217-12	SB-8-25_20230928	Total/NA	Solid	3050B	
580-132217-13	SB-8-30_20230928	Total/NA	Solid	3050B	
580-132217-14	SB-8-35_20230928	Total/NA	Solid	3050B	
MB 580-439769/21-A	Method Blank	Total/NA	Solid	3050B	
LCS 580-439769/22-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 580-439769/23-A	Lab Control Sample Dup	Total/NA	Solid	3050B	

Eurofins Seattle

QC Association Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-132217-1

Metals (Continued)

Prep Batch: 439769 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-132217-12 MS	SB-8-25_20230928	Total/NA	Solid	3050B	
580-132217-12 MSD	SB-8-25_20230928	Total/NA	Solid	3050B	
580-132217-12 DU	SB-8-25_20230928	Total/NA	Solid	3050B	

Analysis Batch: 439911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-132217-2	SB-7-10_20230928	Total/NA	Solid	6020B	439708
580-132217-4	SB-7-20_20230928	Total/NA	Solid	6020B	439708
580-132217-7	SB-7-35_20230928	Total/NA	Solid	6020B	439708
580-132217-8	SB-8-4_20230928	Total/NA	Solid	6020B	439708
580-132217-9	SB-8-10_20230928	Total/NA	Solid	6020B	439708
580-132217-10	SB-8-15_20230928	Total/NA	Solid	6020B	439708
580-132217-11	SB-8-20_20230928	Total/NA	Solid	6020B	439708
580-132217-12	SB-8-25_20230928	Total/NA	Solid	6020B	439769
580-132217-13	SB-8-30_20230928	Total/NA	Solid	6020B	439769
580-132217-14	SB-8-35_20230928	Total/NA	Solid	6020B	439769
MB 580-439708/22-A	Method Blank	Total/NA	Solid	6020B	439708
MB 580-439769/21-A	Method Blank	Total/NA	Solid	6020B	439769
LCS 580-439708/23-A	Lab Control Sample	Total/NA	Solid	6020B	439708
LCS 580-439769/22-A	Lab Control Sample	Total/NA	Solid	6020B	439769
LCSD 580-439708/24-A	Lab Control Sample Dup	Total/NA	Solid	6020B	439708
LCSD 580-439769/23-A	Lab Control Sample Dup	Total/NA	Solid	6020B	439769
580-132217-12 MS	SB-8-25_20230928	Total/NA	Solid	6020B	439769
580-132217-12 MSD	SB-8-25_20230928	Total/NA	Solid	6020B	439769
580-132217-12 DU	SB-8-25_20230928	Total/NA	Solid	6020B	439769

General Chemistry

Analysis Batch: 439807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-132217-2	SB-7-10_20230928	Total/NA	Solid	2540G	
580-132217-4	SB-7-20_20230928	Total/NA	Solid	2540G	
580-132217-7	SB-7-35_20230928	Total/NA	Solid	2540G	
580-132217-8	SB-8-4_20230928	Total/NA	Solid	2540G	
580-132217-9	SB-8-10_20230928	Total/NA	Solid	2540G	
580-132217-10	SB-8-15_20230928	Total/NA	Solid	2540G	
580-132217-11	SB-8-20_20230928	Total/NA	Solid	2540G	
580-132217-12	SB-8-25_20230928	Total/NA	Solid	2540G	
580-132217-13	SB-8-30_20230928	Total/NA	Solid	2540G	
580-132217-14	SB-8-35_20230928	Total/NA	Solid	2540G	
580-132205-A-3 DU	Duplicate	Total/NA	Solid	2540G	

Lab Chronicle

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-132217-1

Client Sample ID: SB-7-10_20230928

Lab Sample ID: 580-132217-2

Date Collected: 09/28/23 14:35

Matrix: Solid

Date Received: 09/29/23 16:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	439807	JSM	EET SEA	10/04/23 11:40

Client Sample ID: SB-7-10_20230928

Lab Sample ID: 580-132217-2

Date Collected: 09/28/23 14:35

Matrix: Solid

Date Received: 09/29/23 16:38

Percent Solids: 86.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			439866	TGO	EET SEA	10/04/23 16:50
Total/NA	Analysis	8260D		1	439901	JSM	EET SEA	10/05/23 04:34
Total/NA	Prep	5035			439866	TGO	EET SEA	10/04/23 16:50
Total/NA	Analysis	NWTPH-Gx		1	439897	JSM	EET SEA	10/05/23 04:34
Total/NA	Prep	3546			439479	AA	EET SEA	10/02/23 11:56
Total/NA	Analysis	8270E SIM		1	439732	T1L	EET SEA	10/04/23 01:50
Total/NA	Prep	3546			440372	E1W	EET SEA	10/10/23 12:30
Total/NA	Analysis	NWTPH-Dx		1	441022	KLW	EET SEA	10/17/23 00:00
Total/NA	Prep	3050B			439708	DLV	EET SEA	10/03/23 15:31
Total/NA	Analysis	6020B		10	439911	FCW	EET SEA	10/04/23 19:10

Client Sample ID: SB-7-20_20230928

Lab Sample ID: 580-132217-4

Date Collected: 09/28/23 14:40

Matrix: Solid

Date Received: 09/29/23 16:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	439807	JSM	EET SEA	10/04/23 11:40

Client Sample ID: SB-7-20_20230928

Lab Sample ID: 580-132217-4

Date Collected: 09/28/23 14:40

Matrix: Solid

Date Received: 09/29/23 16:38

Percent Solids: 93.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			439866	TGO	EET SEA	10/04/23 16:50
Total/NA	Analysis	8260D		1	439901	JSM	EET SEA	10/05/23 04:55
Total/NA	Prep	5035			439866	TGO	EET SEA	10/04/23 16:50
Total/NA	Analysis	NWTPH-Gx		1	439897	JSM	EET SEA	10/05/23 04:55
Total/NA	Prep	3546			439479	AA	EET SEA	10/02/23 11:56
Total/NA	Analysis	8270E SIM		1	439732	T1L	EET SEA	10/04/23 02:15
Total/NA	Prep	3546			440372	E1W	EET SEA	10/10/23 12:30
Total/NA	Analysis	NWTPH-Dx		1	441022	KLW	EET SEA	10/16/23 21:19
Total/NA	Prep	3050B			439708	DLV	EET SEA	10/03/23 15:31
Total/NA	Analysis	6020B		10	439911	FCW	EET SEA	10/04/23 19:12

Eurofins Seattle

Lab Chronicle

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-132217-1

Client Sample ID: SB-7-35_20230928

Lab Sample ID: 580-132217-7

Date Collected: 09/28/23 15:45

Matrix: Solid

Date Received: 09/29/23 16:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	439807	JSM	EET SEA	10/04/23 11:40

Client Sample ID: SB-7-35_20230928

Lab Sample ID: 580-132217-7

Date Collected: 09/28/23 15:45

Matrix: Solid

Date Received: 09/29/23 16:38

Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			439866	TGO	EET SEA	10/04/23 16:50
Total/NA	Analysis	8260D		1	439901	JSM	EET SEA	10/05/23 05:16
Total/NA	Prep	5035			439866	TGO	EET SEA	10/04/23 16:50
Total/NA	Analysis	NWTPH-Gx		1	439897	JSM	EET SEA	10/05/23 05:16
Total/NA	Prep	3546			439479	AA	EET SEA	10/02/23 11:56
Total/NA	Analysis	8270E SIM		1	439732	T1L	EET SEA	10/04/23 02:39
Total/NA	Prep	3546			440372	E1W	EET SEA	10/10/23 12:30
Total/NA	Analysis	NWTPH-Dx		1	441022	KLW	EET SEA	10/16/23 22:40
Total/NA	Prep	3050B			439708	DLV	EET SEA	10/03/23 15:31
Total/NA	Analysis	6020B		10	439911	FCW	EET SEA	10/04/23 19:15

Client Sample ID: SB-8-4_20230928

Lab Sample ID: 580-132217-8

Date Collected: 09/28/23 09:30

Matrix: Solid

Date Received: 09/29/23 16:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	439807	JSM	EET SEA	10/04/23 11:40

Client Sample ID: SB-8-4_20230928

Lab Sample ID: 580-132217-8

Date Collected: 09/28/23 09:30

Matrix: Solid

Date Received: 09/29/23 16:38

Percent Solids: 88.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			439866	TGO	EET SEA	10/04/23 16:50
Total/NA	Analysis	8260D		1	439901	JSM	EET SEA	10/05/23 05:58
Total/NA	Prep	5035			439866	TGO	EET SEA	10/04/23 16:50
Total/NA	Analysis	NWTPH-Gx		1	439897	JSM	EET SEA	10/05/23 05:58
Total/NA	Prep	3546			439479	AA	EET SEA	10/02/23 11:56
Total/NA	Analysis	8270E SIM		1	439732	T1L	EET SEA	10/04/23 03:03
Total/NA	Prep	3546			440372	E1W	EET SEA	10/10/23 12:30
Total/NA	Analysis	NWTPH-Dx		1	441022	KLW	EET SEA	10/16/23 22:00
Total/NA	Prep	3050B			439708	DLV	EET SEA	10/03/23 15:31
Total/NA	Analysis	6020B		10	439911	FCW	EET SEA	10/04/23 19:18

Eurofins Seattle

Lab Chronicle

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-132217-1

Client Sample ID: SB-8-10_20230928

Lab Sample ID: 580-132217-9

Date Collected: 09/28/23 16:35

Matrix: Solid

Date Received: 09/29/23 16:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	439807	JSM	EET SEA	10/04/23 11:40

Client Sample ID: SB-8-10_20230928

Lab Sample ID: 580-132217-9

Date Collected: 09/28/23 16:35

Matrix: Solid

Date Received: 09/29/23 16:38

Percent Solids: 79.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			439866	TGO	EET SEA	10/04/23 16:50
Total/NA	Analysis	8260D		1	439901	JSM	EET SEA	10/05/23 06:19
Total/NA	Prep	5035			439866	TGO	EET SEA	10/04/23 16:50
Total/NA	Analysis	NWTPH-Gx		1	439897	JSM	EET SEA	10/05/23 06:19
Total/NA	Prep	3546			439479	AA	EET SEA	10/02/23 11:56
Total/NA	Analysis	8270E SIM		1	439732	T1L	EET SEA	10/04/23 03:27
Total/NA	Prep	3546			440372	E1W	EET SEA	10/10/23 12:30
Total/NA	Analysis	NWTPH-Dx		1	441022	KLW	EET SEA	10/16/23 23:40
Total/NA	Prep	3050B			439708	DLV	EET SEA	10/03/23 15:31
Total/NA	Analysis	6020B		10	439911	FCW	EET SEA	10/04/23 19:21

Client Sample ID: SB-8-15_20230928

Lab Sample ID: 580-132217-10

Date Collected: 09/28/23 16:55

Matrix: Solid

Date Received: 09/29/23 16:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	439807	JSM	EET SEA	10/04/23 11:40

Client Sample ID: SB-8-15_20230928

Lab Sample ID: 580-132217-10

Date Collected: 09/28/23 16:55

Matrix: Solid

Date Received: 09/29/23 16:38

Percent Solids: 88.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			439866	TGO	EET SEA	10/04/23 16:50
Total/NA	Analysis	8260D		1	439901	JSM	EET SEA	10/05/23 06:40
Total/NA	Prep	5035			439866	TGO	EET SEA	10/04/23 16:50
Total/NA	Analysis	NWTPH-Gx		1	439897	JSM	EET SEA	10/05/23 06:40
Total/NA	Prep	3546			439479	AA	EET SEA	10/02/23 11:56
Total/NA	Analysis	8270E SIM		1	439732	T1L	EET SEA	10/04/23 03:52
Total/NA	Prep	3546			440372	E1W	EET SEA	10/10/23 12:30
Total/NA	Analysis	NWTPH-Dx		1	441022	KLW	EET SEA	10/16/23 23:00
Total/NA	Prep	3050B			439708	DLV	EET SEA	10/03/23 15:31
Total/NA	Analysis	6020B		10	439911	FCW	EET SEA	10/04/23 19:23

Eurofins Seattle

Lab Chronicle

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-132217-1

Client Sample ID: SB-8-20_20230928

Lab Sample ID: 580-132217-11

Date Collected: 09/28/23 16:45

Matrix: Solid

Date Received: 09/29/23 16:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	439807	JSM	EET SEA	10/04/23 11:40

Client Sample ID: SB-8-20_20230928

Lab Sample ID: 580-132217-11

Date Collected: 09/28/23 16:45

Matrix: Solid

Date Received: 09/29/23 16:38

Percent Solids: 84.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			439866	TGO	EET SEA	10/04/23 16:50
Total/NA	Analysis	8260D		1	439901	JSM	EET SEA	10/05/23 07:01
Total/NA	Prep	5035			439866	TGO	EET SEA	10/04/23 16:50
Total/NA	Analysis	NWTPH-Gx		1	440241	JSM	EET SEA	10/09/23 13:37
Total/NA	Prep	3546			439479	AA	EET SEA	10/02/23 11:56
Total/NA	Analysis	8270E SIM		1	439732	T1L	EET SEA	10/04/23 04:16
Total/NA	Prep	3546			440372	E1W	EET SEA	10/10/23 12:30
Total/NA	Analysis	NWTPH-Dx		1	441022	KLW	EET SEA	10/16/23 21:39
Total/NA	Prep	3050B			439708	DLV	EET SEA	10/03/23 15:31
Total/NA	Analysis	6020B		10	439911	FCW	EET SEA	10/04/23 19:26

Client Sample ID: SB-8-25_20230928

Lab Sample ID: 580-132217-12

Date Collected: 09/28/23 17:10

Matrix: Solid

Date Received: 09/29/23 16:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	439807	JSM	EET SEA	10/04/23 11:40

Client Sample ID: SB-8-25_20230928

Lab Sample ID: 580-132217-12

Date Collected: 09/28/23 17:10

Matrix: Solid

Date Received: 09/29/23 16:38

Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			439866	TGO	EET SEA	10/04/23 16:50
Total/NA	Analysis	8260D		1	439901	JSM	EET SEA	10/05/23 07:22
Total/NA	Prep	5035			439866	TGO	EET SEA	10/04/23 16:50
Total/NA	Analysis	NWTPH-Gx		1	440241	JSM	EET SEA	10/09/23 13:16
Total/NA	Prep	3546			439479	AA	EET SEA	10/02/23 11:56
Total/NA	Analysis	8270E SIM		1	439732	T1L	EET SEA	10/04/23 04:40
Total/NA	Prep	3546			440372	E1W	EET SEA	10/10/23 12:30
Total/NA	Analysis	NWTPH-Dx		1	441022	KLW	EET SEA	10/16/23 23:20
Total/NA	Prep	3050B			439769	DLV	EET SEA	10/04/23 10:05
Total/NA	Analysis	6020B		10	439911	FCW	EET SEA	10/04/23 19:51

Eurofins Seattle

Lab Chronicle

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-132217-1

Client Sample ID: SB-8-30_20230928

Lab Sample ID: 580-132217-13

Date Collected: 09/28/23 17:15

Matrix: Solid

Date Received: 09/29/23 16:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	439807	JSM	EET SEA	10/04/23 11:40

Client Sample ID: SB-8-30_20230928

Lab Sample ID: 580-132217-13

Date Collected: 09/28/23 17:15

Matrix: Solid

Date Received: 09/29/23 16:38

Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			439866	TGO	EET SEA	10/04/23 16:50
Total/NA	Analysis	8260D		1	439901	JSM	EET SEA	10/05/23 07:43
Total/NA	Prep	5035			439866	TGO	EET SEA	10/04/23 16:50
Total/NA	Analysis	NWTPH-Gx		1	439897	JSM	EET SEA	10/05/23 07:43
Total/NA	Prep	3546			439479	AA	EET SEA	10/02/23 11:56
Total/NA	Analysis	8270E SIM		1	439732	T1L	EET SEA	10/04/23 05:04
Total/NA	Prep	3546			440372	E1W	EET SEA	10/10/23 12:30
Total/NA	Analysis	NWTPH-Dx		1	441022	KLW	EET SEA	10/16/23 20:59
Total/NA	Prep	3050B			439769	DLV	EET SEA	10/04/23 10:05
Total/NA	Analysis	6020B		10	439911	FCW	EET SEA	10/04/23 20:29

Client Sample ID: SB-8-35_20230928

Lab Sample ID: 580-132217-14

Date Collected: 09/28/23 17:25

Matrix: Solid

Date Received: 09/29/23 16:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	439807	JSM	EET SEA	10/04/23 11:40

Client Sample ID: SB-8-35_20230928

Lab Sample ID: 580-132217-14

Date Collected: 09/28/23 17:25

Matrix: Solid

Date Received: 09/29/23 16:38

Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			439866	TGO	EET SEA	10/04/23 16:50
Total/NA	Analysis	8260D		1	439901	JSM	EET SEA	10/05/23 08:04
Total/NA	Prep	5035			439866	TGO	EET SEA	10/04/23 16:50
Total/NA	Analysis	NWTPH-Gx		1	439897	JSM	EET SEA	10/05/23 08:04
Total/NA	Prep	3546			439479	AA	EET SEA	10/02/23 11:56
Total/NA	Analysis	8270E SIM		1	439732	T1L	EET SEA	10/04/23 05:28
Total/NA	Prep	3546			440372	E1W	EET SEA	10/10/23 12:30
Total/NA	Analysis	NWTPH-Dx		1	441022	KLW	EET SEA	10/16/23 22:20
Total/NA	Prep	3050B			439769	DLV	EET SEA	10/04/23 10:05
Total/NA	Analysis	6020B		10	439911	FCW	EET SEA	10/04/23 20:31

Laboratory References:

EET SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Eurofins Seattle

Accreditation/Certification Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-132217-1

Laboratory: Eurofins Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

Method Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-132217-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SEA
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC/MS)	NWTPH	EET SEA
8270E SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	EET SEA
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	EET SEA
6020B	Metals (ICP/MS)	SW846	EET SEA
2540G	SM 2540G	SM22	EET SEA
3050B	Preparation, Metals	SW846	EET SEA
3546	Microwave Extraction	SW846	EET SEA
5035	Closed System Purge and Trap	SW846	EET SEA

Protocol References:

NWTPH = Northwest Total Petroleum Hydrocarbon

SM22 = Standard Methods For The Examination Of Water And Wastewater, 22nd Edition

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-132217-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-132217-2	SB-7-10_20230928	Solid	09/28/23 14:35	09/29/23 16:38
580-132217-4	SB-7-20_20230928	Solid	09/28/23 14:40	09/29/23 16:38
580-132217-7	SB-7-35_20230928	Solid	09/28/23 15:45	09/29/23 16:38
580-132217-8	SB-8-4_20230928	Solid	09/28/23 09:30	09/29/23 16:38
580-132217-9	SB-8-10_20230928	Solid	09/28/23 16:35	09/29/23 16:38
580-132217-10	SB-8-15_20230928	Solid	09/28/23 16:55	09/29/23 16:38
580-132217-11	SB-8-20_20230928	Solid	09/28/23 16:45	09/29/23 16:38
580-132217-12	SB-8-25_20230928	Solid	09/28/23 17:10	09/29/23 16:38
580-132217-13	SB-8-30_20230928	Solid	09/28/23 17:15	09/29/23 16:38
580-132217-14	SB-8-35_20230928	Solid	09/28/23 17:25	09/29/23 16:38



Laboratory Management Program (LaMP) Chain of Custody Record
Soil, Sediment and Groundwater Samples

BP Site Node Path:

Former BP 11060

Req Due Date (mm/dd/yy):

Standard TAT

Rush TAT Yes

No

X

BP/RM Facility No:

Former BP Facility No. 11060

Lab Work Order Number:

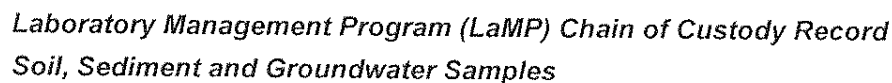
Page 1 of 2

Lab Name: Eurofins	BP/ARC Facility Address: 4580 Fauntleroy Way SW	Consultant/Contractor: Antea Group											
Lab Address: 5755 8th Street East, Tacoma, WA 98424	City, State, ZIP Code: Seattle, WA	Consultant/Contractor Project No: WA - 11060 Groundwater Monitoring											
Lab PM: Katie Grant	Lead Regulatory Agency: Washington State Department of Ecology	Address: 18378-B Redmond Way, Redmond, WA 98052											
Lab Phone: 253-922-2310	California Global ID No.: NA	Consultant/Contractor PM: Lonnie Dent											
Lab Shipping Acct:	Enfos Proposal No: WR1027162/00C87-0002	Phone: 303-807-3627											
Lab Bottle Order No:	Accounting Mode: Provision ☒ OOC-BU ☐ OOC-RM	Email: lonnie.dent@anteagroup.us											
Other Info: katie.grant@et.eurofinsus.com	Stage Commercial-Site Activities (70) Activity Contracts Management (116)	Send/Submit EDD to: lonnie.dent@anteagroup.us											
BP/RM PM: Wade Melton	Invoice To: BP-RM ☐ BP/ARC ☒												
PM Phone: 360-594-7978	Sample Details	Requested Analyses											
PM Email: wade.melton@bp.com		Report Type & QC Level											
		Limited (Standard) Package ☐											
		Limited Plus Package ☐											
		Full Package ☐											
Lab No.	Sample Description	Date	Time	Field Matrix	Start Depth	End Depth	Depth Unit	Grab (G) or Composite (C)	Total Number of Containers	Analysis	Fit	Pres	Comments
SB-7-5-20230927		9/27/23	1630	S				G	2	BTEX by EPA 8260B			
SB-7-10-20230928		9/28/23	1435	S				G	2	MTBE by EPA 8260B			
SB-7-15-20230928		9/28/23	1455	S				G	2	Naphthalenes by EPA 8270 SIM			
SB-7-20-20230928		9/28/23	1440	S				G	2	NWTPH-Gx			
SB-7-25-20230928		9/28/23	1510	S				G	2	NWTPH-Ox			
SB-7-35-20230928		9/28/23	1545	S				G	2	Total Lead by EPA 6020A			
				S				G					
Sampler's Name: JL MH	Relinquished By / Affiliation: [Signature] Antea	Date: 9/28/23	Time: 1638	Accepted By / Affiliation: [Signature] Srdan Lamm	Date: 9/29/23	Time: 1638							
Sampler's Company: Antea Group													
Ship Method:	Ship Date:												
Shipment Tracking No:													
Special Instructions: SB-7-10, SB-7-20, SB-7-35 analyse suite													

THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: _____ °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

IR9 5.4, 5.1/
BB/wet ice/bub/client
Dutroff

BP LaMP Soil/H2O COC July 2018



Page 2 of 2

Req Due Date (mm/dd/yy): Standard TAT

Rush TAT Yes No X

Lab Work Order Number:

[illegible]

1R9 5.4, 5.1 / BB) BP LaMP Soil/H2O COC July 2018
wet ice / bub / client dropoff

Login Sample Receipt Checklist

Client: Antea USA Inc.

Job Number: 580-132217-1

Login Number: 132217

List Number: 1

Creator: Prigge, Madison

List Source: Eurofins Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	Refer to Job Narrative for details.
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins SeattleJob No.: 580-132217-1

SDG No.: _____

Batch Number: 439866Batch Start Date: 10/04/23 16:47Batch Analyst: Oseen, Taryn GBatch Method: 5035Batch End Date: 10/04/23 17:14

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	TareWeight	Vial&SampleWt	MeOHSubtraction	MeOHVol	InitialAmount	FinalAmount
MB 580-439866/1		5035, 8260D						10 mL	10 g	10 mL
LCS 580-439866/2		5035, 8260D						10 mL	10 g	10 mL
LCSD 580-439866/3		5035, 8260D						10 mL	10 g	10 mL
580-132217-B-2	SB-7-10_20230928	5035, 8260D	Solid	T	+035.286 g	46.33 g	No	10 mL	11.044 g	10 mL
580-132217-B-4	SB-7-20_20230928	5035, 8260D	Solid	T	+035.472 g	43.58 g	No	10 mL	8.108 g	10 mL
580-132217-B-7	SB-7-35_20230928	5035, 8260D	Solid	T	+035.093 g	45.45 g	No	10 mL	10.357 g	10 mL
580-132217-B-8	SB-8-4_20230928	5035, 8260D	Solid	T	+035.178 g	49.51 g	No	10 mL	14.332 g	10 mL
580-132217-B-9	SB-8-10_20230928	5035, 8260D	Solid	T	+034.936 g	43.94 g	No	10 mL	9.004 g	10 mL
580-132217-B-10	SB-8-15_20230928	5035, 8260D	Solid	T	+035.107 g	44.85 g	No	10 mL	9.743 g	10 mL
580-132217-B-11	SB-8-20_20230928	5035, 8260D	Solid	T	+035.281 g	44.96 g	No	10 mL	9.679 g	10 mL
580-132217-B-12	SB-8-25_20230928	5035, 8260D	Solid	T	+035.473 g	45.80 g	No	10 mL	10.327 g	10 mL
580-132217-B-13	SB-8-30_20230928	5035, 8260D	Solid	T	+035.202 g	45.19 g	No	10 mL	9.988 g	10 mL
580-132217-A-14	SB-8-35_20230928	5035, 8260D	Solid	T	+035.074 g	44.72 g	No	10 mL	9.646 g	10 mL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	Methanol 1L 00062	V2.4TFT-EX 00092	VOAMasterMix 00108	VoaSand 00073	VOASTDGASweek 00149	
MB 580-439866/1		5035, 8260D				10 mL		10 g		
LCS 580-439866/2		5035, 8260D			10 mL		160 uL	10 g	160 uL	
LCSD 580-439866/3		5035, 8260D			10 mL		160 uL	10 g	160 uL	
580-132217-B-2	SB-7-10_20230928	5035, 8260D	Solid	T						
580-132217-B-4	SB-7-20_20230928	5035, 8260D	Solid	T						
580-132217-B-7	SB-7-35_20230928	5035, 8260D	Solid	T						
580-132217-B-8	SB-8-4_20230928	5035, 8260D	Solid	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D

Page 1 of 2

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-132217-1

SDG No.:

Batch Number: 439866 Batch Start Date: 10/04/23 16:47 Batch Analyst: Oseen, Taryn G

Batch Method: 5035 Batch End Date: 10/04/23 17:14

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	Methanol 1L 00062	V2.4TFT-EX 00092	VOAMasterMix 00108	VoaSand 00073	VOASTDGASweek 00149	
580-132217-B-9	SB-8-10_20230928	5035, 8260D	Solid	T						
580-132217-B-10	SB-8-15_20230928	5035, 8260D	Solid	T						
580-132217-B-11	SB-8-20_20230928	5035, 8260D	Solid	T						
580-132217-B-12	SB-8-25_20230928	5035, 8260D	Solid	T						
580-132217-B-13	SB-8-30_20230928	5035, 8260D	Solid	T						
580-132217-A-14	SB-8-35_20230928	5035, 8260D	Solid	T						

Batch Notes	
Balance ID	sea239
Balance is Level? (Y/N)	yes
Blank Matrix ID	3151997
Pipette/Syringe/Dispenser ID	BT5/BT7
Vial Lot Number	0112201I
Batch Comment	W2023087

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-132217-1

SDG No.: _____

Batch Number: 439866 Batch Start Date: 10/04/23 16:47 Batch Analyst: Oseen, Taryn GBatch Method: 5035 Batch End Date: 10/04/23 17:14

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	TareWeight	Vial&SampleWt	MeOHSubtraction	MeOHVol	InitialAmount	FinalAmount
MB 580-439866/1		5035, NWTPH-Gx						10 mL	10 g	10 mL
LCS 580-439866/4		5035, NWTPH-Gx						10 mL	10 g	10 mL
LCSD 580-439866/5		5035, NWTPH-Gx						10 mL	10 g	10 mL
580-132217-B-2	SB-7-10_20230928	5035, NWTPH-Gx	Solid	T	+035.286 g	46.33 g	No	10 mL	11.044 g	10 mL
580-132217-B-4	SB-7-20_20230928	5035, NWTPH-Gx	Solid	T	+035.472 g	43.58 g	No	10 mL	8.108 g	10 mL
580-132217-B-7	SB-7-35_20230928	5035, NWTPH-Gx	Solid	T	+035.093 g	45.45 g	No	10 mL	10.357 g	10 mL
580-132217-B-8	SB-8-4_20230928	5035, NWTPH-Gx	Solid	T	+035.178 g	49.51 g	No	10 mL	14.332 g	10 mL
580-132217-B-9	SB-8-10_20230928	5035, NWTPH-Gx	Solid	T	+034.936 g	43.94 g	No	10 mL	9.004 g	10 mL
580-132217-B-10	SB-8-15_20230928	5035, NWTPH-Gx	Solid	T	+035.107 g	44.85 g	No	10 mL	9.743 g	10 mL
580-132217-B-11	SB-8-20_20230928	5035, NWTPH-Gx	Solid	T	+035.281 g	44.96 g	No	10 mL	9.679 g	10 mL
580-132217-B-12	SB-8-25_20230928	5035, NWTPH-Gx	Solid	T	+035.473 g	45.80 g	No	10 mL	10.327 g	10 mL
580-132217-B-13	SB-8-30_20230928	5035, NWTPH-Gx	Solid	T	+035.202 g	45.19 g	No	10 mL	9.988 g	10 mL
580-132217-A-14	SB-8-35_20230928	5035, NWTPH-Gx	Solid	T	+035.074 g	44.72 g	No	10 mL	9.646 g	10 mL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	GRO_LCS 00090	V2.4TFT-EX 00092	VoaSand 00073			
MB 580-439866/1		5035, NWTPH-Gx				10 mL	10 g			
LCS 580-439866/4		5035, NWTPH-Gx			200 uL	10 mL	10 g			
LCSD 580-439866/5		5035, NWTPH-Gx			200 uL	10 mL	10 g			
580-132217-B-2	SB-7-10_20230928	5035, NWTPH-Gx	Solid	T						
580-132217-B-4	SB-7-20_20230928	5035, NWTPH-Gx	Solid	T						
580-132217-B-7	SB-7-35_20230928	5035, NWTPH-Gx	Solid	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

NWTPH-Gx

Page 1 of 2

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-132217-1

SDG No.: _____

Batch Number: 439866 Batch Start Date: 10/04/23 16:47 Batch Analyst: Oseen, Taryn G

Batch Method: 5035 Batch End Date: 10/04/23 17:14

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	GRO_LCS 00090	V2.4TFT-EX 00092	VoaSand 00073			
580-132217-B-8	SB-8-4_20230928	5035, NWTPH-Gx	Solid	T						
580-132217-B-9	SB-8-10_20230928	5035, NWTPH-Gx	Solid	T						
580-132217-B-10	SB-8-15_20230928	5035, NWTPH-Gx	Solid	T						
580-132217-B-11	SB-8-20_20230928	5035, NWTPH-Gx	Solid	T						
580-132217-B-12	SB-8-25_20230928	5035, NWTPH-Gx	Solid	T						
580-132217-B-13	SB-8-30_20230928	5035, NWTPH-Gx	Solid	T						
580-132217-A-14	SB-8-35_20230928	5035, NWTPH-Gx	Solid	T						

Batch Notes	
Balance ID	sea239
Balance is Level? (Y/N)	yes
Blank Matrix ID	3151997
Pipette/Syringe/Dispenser ID	BT5/BT7
Vial Lot Number	0112201I
Batch Comment	W2023087

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-132217-1

SDG No.:

Batch Number: 439970 Batch Start Date: 10/05/23 11:31 Batch Analyst: Oseen, Taryn G

Batch Method: 5035 Batch End Date: 10/05/23 12:17

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MeOHVol	InitialAmount	FinalAmount	GRO_LCS 00090	V2.4TFTT-EX 00092	VoaSand 00073
MB 580-439970/1		5035, NWTPH-Gx			10 mL	10 g	10 mL		10 mL	10 g
LCS 580-439970/4		5035, NWTPH-Gx			10 mL	10 g	10 mL	200 uL	10 mL	10 g
LCSD 580-439970/5		5035, NWTPH-Gx			10 mL	10 g	10 mL	200 uL	10 mL	10 g

Batch Notes	
Balance ID	SEA239
Balance is Level? (Y/N)	yes
Blank Matrix ID	3151997
Pipette/Syringe/Dispenser ID	BT5/BT7
Vial Lot Number	0112201I
Batch Comment	W2023087

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins SeattleJob No.: 580-132217-1

SDG No.: _____

Batch Number: 439479Batch Start Date: 10/02/23 11:56Batch Analyst: Abando, AriyanaBatch Method: 3546Batch End Date: 10/03/23 11:32

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	8270flspk 00330	8270Surr_Phen 00019		
MB 580-439479/1		3546, 8270E SIM			10 g	10 mL		100 uL		
LCS 580-439479/2		3546, 8270E SIM			10 g	10 mL	100 uL	100 uL		
LCSD 580-439479/3		3546, 8270E SIM			10 g	10 mL	100 uL	100 uL		
580-132230-A-7		3546, 8270E SIM		T	10.43 g	10 mL		100 uL		
580-132217-A-2	SB-7-10_20230928	3546, 8270E SIM	Solid	T	10.33 g	10 mL		100 uL		
580-132217-A-4	SB-7-20_20230928	3546, 8270E SIM	Solid	T	10.16 g	10 mL		100 uL		
580-132217-A-7	SB-7-35_20230928	3546, 8270E SIM	Solid	T	10.07 g	10 mL		100 uL		
580-132217-A-8	SB-8-4_20230928	3546, 8270E SIM	Solid	T	10.27 g	10 mL		100 uL		
580-132217-A-9	SB-8-10_20230928	3546, 8270E SIM	Solid	T	10.53 g	10 mL		100 uL		
580-132217-A-10	SB-8-15_20230928	3546, 8270E SIM	Solid	T	10.27 g	10 mL		100 uL		
580-132217-A-11	SB-8-20_20230928	3546, 8270E SIM	Solid	T	10.42 g	10 mL		100 uL		
580-132217-A-12	SB-8-25_20230928	3546, 8270E SIM	Solid	T	10.35 g	10 mL		100 uL		
580-132217-A-13	SB-8-30_20230928	3546, 8270E SIM	Solid	T	10.71 g	10 mL		100 uL		
580-132217-A-14	SB-8-35_20230928	3546, 8270E SIM	Solid	T	10.67 g	10 mL		100 uL		
580-132230-A-7 MS		3546, 8270E SIM		T	10.56 g	10 mL	100 uL	100 uL		
580-132230-A-7 MSD		3546, 8270E SIM		T	10.55 g	10 mL	100 uL	100 uL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8270E SIM

Page 1 of 2

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-132217-1

SDG No.: _____

Batch Number: 439479 Batch Start Date: 10/02/23 11:56 Batch Analyst: Abando, Ariyana

Batch Method: 3546 Batch End Date: 10/03/23 11:32

Batch Notes	
Method/Fraction	3546 / 8270_SIM
Balance ID	SEA240
Balance is Level? (Y/N)	yes
Microwave Oven ID	Mars 1
Microwave Program ID	TURBO XPRESS 1
Pipette/Syringe/Dispenser ID	MP5
Analyst ID - Extraction	AA
Blank Matrix ID	3376690
Analyst ID - Spike Analyst	AA
Prep Solvent ID	3554247
Na2SO4 ID	3561128
Filter ID	09-790-12F
Analyst ID - Concentration	EW
Equipment ID - Concentration 1	TurboVap 6
Thermometer ID - Concentration 1	Digital Readout
Concentration 1 Uncorrected Temperature	20 Degrees C
Concentration 1 Corrected Temperature	19.8 Degrees C
Vial Lot Number	W2021167
Pipette Tip Lot ID	14672-200
Batch Comment	vialed by: EW

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8270E SIM



GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-132217-1

SDG No.: _____

Batch Number: 440372 Batch Start Date: 10/10/23 12:30 Batch Analyst: Webster, Echo 1Batch Method: 3546 Batch End Date: 10/11/23 13:11

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	TPH Spike_RZ 00109	TPH_SURR 00080		
MB 580-440372/1		3546, NWTPH-Dx			10 g	10 mL		100 uL		
LCS 580-440372/2		3546, NWTPH-Dx			10 g	10 mL	100 uL	100 uL		
LCSD 580-440372/3		3546, NWTPH-Dx			10 g	10 mL	100 uL	100 uL		
580-132200-B-1		3546, NWTPH-Dx		T	10.227 g	10 mL		100 uL		
580-132200-B-1 DU		3546, NWTPH-Dx		T	10.583 g	10 mL		100 uL		
580-132217-A-13	SB-8-30_20230928	3546, NWTPH-Dx	Solid	T	10.369 g	10 mL		100 uL		
580-132217-A-4	SB-7-20_20230928	3546, NWTPH-Dx	Solid	T	10.497 g	10 mL		100 uL		
580-132217-A-11	SB-8-20_20230928	3546, NWTPH-Dx	Solid	T	10.418 g	10 mL		100 uL		
580-132217-A-8	SB-8-4_20230928	3546, NWTPH-Dx	Solid	T	10.475 g	10 mL		100 uL		
580-132217-A-14	SB-8-35_20230928	3546, NWTPH-Dx	Solid	T	10.712 g	10 mL		100 uL		
580-132217-A-7	SB-7-35_20230928	3546, NWTPH-Dx	Solid	T	10.471 g	10 mL		100 uL		
580-132217-A-10	SB-8-15_20230928	3546, NWTPH-Dx	Solid	T	10.368 g	10 mL		100 uL		
580-132217-A-12	SB-8-25_20230928	3546, NWTPH-Dx	Solid	T	10.318 g	10 mL		100 uL		
580-132217-A-9	SB-8-10_20230928	3546, NWTPH-Dx	Solid	T	10.501 g	10 mL		100 uL		
580-132217-A-2	SB-7-10_20230928	3546, NWTPH-Dx	Solid	T	10.639 g	10 mL		100 uL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

NWTPH-Dx

Page 1 of 2

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-132217-1

SDG No.: _____

Batch Number: 440372 Batch Start Date: 10/10/23 12:30 Batch Analyst: Webster, Echo 1Batch Method: 3546 Batch End Date: 10/11/23 13:11

Batch Notes	
Method/Fraction	3546 / Dx
Balance ID	SEA240
Balance is Level? (Y/N)	yes
Microwave Oven ID	Mars 1
Microwave Program ID	TURBO XPRESS 1
Pipette/Syringe/Dispenser ID	MP5
Analyst ID - Extraction	AA
Blank Matrix ID	3376690
Analyst ID - Spike Analyst	AA
Sufficient Volume for Batch QC	yes
Prep Solvent ID	3554247
Na2SO4 ID	3561128
Filter ID	09-790-12F
Analyst ID - Concentration	AA
Equipment ID - Concentration 1	TurboVap 6
Thermometer ID - Concentration 1	Digital Readout
Concentration 1 Uncorrected Temperature	46 Degrees C
Concentration 1 Corrected Temperature	42 Degrees C
Vial Lot Number	W2021167
Pipette Tip Lot ID	14672-200
Batch Comment	viald by:AA

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

NWTPH-Dx

Page 2 of 2

METALS BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-132217-1

SDG No.: _____

Batch Number: 439708 Batch Start Date: 10/03/23 15:31 Batch Analyst: Vallelunga, Diana LBatch Method: 3050B Batch End Date: 10/04/23 11:55

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	ICP CAL 1 00028	ICP CAL 2 00027	MET Spike 3C 00046	
580-132189-B-2		3050B, 6020B		T	1.5237 g	50 mL				
580-132189-B-2 DU		3050B, 6020B		T	1.5773 g	50 mL				
580-132189-B-2 MS		3050B, 6020B		T	1.4574 g	50 mL	0.5 mL	0.5 mL	0.5 mL	
580-132189-B-2 MSD		3050B, 6020B		T	1.2331 g	50 mL	0.5 mL	0.5 mL	0.5 mL	
580-132217-A-2	SB-7-10_20230928	3050B, 6020B	Solid	T	1.3080 g	50 mL				
580-132217-A-4	SB-7-20_20230928	3050B, 6020B	Solid	T	1.3691 g	50 mL				
580-132217-A-7	SB-7-35_20230928	3050B, 6020B	Solid	T	1.5981 g	50 mL				
580-132217-A-8	SB-8-4_20230928	3050B, 6020B	Solid	T	1.4096 g	50 mL				
580-132217-A-9	SB-8-10_20230928	3050B, 6020B	Solid	T	1.3720 g	50 mL				
580-132217-A-10	SB-8-15_20230928	3050B, 6020B	Solid	T	1.3816 g	50 mL				
580-132217-A-11	SB-8-20_20230928	3050B, 6020B	Solid	T	1.3527 g	50 mL				
MB 580-439708/22		3050B, 6020B			1.0 g	50 mL				
LCS 580-439708/23		3050B, 6020B			1.0 g	50 mL	0.5 mL	0.5 mL	0.5 mL	
ICSD 580-439708/24		3050B, 6020B			1.0 g	50 mL	0.5 mL	0.5 mL	0.5 mL	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

6020B

Page 1 of 2

METALS BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-132217-1

SDG No.: _____

Batch Number: 439708 Batch Start Date: 10/03/23 15:31 Batch Analyst: Vallelunga, Diana LBatch Method: 3050B Batch End Date: 10/04/23 11:55

Batch Notes	
Nominal Amount Used	1-2 g g
Blank Soil Lot Number	3549069
Balance ID	SEA241
Balance is Level? (Y/N)	yes
Digestion Tube/Cup ID	3574372
Pipette/Syringe/Dispenser ID	metals prep 2
Analyst ID - Spike Analyst	DLV
Analyst ID - Spike Witness Analyst	AUA
Sufficient Volume for Batch QC	yes
Hydrochloric Acid ID	3505341
Nitric Acid ID	3545098
Hydrogen Peroxide ID	3546162
Digestion Unit ID	BLOCK E
Thermometer ID	742935
Thermometer Location ID	E11
Temperature - Uncorrected - Start	94.0 Degrees C
Temperature - Corrected - Start	94.0 Degrees C
Temperature - Uncorrected - End	94.0 Degrees C
Temperature - Corrected - End	94.0 Degrees C
Digestion Start Time	10/04/2023 09:05
Digestion End Time	10/04/2023 11:55
Batch Comment	hno3/hcl: 0905-0920 hno3: 1000-1100 h2O2: 1140-1155

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

6020B

Page 2 of 2

METALS BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-132217-1

SDG No.: _____

Batch Number: 439769 Batch Start Date: 10/04/23 09:33 Batch Analyst: Vallelunga, Diana L

Batch Method: 3050B Batch End Date: 10/04/23 12:56

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	ICP CAL 1 00028	ICP CAL 2 00027	MET Spike 3C 00046	
580-132217-A-12	SB-8-25_20230928	3050B, 6020B	Solid	T	1.5810 g	50 mL				
580-132217-A-12 DU	SB-8-25_20230928	3050B, 6020B		T	1.4231 g	50 mL				
580-132217-A-12 MS	SB-8-25_20230928	3050B, 6020B		T	1.4965 g	50 mL	0.5 mL	0.5 mL	0.5 mL	
580-132217-A-12 MSD	SB-8-25_20230928	3050B, 6020B		T	1.5986 g	50 mL	0.5 mL	0.5 mL	0.5 mL	
580-132217-A-13	SB-8-30_20230928	3050B, 6020B	Solid	T	1.5928 g	50 mL				
580-132217-A-14	SB-8-35_20230928	3050B, 6020B	Solid	T	1.5440 g	50 mL				
MB 580-439769/21		3050B, 6020B			1.0 g	50 mL				
LCS 580-439769/22		3050B, 6020B			1.0 g	50 mL	0.5 mL	0.5 mL	0.5 mL	
LCSD 580-439769/23		3050B, 6020B			1.0 g	50 mL	0.5 mL	0.5 mL	0.5 mL	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

6020B

METALS BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-132217-1

SDG No.: _____

Batch Number: 439769 Batch Start Date: 10/04/23 09:33 Batch Analyst: Vallelunga, Diana LBatch Method: 3050B Batch End Date: 10/04/23 12:56

Batch Notes	
Nominal Amount Used	1-2 g g
Blank Soil Lot Number	3549069
Balance ID	SEA241
Balance is Level? (Y/N)	yes
Digestion Tube/Cup ID	3574376
Pipette/Syringe/Dispenser ID	metals prep 2
Analyst ID - Spike Analyst	DLV
Analyst ID - Spike Witness Analyst	JL
Sufficient Volume for Batch QC	yes
Hydrochloric Acid ID	3505341
Nitric Acid ID	3545098
Hydrogen Peroxide ID	3546162
Digestion Unit ID	BLOCK A
Thermometer ID	1108438
Thermometer Location ID	A11
Temperature - Uncorrected - Start	94.0 Degrees C
Temperature - Corrected - Start	93.6 Degrees C
Temperature - Uncorrected - End	94.0 Degrees C
Temperature - Corrected - End	93.6 Degrees C
Digestion Start Time	10/04/2023 10:54
Digestion End Time	10/04/2023 12:56
Batch Comment	hno3/hcl: 1054-1109 hno3: 1130-1230 h2O2: 1241-1256

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

6020B

Page 2 of 2

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins SeattleJob No.: 580-132217-1

SDG No.: _____

Batch Number: 439807Batch Start Date: 10/04/23 11:40Batch Analyst: McKell, Justin SBatch Method: 2540GBatch End Date: 10/04/23 12:50

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	DishWeight	SampleMassWet	SampleMassDry	%_Moisture	%_Solid	
580-132205-A-3		2540G		T	00000.69 g	00005.87 g	00005.47 g	7.722007722007 7 %	92.27799227799 23 %	
580-132205-A-3 DU		2540G		T	00000.69 g	00006.90 g	00006.42 g	7.729468599033 79 %	92.27053140096 62 %	
580-132217-A-2	SB-7-10_20230928	2540G	Solid	T	00000.70 g	00004.87 g	00004.30 g	13.66906474820 14 %	86.33093525179 86 %	
580-132217-A-4	SB-7-20_20230928	2540G	Solid	T	00000.71 g	00006.37 g	00006.01 g	6.360424028268 6 %	93.63957597173 14 %	
580-132217-A-7	SB-7-35_20230928	2540G	Solid	T	00000.67 g	00008.15 g	00006.86 g	17.24598930481 28 %	82.75401069518 72 %	
580-132217-A-8	SB-8-4_20230928	2540G	Solid	T	00000.69 g	00004.81 g	00004.34 g	11.40776699029 13 %	88.59223300970 87 %	
580-132217-A-9	SB-8-10_20230928	2540G	Solid	T	00000.69 g	00005.72 g	00004.71 g	20.07952286282 31 %	79.92047713717 69 %	
580-132217-A-10	SB-8-15_20230928	2540G	Solid	T	00000.65 g	00008.68 g	00007.79 g	11.08343711083 44 %	88.91656288916 56 %	
580-132217-A-11	SB-8-20_20230928	2540G	Solid	T	00000.67 g	00005.93 g	00005.09 g	15.96958174904 94 %	84.03041825095 06 %	
580-132217-A-12	SB-8-25_20230928	2540G	Solid	T	00000.65 g	00006.82 g	00005.86 g	15.55915721231 77 %	84.44084278768 23 %	
580-132217-A-13	SB-8-30_20230928	2540G	Solid	T	00000.65 g	00007.17 g	00006.20 g	14.87730061349 69 %	85.12269938650 31 %	
580-132217-A-14	SB-8-35_20230928	2540G	Solid	T	00000.66 g	00005.62 g	00004.84 g	15.72580645161 29 %	84.27419354838 71 %	

Batch Notes

Balance ID	sea225
Balance is Level? (Y/N)	yes
Oven ID	microwave
Date samples were placed in the oven	10/04/2023
Time samples were place in the oven	11:48
Date samples were removed from oven	10/04/2023
Time Samples were removed from oven	12:49

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

2540G

Page 1 of 1



ANALYTICAL REPORT

PREPARED FOR

Attn: Megan Richard
Antea USA Inc.
18378-B Redmond Way
Redmond, Washington 98052

Generated 1/16/2024 10:04:38 AM

JOB DESCRIPTION

BP - ARCO 11060

JOB NUMBER

580-135260-1

Eurofins Seattle

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northwest, LLC Project Manager.

Compliance Statement

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the BPLAMP Technical Specifications, applicable federal, state, local regulations and certification requirements as well as the methodologies as described in laboratory SOPs reviewed by the BPLAMP. This Laboratory Report is confidential and is intended for the sole use of Eurofins Environment Testing (USA) and its client. This report shall not be reproduced, except in full, without written permission from Eurofins Environment Testing (USA). The signature on the cover page extends to the case narrative and all the data and forms in the package. The Chain of Custody is included and is an integral part of this report.

Authorization



Authorized for release by
Katie Grant, Project Manager I
Katie.Grant@et.eurofinsus.com
(253)922-2310

Generated
1/16/2024 10:04:38 AM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Detection Summary	7
Client Sample Results	10
Surrogate Summary	35
QC Sample Results	40
QC Association Summary	53
Lab Chronicle	64
Certification Summary	77
Method Summary	78
Sample Summary	79
Chain of Custody	80
Receipt Checklists	88
Prep Data	89



Definitions/Glossary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
E	Result exceeded calibration range.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Antea USA Inc.
Project: BP - ARCO 11060

Job ID: 580-135260-1

Job ID: 580-135260-1

Eurofins Seattle

Job Narrative 580-135260-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 12/22/2023 4:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.6°C

GC/MS VOA

Method 8260D: The following samples were provided to the laboratory with a significantly different initial weight than that required by the reference method: SB9-5-20231219 (580-135260-2), SB9-10-20231220 (580-135260-3), SB9-15-20231220 (580-135260-4), SB9-20-20231220 (580-135260-5), SB9-25-20231220 (580-135260-6), MW14-5-20231218 (580-135260-7), MW14-10-20231221 (580-135260-8), MW14-15-20231221 (580-135260-9), MW14-17.5-20231221 (580-135260-10), MW14-20-20231221 (580-135260-11), MW14-30-20231221 (580-135260-13), MW15-5-20231219 (580-135260-14), MW15-10-20231220 (580-135260-15), MW15-10-20231220 (580-135260-16), MW15-20-20231220 (580-135260-17), MW15-25-20231220 (580-135260-18), MW15-30-20231220 (580-135260-19), MW15-35-20231220 (580-135260-20), MW16-5-20231219 (580-135260-21), MW16-10-20231219 (580-135260-22), MW16-15-20231219 (580-135260-23), MW16-20-20231219 (580-135260-24), MW16-25-20231219 (580-135260-25) and MW16-30-20231219 (580-135260-26). Deviations in the weight by more than 20% may affect reporting limits and potentially method performance. The method specifies 5g. The amount provided was above this range.

Method 8260D: Surrogate recovery for the following samples was outside control limits: SB9-20-20231220 (580-135260-5), MW14-17.5-20231221 (580-135260-10), MW14-20-20231221 (580-135260-11), MW15-10-20231220 (580-135260-16) and MW15-25-20231220 (580-135260-18). Evidence of matrix interference is present; samples were re-analyzed in batch 447475.

Method 8260D: Surrogate recovery for the following samples were outside the upper control limit: SB9-20-20231220 (580-135260-5), MW15-10-20231220 (580-135260-16) MW16-15-20231219 (580-135260-23), MW16-20-20231219 (580-135260-24) and MW16-25-20231219 (580-135260-25). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8260D: The following sample had low internal recovery for internal standard: Chlorobenzene-d5. The low internal standard %R creates a high-bias in the sample. As the sample was non-detect for client analytes, the data was deemed acceptable and reported. MW16-20-20231219 (580-135260-24), MW16-25-20231219 (580-135260-25) and MW16-30-20231219 (580-135260-26)

Method 8260D: Surrogate recovery for the following sample was outside of acceptance limits: MW16-30-20231219 (580-135260-26). There was insufficient sample to perform a re-extraction; therefore, the data have been reported.

Method NWTPH_Gx_MS: The following sample was provided to the laboratory with a significantly different initial weight than that required by the reference method: MW14-30-20231221 (580-135260-13). Deviations in the weight by more than 20% may affect reporting limits and potentially method performance. The method specifies 10g. The amount provided was above this range.

Method NWTPH_Gx_MS: Reanalysis of the following sample(s) was performed outside of the analytical holding time due to failure of quality control parameters in the initial analysis. : MW15-5-20231219 (580-135260-14), MW15-10-20231220 (580-135260-16) and MW15-35-20231220 (580-135260-20).

Method NWTPH_Gx_MS: Surrogate 4-Bromofluorobenzene recovery for the following sample was outside control limits: MW15-10-20231220 (580-135260-16). Evidence of matrix interference is present; Sample was Re-analyzed out of holding time within passing criteria.

Eurofins Seattle

Case Narrative

Client: Antea USA Inc.
Project: BP - ARCO 11060

Job ID: 580-135260-1

Job ID: 580-135260-1 (Continued)

Eurofins Seattle

Method NWTPH_Gx_MS: The result for Gasoline was above the upper calibration range and is reported as an Estimated ("E") value in sample: MW15-10-20231220 (580-135260-16) The sample was analyzed out of holding time at dilution with comparable results. Both sets of data are being reported.

Method NWTPH_Gx_MS:CCVs exceeds high control limit. Associated CCV appears to be double spiked. Samples were reanalyzed out of holding time. Both sets of data are being reported. (CCV 580-447311/26) and (CCVIS 580-447311/4)

Method NWTPH_Gx_MS:Samples were rerun out of holding time due to possible carryover and high CCVs. Both sets of data are being reported. MW15-5-20231219 (580-135260-14) and MW15-35-20231220 (580-135260-20)

Method NWTPH_Gx_MS: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW15-10-20231220 (580-135260-16). Elevated reporting limits (RLs) are provided.

Method NWTPH_Gx_MS: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 580-447623 and analytical batch 580-447688 recovered outside control limits for the following analytes: Gasoline.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA

Method 8270E_SIM: The following sample(s) was prepared outside of preparation holding time due to the first extraction's laboratory control sample and control sample duplicate failing to meet recovery acceptance criteria. Both sets of data will be reported: MW16-10-20231219 (580-135260-22), MW16-15-20231219 (580-135260-23), MW16-20-20231219 (580-135260-24), MW16-25-20231219 (580-135260-25), MW16-30-20231219 (580-135260-26), (580-135260-A-22-E MS) and (580-135260-A-22-F MSD).

Method 8270E_SIM: The laboratory control sample failed to meet method acceptance recovery criteria for the following analytes: Naphthalene. The affected samples have been sent back for re-extraction and both sets of data will be reported. MW16-10-20231219 (580-135260-22), MW16-15-20231219 (580-135260-23), MW16-20-20231219 (580-135260-24), MW16-25-20231219 (580-135260-25) and MW16-30-20231219 (580-135260-26)

Method 8270E_SIM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 580-447218 and analytical batch 580-447393 recovered outside control limits for the following analytes: Naphthalene.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method NWTPH_Dx: The following samples were diluted due to the nature of the sample matrix: (580-135139-D-8-A) and (580-135139-D-8-B DU). Elevated reporting limits (RLs) are provided.

Method NWTPH_Dx: The following continuing calibration verification (CCV) standard associated with batch 580-447448 exceeded %Drift criteria for o-Terphenyl (Surr). The associated client and laboratory quality control (QC) samples recovered within, and were not biased into, acceptance limits; therefore, the data have been reported. MW14-17.5-20231221 (580-135260-10), MW14-20-20231221 (580-135260-11), MW14-30-20231221 (580-135260-13), MW15-35-20231220 (580-135260-20), MW16-10-20231219 (580-135260-22), MW16-15-20231219 (580-135260-23), MW16-20-20231219 (580-135260-24), MW16-25-20231219 (580-135260-25), (CCV 580-447448/8), (CCVRT 580-447448/3), (580-135139-D-7-D) and (580-135139-D-7-E DU)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Seattle

Detection Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Client Sample ID: SB9-5-20231219

Lab Sample ID: 580-135260-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Motor Oil (>C24-C36)	240		62	22	mg/Kg	1	✱	NWTPH-Dx	Total/NA
Lead	9.6		0.56	0.054	mg/Kg	10	✱	6020B	Total/NA

Client Sample ID: SB9-10-20231220

Lab Sample ID: 580-135260-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.0013		0.0012	0.00023	mg/Kg	1	✱	8260D	Total/NA
Naphthalene	0.13		0.0055	0.0018	mg/Kg	1	✱	8270E SIM	Total/NA
Motor Oil (>C24-C36)	160		58	20	mg/Kg	1	✱	NWTPH-Dx	Total/NA
Lead	13		0.37	0.035	mg/Kg	10	✱	6020B	Total/NA

Client Sample ID: SB9-15-20231220

Lab Sample ID: 580-135260-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.0075		0.0058	0.0019	mg/Kg	1	✱	8270E SIM	Total/NA
Lead	3.2		0.55	0.053	mg/Kg	10	✱	6020B	Total/NA

Client Sample ID: SB9-20-20231220

Lab Sample ID: 580-135260-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.017		0.0010	0.00020	mg/Kg	1	✱	8260D	Total/NA
Ethylbenzene	0.057		0.0010	0.00049	mg/Kg	1	✱	8260D	Total/NA
Gasoline	120		5.1	0.73	mg/Kg	1	✱	NWTPH-Gx	Total/NA
Naphthalene	0.037		0.0054	0.0018	mg/Kg	1	✱	8270E SIM	Total/NA
Lead	3.2		0.39	0.037	mg/Kg	10	✱	6020B	Total/NA

Client Sample ID: SB9-25-20231220

Lab Sample ID: 580-135260-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.0090		0.00097	0.00019	mg/Kg	1	✱	8260D	Total/NA
Ethylbenzene	0.042		0.00098	0.00047	mg/Kg	1	✱	8260D	Total/NA
m-Xylene & p-Xylene	0.017		0.0049	0.00057	mg/Kg	1	✱	8260D	Total/NA
Xylenes, Total	0.017		0.0049	0.00045	mg/Kg	1	✱	8260D	Total/NA
Gasoline	30		5.3	0.76	mg/Kg	1	✱	NWTPH-Gx	Total/NA
Naphthalene	0.059		0.0054	0.0018	mg/Kg	1	✱	8270E SIM	Total/NA
Lead	3.5		0.39	0.038	mg/Kg	10	✱	6020B	Total/NA

Client Sample ID: MW14-5-20231218

Lab Sample ID: 580-135260-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	4.1		0.51	0.049	mg/Kg	10	✱	6020B	Total/NA

Client Sample ID: MW14-10-20231221

Lab Sample ID: 580-135260-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline	7.4		6.1	0.88	mg/Kg	1	✱	NWTPH-Gx	Total/NA
Lead	5.3		0.61	0.058	mg/Kg	10	✱	6020B	Total/NA

Client Sample ID: MW14-15-20231221

Lab Sample ID: 580-135260-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline	32		5.2	0.74	mg/Kg	1	✱	NWTPH-Gx	Total/NA
Lead	3.6		0.55	0.053	mg/Kg	10	✱	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Seattle

Detection Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Client Sample ID: MW14-17.5-20231221

Lab Sample ID: 580-135260-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.13		0.054	0.012	mg/Kg	1	✱	8260D	Total/NA
m-Xylene & p-Xylene	0.10		0.0058	0.00068	mg/Kg	1	✱	8260D	Total/NA
Xylenes, Total	0.12		0.0058	0.00053	mg/Kg	1	✱	8260D	Total/NA
o-Xylene - RA	0.023		0.0025	0.00046	mg/Kg	1	✱	8260D	Total/NA
Gasoline	130		5.4	0.77	mg/Kg	1	✱	NWTPH-Gx	Total/NA
Naphthalene	0.070		0.0056	0.0018	mg/Kg	1	✱	8270E SIM	Total/NA
Lead	1.8		0.44	0.042	mg/Kg	10	✱	6020B	Total/NA

Client Sample ID: MW14-20-20231221

Lab Sample ID: 580-135260-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.042		0.0012	0.00058	mg/Kg	1	✱	8260D	Total/NA
m-Xylene & p-Xylene	0.040		0.0060	0.00071	mg/Kg	1	✱	8260D	Total/NA
Xylenes, Total	0.048		0.0060	0.00056	mg/Kg	1	✱	8260D	Total/NA
o-Xylene - RA	0.010		0.0029	0.00053	mg/Kg	1	✱	8260D	Total/NA
Gasoline	39		5.3	0.76	mg/Kg	1	✱	NWTPH-Gx	Total/NA
Naphthalene	0.031		0.0055	0.0018	mg/Kg	1	✱	8270E SIM	Total/NA
Lead	1.8		0.48	0.046	mg/Kg	10	✱	6020B	Total/NA

Client Sample ID: MW14-30-20231221

Lab Sample ID: 580-135260-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline	31		4.6	0.66	mg/Kg	1	✱	NWTPH-Gx	Total/NA
Lead	2.7		0.56	0.054	mg/Kg	10	✱	6020B	Total/NA

Client Sample ID: MW15-5-20231219

Lab Sample ID: 580-135260-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline	7.8		6.1	0.87	mg/Kg	1	✱	NWTPH-Gx	Total/NA
Lead	6.4		0.51	0.049	mg/Kg	10	✱	6020B	Total/NA

Client Sample ID: MW15-10-20231220

Lab Sample ID: 580-135260-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Motor Oil (>C24-C36)	68		59	21	mg/Kg	1	✱	NWTPH-Dx	Total/NA
Lead	4.6		0.34	0.033	mg/Kg	10	✱	6020B	Total/NA

Client Sample ID: MW15-10-20231220

Lab Sample ID: 580-135260-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline	1200	H *1	550	79	mg/Kg	1	✱	NWTPH-Gx	Total/NA
Gasoline	1400	E	5.2	0.73	mg/Kg	1	✱	NWTPH-Gx	Total/NA
Naphthalene	0.063		0.0054	0.0017	mg/Kg	1	✱	8270E SIM	Total/NA
#2 Diesel (C10-C24)	120		53	13	mg/Kg	1	✱	NWTPH-Dx	Total/NA
Lead	3.9		0.51	0.049	mg/Kg	10	✱	6020B	Total/NA

Client Sample ID: MW15-20-20231220

Lab Sample ID: 580-135260-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.0033		0.0012	0.00057	mg/Kg	1	✱	8260D	Total/NA
Gasoline	140	*1	4.9	0.69	mg/Kg	1	✱	NWTPH-Gx	Total/NA
Naphthalene	0.016		0.0055	0.0018	mg/Kg	1	✱	8270E SIM	Total/NA
Lead	3.5		0.44	0.042	mg/Kg	10	✱	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Seattle

Detection Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Client Sample ID: MW15-25-20231220

Lab Sample ID: 580-135260-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.0012		0.0012	0.00023	mg/Kg	1	✱	8260D	Total/NA
Ethylbenzene	0.022		0.0012	0.00058	mg/Kg	1	✱	8260D	Total/NA
m-Xylene & p-Xylene	0.013		0.0060	0.00070	mg/Kg	1	✱	8260D	Total/NA
Xylenes, Total	0.013		0.0060	0.00055	mg/Kg	1	✱	8260D	Total/NA
Gasoline	8.6	*1	5.8	0.82	mg/Kg	1	✱	NWTPH-Gx	Total/NA
Naphthalene	0.0098		0.0056	0.0018	mg/Kg	1	✱	8270E SIM	Total/NA
Lead	2.9		0.49	0.047	mg/Kg	10	✱	6020B	Total/NA

Client Sample ID: MW15-30-20231220

Lab Sample ID: 580-135260-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.041		0.0055	0.0018	mg/Kg	1	✱	8270E SIM	Total/NA
Motor Oil (>C24-C36)	69		55	19	mg/Kg	1	✱	NWTPH-Dx	Total/NA
Lead	11		0.51	0.049	mg/Kg	10	✱	6020B	Total/NA

Client Sample ID: MW15-35-20231220

Lab Sample ID: 580-135260-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.0038		0.0013	0.00060	mg/Kg	1	✱	8260D	Total/NA
Gasoline	20	H *1	6.2	0.89	mg/Kg	1	✱	NWTPH-Gx	Total/NA
Gasoline	25		6.2	0.89	mg/Kg	1	✱	NWTPH-Gx	Total/NA
Lead	3.6		0.49	0.047	mg/Kg	10	✱	6020B	Total/NA

Client Sample ID: MW16-5-20231219

Lab Sample ID: 580-135260-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	7.2		0.52	0.050	mg/Kg	10	✱	6020B	Total/NA

Client Sample ID: MW16-10-20231219

Lab Sample ID: 580-135260-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	7.5		0.65	0.062	mg/Kg	10	✱	6020B	Total/NA

Client Sample ID: MW16-15-20231219

Lab Sample ID: 580-135260-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	5.0		0.48	0.046	mg/Kg	10	✱	6020B	Total/NA

Client Sample ID: MW16-20-20231219

Lab Sample ID: 580-135260-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	2.8		0.37	0.036	mg/Kg	10	✱	6020B	Total/NA

Client Sample ID: MW16-25-20231219

Lab Sample ID: 580-135260-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	2.5		0.37	0.035	mg/Kg	10	✱	6020B	Total/NA

Client Sample ID: MW16-30-20231219

Lab Sample ID: 580-135260-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline	9.1		7.0	0.99	mg/Kg	1	✱	NWTPH-Gx	Total/NA
Lead	2.3		0.39	0.038	mg/Kg	10	✱	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Seattle

Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Client Sample ID: SB9-5-20231219

Lab Sample ID: 580-135260-2

Date Collected: 12/19/23 14:15

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 75.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0013	0.00026	mg/Kg	☆	12/28/23 15:56	12/28/23 18:17	1
Ethylbenzene	ND		0.0013	0.00063	mg/Kg	☆	12/28/23 15:56	12/28/23 18:17	1
Methyl tert-butyl ether	ND		0.0013	0.00020	mg/Kg	☆	12/28/23 15:56	12/28/23 18:17	1
m-Xylene & p-Xylene	ND		0.0065	0.00077	mg/Kg	☆	12/28/23 15:56	12/28/23 18:17	1
Toluene	ND		0.0065	0.00085	mg/Kg	☆	12/28/23 15:56	12/28/23 18:17	1
Xylenes, Total	ND		0.0065	0.00060	mg/Kg	☆	12/28/23 15:56	12/28/23 18:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		80 - 120	12/28/23 15:56	12/28/23 18:17	1
4-Bromofluorobenzene (Surr)	99		80 - 120	12/28/23 15:56	12/28/23 18:17	1
Dibromofluoromethane (Surr)	108		80 - 120	12/28/23 15:56	12/28/23 18:17	1
1,2-Dichloroethane-d4 (Surr)	117		80 - 121	12/28/23 15:56	12/28/23 18:17	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.0031	0.00056	mg/Kg	☆	12/29/23 18:13	12/29/23 21:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		80 - 120	12/29/23 18:13	12/29/23 21:37	1
4-Bromofluorobenzene (Surr)	104		80 - 120	12/29/23 18:13	12/29/23 21:37	1
Dibromofluoromethane (Surr)	106		80 - 120	12/29/23 18:13	12/29/23 21:37	1
1,2-Dichloroethane-d4 (Surr)	118		80 - 121	12/29/23 18:13	12/29/23 21:37	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		6.6	0.95	mg/Kg	☆	12/29/23 14:31	12/29/23 21:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		66 - 125	12/29/23 14:31	12/29/23 21:42	1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.0062	0.0020	mg/Kg	☆	12/27/23 13:09	01/03/24 16:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	91		57 - 145	12/27/23 13:09	01/03/24 16:34	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		62	15	mg/Kg	☆	12/28/23 14:45	01/04/24 15:52	1
Motor Oil (>C24-C36)	240		62	22	mg/Kg	☆	12/28/23 14:45	01/04/24 15:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	101		50 - 150	12/28/23 14:45	01/04/24 15:52	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.6		0.56	0.054	mg/Kg	☆	12/29/23 11:16	01/04/24 11:38	10

Eurofins Seattle

Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Client Sample ID: SB9-10-20231220

Lab Sample ID: 580-135260-3

Date Collected: 12/20/23 14:10

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 82.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0013		0.0012	0.00023	mg/Kg	☆	12/28/23 15:56	12/28/23 18:36	1
Ethylbenzene	ND		0.0012	0.00057	mg/Kg	☆	12/28/23 15:56	12/28/23 18:36	1
Methyl tert-butyl ether	ND		0.0012	0.00018	mg/Kg	☆	12/28/23 15:56	12/28/23 18:36	1
m-Xylene & p-Xylene	ND		0.0059	0.00069	mg/Kg	☆	12/28/23 15:56	12/28/23 18:36	1
Toluene	ND		0.0059	0.00077	mg/Kg	☆	12/28/23 15:56	12/28/23 18:36	1
Xylenes, Total	ND		0.0059	0.00054	mg/Kg	☆	12/28/23 15:56	12/28/23 18:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120	12/28/23 15:56	12/28/23 18:36	1
4-Bromofluorobenzene (Surr)	101		80 - 120	12/28/23 15:56	12/28/23 18:36	1
Dibromofluoromethane (Surr)	108		80 - 120	12/28/23 15:56	12/28/23 18:36	1
1,2-Dichloroethane-d4 (Surr)	121		80 - 121	12/28/23 15:56	12/28/23 18:36	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.0029	0.00054	mg/Kg	☆	12/29/23 18:13	12/29/23 21:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		80 - 120	12/29/23 18:13	12/29/23 21:56	1
4-Bromofluorobenzene (Surr)	98		80 - 120	12/29/23 18:13	12/29/23 21:56	1
Dibromofluoromethane (Surr)	104		80 - 120	12/29/23 18:13	12/29/23 21:56	1
1,2-Dichloroethane-d4 (Surr)	116		80 - 121	12/29/23 18:13	12/29/23 21:56	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		5.4	0.77	mg/Kg	☆	12/29/23 14:31	12/29/23 22:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		66 - 125	12/29/23 14:31	12/29/23 22:04	1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	0.13		0.0055	0.0018	mg/Kg	☆	12/27/23 13:09	01/03/24 17:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	92		57 - 145	12/27/23 13:09	01/03/24 17:48	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		58	14	mg/Kg	☆	12/28/23 14:45	01/04/24 16:31	1
Motor Oil (>C24-C36)	160		58	20	mg/Kg	☆	12/28/23 14:45	01/04/24 16:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	111		50 - 150	12/28/23 14:45	01/04/24 16:31	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	13		0.37	0.035	mg/Kg	☆	12/29/23 11:16	01/04/24 11:40	10

Eurofins Seattle

Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Client Sample ID: SB9-15-20231220

Lab Sample ID: 580-135260-4

Date Collected: 12/20/23 14:25

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 84.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0011	0.00021	mg/Kg	☆	12/28/23 15:56	12/28/23 18:55	1
Ethylbenzene	ND		0.0011	0.00053	mg/Kg	☆	12/28/23 15:56	12/28/23 18:55	1
Methyl tert-butyl ether	ND		0.0011	0.00017	mg/Kg	☆	12/28/23 15:56	12/28/23 18:55	1
m-Xylene & p-Xylene	ND		0.0055	0.00064	mg/Kg	☆	12/28/23 15:56	12/28/23 18:55	1
Toluene	ND		0.0055	0.00072	mg/Kg	☆	12/28/23 15:56	12/28/23 18:55	1
Xylenes, Total	ND		0.0055	0.00051	mg/Kg	☆	12/28/23 15:56	12/28/23 18:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		80 - 120	12/28/23 15:56	12/28/23 18:55	1
4-Bromofluorobenzene (Surr)	100		80 - 120	12/28/23 15:56	12/28/23 18:55	1
Dibromofluoromethane (Surr)	107		80 - 120	12/28/23 15:56	12/28/23 18:55	1
1,2-Dichloroethane-d4 (Surr)	118		80 - 121	12/28/23 15:56	12/28/23 18:55	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.0028	0.00052	mg/Kg	☆	12/29/23 18:13	12/29/23 22:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		80 - 120	12/29/23 18:13	12/29/23 22:15	1
4-Bromofluorobenzene (Surr)	99		80 - 120	12/29/23 18:13	12/29/23 22:15	1
Dibromofluoromethane (Surr)	101		80 - 120	12/29/23 18:13	12/29/23 22:15	1
1,2-Dichloroethane-d4 (Surr)	115		80 - 121	12/29/23 18:13	12/29/23 22:15	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		5.5	0.78	mg/Kg	☆	12/29/23 14:31	12/29/23 22:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		66 - 125	12/29/23 14:31	12/29/23 22:26	1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	0.0075		0.0058	0.0019	mg/Kg	☆	12/27/23 13:09	01/03/24 18:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	89		57 - 145	12/27/23 13:09	01/03/24 18:12	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		56	14	mg/Kg	☆	12/28/23 14:45	01/04/24 16:51	1
Motor Oil (>C24-C36)	ND		56	20	mg/Kg	☆	12/28/23 14:45	01/04/24 16:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	100		50 - 150	12/28/23 14:45	01/04/24 16:51	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3.2		0.55	0.053	mg/Kg	☆	12/29/23 11:16	01/04/24 11:43	10

Eurofins Seattle

Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Client Sample ID: SB9-20-20231220

Lab Sample ID: 580-135260-5

Date Collected: 12/20/23 14:58

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 87.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.017		0.0010	0.00020	mg/Kg	☆	12/28/23 15:56	12/28/23 19:14	1
Ethylbenzene	0.057		0.0010	0.00049	mg/Kg	☆	12/28/23 15:56	12/28/23 19:14	1
Methyl tert-butyl ether	ND		0.0010	0.00015	mg/Kg	☆	12/28/23 15:56	12/28/23 19:14	1
m-Xylene & p-Xylene	ND		0.0051	0.00059	mg/Kg	☆	12/28/23 15:56	12/28/23 19:14	1
Toluene	ND		0.0051	0.00066	mg/Kg	☆	12/28/23 15:56	12/28/23 19:14	1
Xylenes, Total	ND		0.0051	0.00047	mg/Kg	☆	12/28/23 15:56	12/28/23 19:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	156	S1+	80 - 120	12/28/23 15:56	12/28/23 19:14	1
4-Bromofluorobenzene (Surr)	96		80 - 120	12/28/23 15:56	12/28/23 19:14	1
Dibromofluoromethane (Surr)	82		80 - 120	12/28/23 15:56	12/28/23 19:14	1
1,2-Dichloroethane-d4 (Surr)	92		80 - 121	12/28/23 15:56	12/28/23 19:14	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.0028	0.00051	mg/Kg	☆	12/29/23 18:13	12/29/23 22:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	132	S1+	80 - 120	12/29/23 18:13	12/29/23 22:35	1
4-Bromofluorobenzene (Surr)	94		80 - 120	12/29/23 18:13	12/29/23 22:35	1
Dibromofluoromethane (Surr)	83		80 - 120	12/29/23 18:13	12/29/23 22:35	1
1,2-Dichloroethane-d4 (Surr)	94		80 - 121	12/29/23 18:13	12/29/23 22:35	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	120		5.1	0.73	mg/Kg	☆	12/29/23 14:31	12/29/23 22:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		66 - 125	12/29/23 14:31	12/29/23 22:47	1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	0.037		0.0054	0.0018	mg/Kg	☆	12/27/23 13:09	01/03/24 18:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	91		57 - 145	12/27/23 13:09	01/03/24 18:37	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		54	13	mg/Kg	☆	12/28/23 14:45	01/04/24 17:10	1
Motor Oil (>C24-C36)	ND		54	19	mg/Kg	☆	12/28/23 14:45	01/04/24 17:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	98		50 - 150	12/28/23 14:45	01/04/24 17:10	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3.2		0.39	0.037	mg/Kg	☆	12/29/23 11:16	01/04/24 11:46	10

Eurofins Seattle

Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Client Sample ID: SB9-25-20231220

Lab Sample ID: 580-135260-6

Date Collected: 12/20/23 15:20

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 84.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0090		0.00097	0.00019	mg/Kg	☆	12/28/23 15:56	12/28/23 19:33	1
Ethylbenzene	0.042		0.00098	0.00047	mg/Kg	☆	12/28/23 15:56	12/28/23 19:33	1
Methyl tert-butyl ether	ND		0.00097	0.00015	mg/Kg	☆	12/28/23 15:56	12/28/23 19:33	1
m-Xylene & p-Xylene	0.017		0.0049	0.00057	mg/Kg	☆	12/28/23 15:56	12/28/23 19:33	1
Toluene	ND		0.0049	0.00063	mg/Kg	☆	12/28/23 15:56	12/28/23 19:33	1
Xylenes, Total	0.017		0.0049	0.00045	mg/Kg	☆	12/28/23 15:56	12/28/23 19:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	107		80 - 120	12/28/23 15:56	12/28/23 19:33	1
4-Bromofluorobenzene (Surr)	91		80 - 120	12/28/23 15:56	12/28/23 19:33	1
Dibromofluoromethane (Surr)	86		80 - 120	12/28/23 15:56	12/28/23 19:33	1
1,2-Dichloroethane-d4 (Surr)	97		80 - 121	12/28/23 15:56	12/28/23 19:33	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.0030	0.00056	mg/Kg	☆	12/29/23 18:13	12/29/23 22:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		80 - 120	12/29/23 18:13	12/29/23 22:54	1
4-Bromofluorobenzene (Surr)	91		80 - 120	12/29/23 18:13	12/29/23 22:54	1
Dibromofluoromethane (Surr)	87		80 - 120	12/29/23 18:13	12/29/23 22:54	1
1,2-Dichloroethane-d4 (Surr)	98		80 - 121	12/29/23 18:13	12/29/23 22:54	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	30		5.3	0.76	mg/Kg	☆	12/29/23 14:31	12/29/23 23:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		66 - 125	12/29/23 14:31	12/29/23 23:09	1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	0.059		0.0054	0.0018	mg/Kg	☆	12/27/23 13:09	01/03/24 19:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	88		57 - 145	12/27/23 13:09	01/03/24 19:01	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		58	14	mg/Kg	☆	12/28/23 14:45	01/04/24 17:30	1
Motor Oil (>C24-C36)	ND		58	20	mg/Kg	☆	12/28/23 14:45	01/04/24 17:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	99		50 - 150	12/28/23 14:45	01/04/24 17:30	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3.5		0.39	0.038	mg/Kg	☆	12/29/23 11:16	01/04/24 12:05	10

Eurofins Seattle

Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Client Sample ID: MW14-5-20231218

Lab Sample ID: 580-135260-7

Date Collected: 12/18/23 12:55

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 86.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0011	0.00022	mg/Kg	☆	12/28/23 15:56	12/28/23 19:52	1
Ethylbenzene	ND		0.0012	0.00055	mg/Kg	☆	12/28/23 15:56	12/28/23 19:52	1
Methyl tert-butyl ether	ND		0.0011	0.00017	mg/Kg	☆	12/28/23 15:56	12/28/23 19:52	1
m-Xylene & p-Xylene	ND		0.0057	0.00067	mg/Kg	☆	12/28/23 15:56	12/28/23 19:52	1
Toluene	ND		0.0057	0.00074	mg/Kg	☆	12/28/23 15:56	12/28/23 19:52	1
Xylenes, Total	ND		0.0057	0.00053	mg/Kg	☆	12/28/23 15:56	12/28/23 19:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		80 - 120	12/28/23 15:56	12/28/23 19:52	1
4-Bromofluorobenzene (Surr)	99		80 - 120	12/28/23 15:56	12/28/23 19:52	1
Dibromofluoromethane (Surr)	104		80 - 120	12/28/23 15:56	12/28/23 19:52	1
1,2-Dichloroethane-d4 (Surr)	114		80 - 121	12/28/23 15:56	12/28/23 19:52	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.0029	0.00053	mg/Kg	☆	12/29/23 18:13	12/29/23 23:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		80 - 120	12/29/23 18:13	12/29/23 23:13	1
4-Bromofluorobenzene (Surr)	101		80 - 120	12/29/23 18:13	12/29/23 23:13	1
Dibromofluoromethane (Surr)	101		80 - 120	12/29/23 18:13	12/29/23 23:13	1
1,2-Dichloroethane-d4 (Surr)	114		80 - 121	12/29/23 18:13	12/29/23 23:13	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		4.8	0.69	mg/Kg	☆	12/29/23 14:31	12/29/23 23:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		66 - 125	12/29/23 14:31	12/29/23 23:52	1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.0053	0.0017	mg/Kg	☆	12/27/23 13:09	01/03/24 19:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	91		57 - 145	12/27/23 13:09	01/03/24 19:26	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		57	14	mg/Kg	☆	12/28/23 14:45	01/04/24 17:50	1
Motor Oil (>C24-C36)	ND		57	20	mg/Kg	☆	12/28/23 14:45	01/04/24 17:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	99		50 - 150	12/28/23 14:45	01/04/24 17:50	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	4.1		0.51	0.049	mg/Kg	☆	12/29/23 11:16	01/04/24 12:07	10

Eurofins Seattle

Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Client Sample ID: MW14-10-20231221

Lab Sample ID: 580-135260-8

Date Collected: 12/21/23 09:20

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 77.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0012	0.00023	mg/Kg	☆	12/28/23 15:56	12/28/23 20:11	1
Ethylbenzene	ND		0.0012	0.00057	mg/Kg	☆	12/28/23 15:56	12/28/23 20:11	1
Methyl tert-butyl ether	ND		0.0012	0.00018	mg/Kg	☆	12/28/23 15:56	12/28/23 20:11	1
m-Xylene & p-Xylene	ND		0.0059	0.00069	mg/Kg	☆	12/28/23 15:56	12/28/23 20:11	1
Toluene	ND		0.0059	0.00077	mg/Kg	☆	12/28/23 15:56	12/28/23 20:11	1
Xylenes, Total	ND		0.0059	0.00054	mg/Kg	☆	12/28/23 15:56	12/28/23 20:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120	12/28/23 15:56	12/28/23 20:11	1
4-Bromofluorobenzene (Surr)	97		80 - 120	12/28/23 15:56	12/28/23 20:11	1
Dibromofluoromethane (Surr)	101		80 - 120	12/28/23 15:56	12/28/23 20:11	1
1,2-Dichloroethane-d4 (Surr)	112		80 - 121	12/28/23 15:56	12/28/23 20:11	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.0027	0.00051	mg/Kg	☆	12/29/23 18:13	12/29/23 23:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		80 - 120	12/29/23 18:13	12/29/23 23:32	1
4-Bromofluorobenzene (Surr)	99		80 - 120	12/29/23 18:13	12/29/23 23:32	1
Dibromofluoromethane (Surr)	101		80 - 120	12/29/23 18:13	12/29/23 23:32	1
1,2-Dichloroethane-d4 (Surr)	113		80 - 121	12/29/23 18:13	12/29/23 23:32	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	7.4		6.1	0.88	mg/Kg	☆	12/29/23 14:31	12/30/23 00:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		66 - 125	12/29/23 14:31	12/30/23 00:14	1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.0063	0.0020	mg/Kg	☆	12/27/23 13:09	01/03/24 19:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	87		57 - 145	12/27/23 13:09	01/03/24 19:50	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		61	15	mg/Kg	☆	12/28/23 14:45	01/04/24 18:30	1
Motor Oil (>C24-C36)	ND		61	21	mg/Kg	☆	12/28/23 14:45	01/04/24 18:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	95		50 - 150	12/28/23 14:45	01/04/24 18:30	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	5.3		0.61	0.058	mg/Kg	☆	01/02/24 09:49	01/04/24 12:10	10

Eurofins Seattle

Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Client Sample ID: MW14-15-20231221

Lab Sample ID: 580-135260-9

Date Collected: 12/21/23 09:30

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 80.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0012	0.00024	mg/Kg	☆	12/28/23 15:56	12/28/23 20:31	1
Ethylbenzene	ND		0.0012	0.00060	mg/Kg	☆	12/28/23 15:56	12/28/23 20:31	1
Methyl tert-butyl ether	ND		0.0012	0.00019	mg/Kg	☆	12/28/23 15:56	12/28/23 20:31	1
m-Xylene & p-Xylene	ND		0.0062	0.00073	mg/Kg	☆	12/28/23 15:56	12/28/23 20:31	1
Toluene	ND		0.0062	0.00081	mg/Kg	☆	12/28/23 15:56	12/28/23 20:31	1
Xylenes, Total	ND		0.0062	0.00057	mg/Kg	☆	12/28/23 15:56	12/28/23 20:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120	12/28/23 15:56	12/28/23 20:31	1
4-Bromofluorobenzene (Surr)	94		80 - 120	12/28/23 15:56	12/28/23 20:31	1
Dibromofluoromethane (Surr)	99		80 - 120	12/28/23 15:56	12/28/23 20:31	1
1,2-Dichloroethane-d4 (Surr)	109		80 - 121	12/28/23 15:56	12/28/23 20:31	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.0031	0.00057	mg/Kg	☆	12/29/23 18:13	12/29/23 23:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		80 - 120	12/29/23 18:13	12/29/23 23:51	1
4-Bromofluorobenzene (Surr)	94		80 - 120	12/29/23 18:13	12/29/23 23:51	1
Dibromofluoromethane (Surr)	91		80 - 120	12/29/23 18:13	12/29/23 23:51	1
1,2-Dichloroethane-d4 (Surr)	102		80 - 121	12/29/23 18:13	12/29/23 23:51	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	32		5.2	0.74	mg/Kg	☆	12/29/23 14:31	12/30/23 00:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		66 - 125	12/29/23 14:31	12/30/23 00:36	1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.0057	0.0019	mg/Kg	☆	12/27/23 13:09	01/03/24 20:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	92		57 - 145	12/27/23 13:09	01/03/24 20:15	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		59	15	mg/Kg	☆	12/28/23 14:45	01/04/24 18:50	1
Motor Oil (>C24-C36)	ND		59	21	mg/Kg	☆	12/28/23 14:45	01/04/24 18:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	99		50 - 150	12/28/23 14:45	01/04/24 18:50	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3.6		0.55	0.053	mg/Kg	☆	01/02/24 09:49	01/04/24 12:13	10

Eurofins Seattle

Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Client Sample ID: MW14-17.5-20231221

Lab Sample ID: 580-135260-10

Date Collected: 12/21/23 09:35

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 86.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0012	0.00023	mg/Kg	☆	12/28/23 15:56	12/28/23 20:50	1
Ethylbenzene	0.13		0.054	0.012	mg/Kg	☆	12/28/23 16:36	12/29/23 04:41	1
Methyl tert-butyl ether	ND		0.0012	0.00017	mg/Kg	☆	12/28/23 15:56	12/28/23 20:50	1
m-Xylene & p-Xylene	0.10		0.0058	0.00068	mg/Kg	☆	12/28/23 15:56	12/28/23 20:50	1
Toluene	ND		0.0058	0.00075	mg/Kg	☆	12/28/23 15:56	12/28/23 20:50	1
Xylenes, Total	0.12		0.0058	0.00053	mg/Kg	☆	12/28/23 15:56	12/28/23 20:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		80 - 121	12/28/23 16:36	12/29/23 04:41	1
Toluene-d8 (Surr)	455	S1+	80 - 120	12/28/23 15:56	12/28/23 20:50	1
4-Bromofluorobenzene (Surr)	92		80 - 120	12/28/23 15:56	12/28/23 20:50	1
4-Bromofluorobenzene (Surr)	99		80 - 120	12/28/23 16:36	12/29/23 04:41	1
Dibromofluoromethane (Surr)	83		80 - 120	12/28/23 15:56	12/28/23 20:50	1
1,2-Dichloroethane-d4 (Surr)	93		80 - 121	12/28/23 15:56	12/28/23 20:50	1
Dibromofluoromethane (Surr)	96		80 - 120	12/28/23 16:36	12/29/23 04:41	1
Toluene-d8 (Surr)	103		80 - 120	12/28/23 16:36	12/29/23 04:41	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.023		0.0025	0.00046	mg/Kg	☆	12/29/23 18:13	12/30/23 00:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	470	S1+	80 - 120	12/29/23 18:13	12/30/23 00:11	1
4-Bromofluorobenzene (Surr)	92		80 - 120	12/29/23 18:13	12/30/23 00:11	1
Dibromofluoromethane (Surr)	80		80 - 120	12/29/23 18:13	12/30/23 00:11	1
1,2-Dichloroethane-d4 (Surr)	91		80 - 121	12/29/23 18:13	12/30/23 00:11	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	130		5.4	0.77	mg/Kg	☆	12/29/23 14:31	12/30/23 00:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		66 - 125	12/29/23 14:31	12/30/23 00:57	1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	0.070		0.0056	0.0018	mg/Kg	☆	12/27/23 13:09	01/03/24 20:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	94		57 - 145	12/27/23 13:09	01/03/24 20:40	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		55	14	mg/Kg	☆	12/28/23 15:32	12/29/23 21:39	1
Motor Oil (>C24-C36)	ND		55	19	mg/Kg	☆	12/28/23 15:32	12/29/23 21:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	97		50 - 150	12/28/23 15:32	12/29/23 21:39	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.8		0.44	0.042	mg/Kg	☆	01/02/24 09:49	01/04/24 12:16	10

Eurofins Seattle

Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Client Sample ID: MW14-20-20231221

Lab Sample ID: 580-135260-11

Date Collected: 12/21/23 09:40

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 87.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0012	0.00024	mg/Kg	☆	12/28/23 15:56	12/28/23 21:09	1
Ethylbenzene	0.042		0.0012	0.00058	mg/Kg	☆	12/28/23 15:56	12/28/23 21:09	1
Methyl tert-butyl ether	ND		0.0012	0.00018	mg/Kg	☆	12/28/23 15:56	12/28/23 21:09	1
m-Xylene & p-Xylene	0.040		0.0060	0.00071	mg/Kg	☆	12/28/23 15:56	12/28/23 21:09	1
Toluene	ND		0.0060	0.00078	mg/Kg	☆	12/28/23 15:56	12/28/23 21:09	1
Xylenes, Total	0.048		0.0060	0.00056	mg/Kg	☆	12/28/23 15:56	12/28/23 21:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	141	S1+	80 - 120	12/28/23 15:56	12/28/23 21:09	1
4-Bromofluorobenzene (Surr)	91		80 - 120	12/28/23 15:56	12/28/23 21:09	1
Dibromofluoromethane (Surr)	81		80 - 120	12/28/23 15:56	12/28/23 21:09	1
1,2-Dichloroethane-d4 (Surr)	90		80 - 121	12/28/23 15:56	12/28/23 21:09	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.010		0.0029	0.00053	mg/Kg	☼	12/29/23 18:13	12/30/23 00:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	187	S1+	80 - 120				12/29/23 18:13	12/30/23 00:30	1
4-Bromofluorobenzene (Surr)	90		80 - 120				12/29/23 18:13	12/30/23 00:30	1
Dibromofluoromethane (Surr)	80		80 - 120				12/29/23 18:13	12/30/23 00:30	1
1,2-Dichloroethane-d4 (Surr)	91		80 - 121				12/29/23 18:13	12/30/23 00:30	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	39		5.3	0.76	mg/Kg	☼	12/29/23 14:31	12/30/23 01:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		66 - 125				12/29/23 14:31	12/30/23 01:19	1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	0.031		0.0055	0.0018	mg/Kg	☼	12/27/23 13:09	01/03/24 21:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Terphenyl-d14	89		57 - 145				12/27/23 13:09	01/03/24 21:04	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		52	13	mg/Kg	☼	12/28/23 15:32	12/29/23 21:59	1
Motor Oil (>C24-C36)	ND		52	18	mg/Kg	☼	12/28/23 15:32	12/29/23 21:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	94		50 - 150				12/28/23 15:32	12/29/23 21:59	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.8		0.48	0.046	mg/Kg	☆	01/02/24 09:49	01/04/24 12:18	10

Eurofins Seattle

Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Client Sample ID: MW14-30-20231221

Lab Sample ID: 580-135260-13

Date Collected: 12/21/23 10:17

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 79.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0012	0.00024	mg/Kg	☆	12/28/23 15:56	12/28/23 21:29	1
Ethylbenzene	ND		0.0012	0.00059	mg/Kg	☆	12/28/23 15:56	12/28/23 21:29	1
Methyl tert-butyl ether	ND		0.0012	0.00019	mg/Kg	☆	12/28/23 15:56	12/28/23 21:29	1
m-Xylene & p-Xylene	ND		0.0062	0.00072	mg/Kg	☆	12/28/23 15:56	12/28/23 21:29	1
Toluene	ND		0.0062	0.00080	mg/Kg	☆	12/28/23 15:56	12/28/23 21:29	1
Xylenes, Total	ND		0.0062	0.00057	mg/Kg	☆	12/28/23 15:56	12/28/23 21:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120	12/28/23 15:56	12/28/23 21:29	1
4-Bromofluorobenzene (Surr)	95		80 - 120	12/28/23 15:56	12/28/23 21:29	1
Dibromofluoromethane (Surr)	91		80 - 120	12/28/23 15:56	12/28/23 21:29	1
1,2-Dichloroethane-d4 (Surr)	100		80 - 121	12/28/23 15:56	12/28/23 21:29	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.0026	0.00047	mg/Kg	☆	12/29/23 18:13	12/30/23 00:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	109		80 - 120	12/29/23 18:13	12/30/23 00:49	1
4-Bromofluorobenzene (Surr)	93		80 - 120	12/29/23 18:13	12/30/23 00:49	1
Dibromofluoromethane (Surr)	87		80 - 120	12/29/23 18:13	12/30/23 00:49	1
1,2-Dichloroethane-d4 (Surr)	97		80 - 121	12/29/23 18:13	12/30/23 00:49	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	31		4.6	0.66	mg/Kg	☆	12/29/23 14:31	12/30/23 01:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		66 - 125	12/29/23 14:31	12/30/23 01:40	1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.0060	0.0019	mg/Kg	☆	12/27/23 13:09	01/03/24 21:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	93		57 - 145	12/27/23 13:09	01/03/24 21:29	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		62	15	mg/Kg	☆	12/28/23 15:32	12/29/23 22:19	1
Motor Oil (>C24-C36)	ND		62	22	mg/Kg	☆	12/28/23 15:32	12/29/23 22:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	94		50 - 150	12/28/23 15:32	12/29/23 22:19	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.7		0.56	0.054	mg/Kg	☆	01/02/24 09:49	01/04/24 12:21	10

Eurofins Seattle

Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Client Sample ID: MW15-5-20231219

Lab Sample ID: 580-135260-14

Date Collected: 12/19/23 10:20

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 79.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0012	0.00024	mg/Kg	☆	12/28/23 15:56	12/28/23 21:48	1
Ethylbenzene	ND		0.0012	0.00058	mg/Kg	☆	12/28/23 15:56	12/28/23 21:48	1
Methyl tert-butyl ether	ND		0.0012	0.00018	mg/Kg	☆	12/28/23 15:56	12/28/23 21:48	1
m-Xylene & p-Xylene	ND		0.0060	0.00071	mg/Kg	☆	12/28/23 15:56	12/28/23 21:48	1
Toluene	ND		0.0060	0.00079	mg/Kg	☆	12/28/23 15:56	12/28/23 21:48	1
Xylenes, Total	ND		0.0060	0.00056	mg/Kg	☆	12/28/23 15:56	12/28/23 21:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		80 - 120	12/28/23 15:56	12/28/23 21:48	1
4-Bromofluorobenzene (Surr)	97		80 - 120	12/28/23 15:56	12/28/23 21:48	1
Dibromofluoromethane (Surr)	97		80 - 120	12/28/23 15:56	12/28/23 21:48	1
1,2-Dichloroethane-d4 (Surr)	109		80 - 121	12/28/23 15:56	12/28/23 21:48	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.0030	0.00055	mg/Kg	☆	12/29/23 18:13	12/30/23 01:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		80 - 120	12/29/23 18:13	12/30/23 01:09	1
4-Bromofluorobenzene (Surr)	96		80 - 120	12/29/23 18:13	12/30/23 01:09	1
Dibromofluoromethane (Surr)	99		80 - 120	12/29/23 18:13	12/30/23 01:09	1
1,2-Dichloroethane-d4 (Surr)	112		80 - 121	12/29/23 18:13	12/30/23 01:09	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	7.8		6.1	0.87	mg/Kg	☆	12/28/23 16:36	12/29/23 05:46	1
Gasoline	ND	H *1	6.1	0.87	mg/Kg	☆	01/03/24 11:16	01/03/24 22:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		66 - 125	12/28/23 16:36	12/29/23 05:46	1
4-Bromofluorobenzene (Surr)	91		66 - 125	01/03/24 11:16	01/03/24 22:15	1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.0063	0.0020	mg/Kg	☆	12/27/23 13:09	01/03/24 21:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	94		57 - 145	12/27/23 13:09	01/03/24 21:53	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		61	15	mg/Kg	☆	12/28/23 15:32	12/29/23 21:39	1
Motor Oil (>C24-C36)	ND		61	21	mg/Kg	☆	12/28/23 15:32	12/29/23 21:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	87		50 - 150	12/28/23 15:32	12/29/23 21:39	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	6.4		0.51	0.049	mg/Kg	☆	01/02/24 09:52	01/05/24 14:54	10

Eurofins Seattle

Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Client Sample ID: MW15-10-20231220

Lab Sample ID: 580-135260-15

Date Collected: 12/20/23 09:55

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 80.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0011	0.00022	mg/Kg	☆	12/28/23 15:56	12/28/23 22:07	1
Ethylbenzene	ND		0.0011	0.00053	mg/Kg	☆	12/28/23 15:56	12/28/23 22:07	1
Methyl tert-butyl ether	ND		0.0011	0.00017	mg/Kg	☆	12/28/23 15:56	12/28/23 22:07	1
m-Xylene & p-Xylene	ND		0.0055	0.00065	mg/Kg	☆	12/28/23 15:56	12/28/23 22:07	1
Toluene	ND		0.0055	0.00072	mg/Kg	☆	12/28/23 15:56	12/28/23 22:07	1
Xylenes, Total	ND		0.0055	0.00051	mg/Kg	☆	12/28/23 15:56	12/28/23 22:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120	12/28/23 15:56	12/28/23 22:07	1
4-Bromofluorobenzene (Surr)	99		80 - 120	12/28/23 15:56	12/28/23 22:07	1
Dibromofluoromethane (Surr)	94		80 - 120	12/28/23 15:56	12/28/23 22:07	1
1,2-Dichloroethane-d4 (Surr)	105		80 - 121	12/28/23 15:56	12/28/23 22:07	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.0031	0.00057	mg/Kg	☆	12/29/23 18:13	12/30/23 01:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		80 - 120	12/29/23 18:13	12/30/23 01:28	1
4-Bromofluorobenzene (Surr)	99		80 - 120	12/29/23 18:13	12/30/23 01:28	1
Dibromofluoromethane (Surr)	93		80 - 120	12/29/23 18:13	12/30/23 01:28	1
1,2-Dichloroethane-d4 (Surr)	107		80 - 121	12/29/23 18:13	12/30/23 01:28	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND	*1	5.8	0.82	mg/Kg	☆	01/03/24 11:16	01/03/24 22:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		66 - 125	01/03/24 11:16	01/03/24 22:37	1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.0059	0.0019	mg/Kg	☆	12/27/23 13:09	01/03/24 22:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	91		57 - 145	12/27/23 13:09	01/03/24 22:18	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		59	14	mg/Kg	☆	12/28/23 15:32	12/29/23 22:39	1
Motor Oil (>C24-C36)	68		59	21	mg/Kg	☆	12/28/23 15:32	12/29/23 22:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	84		50 - 150	12/28/23 15:32	12/29/23 22:39	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	4.6		0.34	0.033	mg/Kg	☆	01/02/24 09:52	01/05/24 15:34	10

Eurofins Seattle

Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Client Sample ID: MW15-10-20231220

Lab Sample ID: 580-135260-16

Date Collected: 12/20/23 10:10

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 87.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010	0.00020	mg/Kg	☆	12/28/23 15:56	12/28/23 22:26	1
Ethylbenzene	ND		0.0010	0.00048	mg/Kg	☆	12/28/23 15:56	12/28/23 22:26	1
Methyl tert-butyl ether	ND		0.0010	0.00015	mg/Kg	☆	12/28/23 15:56	12/28/23 22:26	1
m-Xylene & p-Xylene	ND		0.0050	0.00059	mg/Kg	☆	12/28/23 15:56	12/28/23 22:26	1
Toluene	ND		0.0050	0.00065	mg/Kg	☆	12/28/23 15:56	12/28/23 22:26	1
Xylenes, Total	ND		0.0050	0.00046	mg/Kg	☆	12/28/23 15:56	12/28/23 22:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	173	S1+	80 - 120	12/28/23 15:56	12/28/23 22:26	1
4-Bromofluorobenzene (Surr)	91		80 - 120	12/28/23 15:56	12/28/23 22:26	1
Dibromofluoromethane (Surr)	83		80 - 120	12/28/23 15:56	12/28/23 22:26	1
1,2-Dichloroethane-d4 (Surr)	94		80 - 121	12/28/23 15:56	12/28/23 22:26	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.0028	0.00052	mg/Kg	☆	12/29/23 18:13	12/30/23 01:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	173	S1+	80 - 120	12/29/23 18:13	12/30/23 01:47	1
4-Bromofluorobenzene (Surr)	89		80 - 120	12/29/23 18:13	12/30/23 01:47	1
Dibromofluoromethane (Surr)	82		80 - 120	12/29/23 18:13	12/30/23 01:47	1
1,2-Dichloroethane-d4 (Surr)	93		80 - 121	12/29/23 18:13	12/30/23 01:47	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	1400	E	5.2	0.73	mg/Kg	☆	12/28/23 16:36	12/29/23 06:29	1
Gasoline	1200	H *1	550	79	mg/Kg	☆	01/03/24 11:16	01/04/24 00:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	0	S1-	66 - 125	12/28/23 16:36	12/29/23 06:29	1
4-Bromofluorobenzene (Surr)	88		66 - 125	01/03/24 11:16	01/04/24 00:25	1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	0.063		0.0054	0.0017	mg/Kg	☆	12/27/23 13:09	01/03/24 22:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	83		57 - 145	12/27/23 13:09	01/03/24 22:42	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	120		53	13	mg/Kg	☆	12/28/23 15:32	12/29/23 23:00	1
Motor Oil (>C24-C36)	ND		53	18	mg/Kg	☆	12/28/23 15:32	12/29/23 23:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	90		50 - 150	12/28/23 15:32	12/29/23 23:00	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3.9		0.51	0.049	mg/Kg	☆	01/02/24 09:52	01/05/24 15:37	10

Eurofins Seattle

Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Client Sample ID: MW15-20-20231220

Lab Sample ID: 580-135260-17

Date Collected: 12/20/23 10:30

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 87.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0012	0.00023	mg/Kg	☆	12/28/23 15:56	12/28/23 22:46	1
Ethylbenzene	0.0033		0.0012	0.00057	mg/Kg	☆	12/28/23 15:56	12/28/23 22:46	1
Methyl tert-butyl ether	ND		0.0012	0.00018	mg/Kg	☆	12/28/23 15:56	12/28/23 22:46	1
m-Xylene & p-Xylene	ND		0.0060	0.00070	mg/Kg	☆	12/28/23 15:56	12/28/23 22:46	1
Toluene	ND		0.0060	0.00078	mg/Kg	☆	12/28/23 15:56	12/28/23 22:46	1
Xylenes, Total	ND		0.0060	0.00055	mg/Kg	☆	12/28/23 15:56	12/28/23 22:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	116		80 - 120	12/28/23 15:56	12/28/23 22:46	1
4-Bromofluorobenzene (Surr)	89		80 - 120	12/28/23 15:56	12/28/23 22:46	1
Dibromofluoromethane (Surr)	86		80 - 120	12/28/23 15:56	12/28/23 22:46	1
1,2-Dichloroethane-d4 (Surr)	96		80 - 121	12/28/23 15:56	12/28/23 22:46	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.0028	0.00052	mg/Kg	☼	12/29/23 18:13	12/30/23 02:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	119		80 - 120				12/29/23 18:13	12/30/23 02:07	1
4-Bromofluorobenzene (Surr)	91		80 - 120				12/29/23 18:13	12/30/23 02:07	1
Dibromofluoromethane (Surr)	87		80 - 120				12/29/23 18:13	12/30/23 02:07	1
1,2-Dichloroethane-d4 (Surr)	98		80 - 121				12/29/23 18:13	12/30/23 02:07	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	140	*1	4.9	0.69	mg/Kg	☼	01/03/24 11:16	01/03/24 22:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		66 - 125				01/03/24 11:16	01/03/24 22:58	1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	0.016		0.0055	0.0018	mg/Kg	☼	12/27/23 13:09	01/03/24 23:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Terphenyl-d14	79		57 - 145				12/27/23 13:09	01/03/24 23:07	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		55	14	mg/Kg	☼	12/28/23 15:32	12/29/23 23:20	1
Motor Oil (>C24-C36)	ND		55	19	mg/Kg	☼	12/28/23 15:32	12/29/23 23:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	88		50 - 150				12/28/23 15:32	12/29/23 23:20	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3.5		0.44	0.042	mg/Kg	☆	01/02/24 09:52	01/05/24 15:40	10

Eurofins Seattle

Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Client Sample ID: MW15-25-20231220

Lab Sample ID: 580-135260-18

Date Collected: 12/20/23 11:00

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 82.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0012		0.0012	0.00023	mg/Kg	☆	12/28/23 15:56	12/28/23 23:05	1
Ethylbenzene	0.022		0.0012	0.00058	mg/Kg	☆	12/28/23 15:56	12/28/23 23:05	1
Methyl tert-butyl ether	ND		0.0012	0.00018	mg/Kg	☆	12/28/23 15:56	12/28/23 23:05	1
m-Xylene & p-Xylene	0.013		0.0060	0.00070	mg/Kg	☆	12/28/23 15:56	12/28/23 23:05	1
Toluene	ND		0.0060	0.00078	mg/Kg	☆	12/28/23 15:56	12/28/23 23:05	1
Xylenes, Total	0.013		0.0060	0.00055	mg/Kg	☆	12/28/23 15:56	12/28/23 23:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	124	S1+	80 - 120	12/28/23 15:56	12/28/23 23:05	1
4-Bromofluorobenzene (Surr)	92		80 - 120	12/28/23 15:56	12/28/23 23:05	1
Dibromofluoromethane (Surr)	82		80 - 120	12/28/23 15:56	12/28/23 23:05	1
1,2-Dichloroethane-d4 (Surr)	92		80 - 121	12/28/23 15:56	12/28/23 23:05	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.0030	0.00056	mg/Kg	☼	12/29/23 18:13	12/30/23 02:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	117		80 - 120				12/29/23 18:13	12/30/23 02:26	1
4-Bromofluorobenzene (Surr)	90		80 - 120				12/29/23 18:13	12/30/23 02:26	1
Dibromofluoromethane (Surr)	85		80 - 120				12/29/23 18:13	12/30/23 02:26	1
1,2-Dichloroethane-d4 (Surr)	94		80 - 121				12/29/23 18:13	12/30/23 02:26	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	8.6	*1	5.8	0.82	mg/Kg	☼	01/03/24 11:16	01/03/24 23:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		66 - 125				01/03/24 11:16	01/03/24 23:20	1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	0.0098		0.0056	0.0018	mg/Kg	☼	12/27/23 13:09	01/03/24 23:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Terphenyl-d14	88		57 - 145				12/27/23 13:09	01/03/24 23:31	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		59	14	mg/Kg	☼	12/28/23 15:32	12/29/23 23:40	1
Motor Oil (>C24-C36)	ND		59	21	mg/Kg	☼	12/28/23 15:32	12/29/23 23:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	87		50 - 150				12/28/23 15:32	12/29/23 23:40	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.9		0.49	0.047	mg/Kg	☆	01/02/24 09:52	01/05/24 15:42	10

Eurofins Seattle

Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Client Sample ID: MW15-30-20231220

Lab Sample ID: 580-135260-19

Date Collected: 12/20/23 11:40

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 86.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0011	0.00021	mg/Kg	☆	12/28/23 15:56	12/28/23 23:24	1
Ethylbenzene	ND		0.0011	0.00052	mg/Kg	☆	12/28/23 15:56	12/28/23 23:24	1
Methyl tert-butyl ether	ND		0.0011	0.00016	mg/Kg	☆	12/28/23 15:56	12/28/23 23:24	1
m-Xylene & p-Xylene	ND		0.0055	0.00064	mg/Kg	☆	12/28/23 15:56	12/28/23 23:24	1
Toluene	ND		0.0055	0.00071	mg/Kg	☆	12/28/23 15:56	12/28/23 23:24	1
Xylenes, Total	ND		0.0055	0.00050	mg/Kg	☆	12/28/23 15:56	12/28/23 23:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		80 - 120	12/28/23 15:56	12/28/23 23:24	1
4-Bromofluorobenzene (Surr)	96		80 - 120	12/28/23 15:56	12/28/23 23:24	1
Dibromofluoromethane (Surr)	92		80 - 120	12/28/23 15:56	12/28/23 23:24	1
1,2-Dichloroethane-d4 (Surr)	102		80 - 121	12/28/23 15:56	12/28/23 23:24	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.0030	0.00054	mg/Kg	☆	12/29/23 18:13	12/30/23 02:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120	12/29/23 18:13	12/30/23 02:45	1
4-Bromofluorobenzene (Surr)	96		80 - 120	12/29/23 18:13	12/30/23 02:45	1
Dibromofluoromethane (Surr)	92		80 - 120	12/29/23 18:13	12/30/23 02:45	1
1,2-Dichloroethane-d4 (Surr)	103		80 - 121	12/29/23 18:13	12/30/23 02:45	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND	*1	4.7	0.67	mg/Kg	☆	01/03/24 11:16	01/03/24 23:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		66 - 125	01/03/24 11:16	01/03/24 23:42	1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	0.041		0.0055	0.0018	mg/Kg	☆	12/27/23 13:09	01/03/24 23:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	88		57 - 145	12/27/23 13:09	01/03/24 23:55	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		55	14	mg/Kg	☆	12/28/23 15:32	12/30/23 00:00	1
Motor Oil (>C24-C36)	69		55	19	mg/Kg	☆	12/28/23 15:32	12/30/23 00:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	90		50 - 150	12/28/23 15:32	12/30/23 00:00	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	11		0.51	0.049	mg/Kg	☆	01/02/24 09:52	01/05/24 15:45	10

Eurofins Seattle

Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Client Sample ID: MW15-35-20231220

Lab Sample ID: 580-135260-20

Date Collected: 12/20/23 12:20

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 79.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0013	0.00024	mg/Kg	☆	12/28/23 15:56	12/28/23 23:43	1
Ethylbenzene	0.0038		0.0013	0.00060	mg/Kg	☆	12/28/23 15:56	12/28/23 23:43	1
Methyl tert-butyl ether	ND		0.0013	0.00019	mg/Kg	☆	12/28/23 15:56	12/28/23 23:43	1
m-Xylene & p-Xylene	ND		0.0063	0.00073	mg/Kg	☆	12/28/23 15:56	12/28/23 23:43	1
Toluene	ND		0.0063	0.00082	mg/Kg	☆	12/28/23 15:56	12/28/23 23:43	1
Xylenes, Total	ND		0.0063	0.00058	mg/Kg	☆	12/28/23 15:56	12/28/23 23:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		80 - 120	12/28/23 15:56	12/28/23 23:43	1
4-Bromofluorobenzene (Surr)	94		80 - 120	12/28/23 15:56	12/28/23 23:43	1
Dibromofluoromethane (Surr)	89		80 - 120	12/28/23 15:56	12/28/23 23:43	1
1,2-Dichloroethane-d4 (Surr)	101		80 - 121	12/28/23 15:56	12/28/23 23:43	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.0032	0.00058	mg/Kg	☆	12/29/23 18:13	12/30/23 03:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120	12/29/23 18:13	12/30/23 03:04	1
4-Bromofluorobenzene (Surr)	92		80 - 120	12/29/23 18:13	12/30/23 03:04	1
Dibromofluoromethane (Surr)	88		80 - 120	12/29/23 18:13	12/30/23 03:04	1
1,2-Dichloroethane-d4 (Surr)	101		80 - 121	12/29/23 18:13	12/30/23 03:04	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	25		6.2	0.89	mg/Kg	☆	12/28/23 16:36	12/29/23 08:17	1
Gasoline	20	H *1	6.2	0.89	mg/Kg	☆	01/03/24 11:16	01/04/24 00:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		66 - 125	12/28/23 16:36	12/29/23 08:17	1
4-Bromofluorobenzene (Surr)	88		66 - 125	01/03/24 11:16	01/04/24 00:03	1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.0060	0.0019	mg/Kg	☆	12/27/23 13:09	01/04/24 00:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	81		57 - 145	12/27/23 13:09	01/04/24 00:20	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		60	15	mg/Kg	☆	12/28/23 15:32	12/29/23 21:18	1
Motor Oil (>C24-C36)	ND		60	21	mg/Kg	☆	12/28/23 15:32	12/29/23 21:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	93		50 - 150	12/28/23 15:32	12/29/23 21:18	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3.6		0.49	0.047	mg/Kg	☆	01/02/24 09:52	01/05/24 15:48	10

Eurofins Seattle

Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Client Sample ID: MW16-5-20231219

Lab Sample ID: 580-135260-21

Date Collected: 12/19/23 12:20

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 78.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0013	0.00025	mg/Kg	☆	12/28/23 15:56	12/29/23 00:03	1
Ethylbenzene	ND		0.0013	0.00061	mg/Kg	☆	12/28/23 15:56	12/29/23 00:03	1
Methyl tert-butyl ether	ND		0.0013	0.00019	mg/Kg	☆	12/28/23 15:56	12/29/23 00:03	1
m-Xylene & p-Xylene	ND		0.0063	0.00074	mg/Kg	☆	12/28/23 15:56	12/29/23 00:03	1
Toluene	ND		0.0063	0.00082	mg/Kg	☆	12/28/23 15:56	12/29/23 00:03	1
Xylenes, Total	ND		0.0063	0.00058	mg/Kg	☆	12/28/23 15:56	12/29/23 00:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		80 - 120	12/28/23 15:56	12/29/23 00:03	1
4-Bromofluorobenzene (Surr)	101		80 - 120	12/28/23 15:56	12/29/23 00:03	1
Dibromofluoromethane (Surr)	99		80 - 120	12/28/23 15:56	12/29/23 00:03	1
1,2-Dichloroethane-d4 (Surr)	113		80 - 121	12/28/23 15:56	12/29/23 00:03	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.0031	0.00057	mg/Kg	☆	12/29/23 18:13	12/30/23 03:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		80 - 120	12/29/23 18:13	12/30/23 03:23	1
4-Bromofluorobenzene (Surr)	101		80 - 120	12/29/23 18:13	12/30/23 03:23	1
Dibromofluoromethane (Surr)	102		80 - 120	12/29/23 18:13	12/30/23 03:23	1
1,2-Dichloroethane-d4 (Surr)	116		80 - 121	12/29/23 18:13	12/30/23 03:23	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		6.2	0.89	mg/Kg	☆	12/29/23 16:31	12/29/23 18:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		66 - 125	12/29/23 16:31	12/29/23 18:07	1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.0059	0.0019	mg/Kg	☆	12/27/23 13:09	01/04/24 00:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	86		57 - 145	12/27/23 13:09	01/04/24 00:44	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		64	16	mg/Kg	☆	12/28/23 15:32	12/29/23 22:19	1
Motor Oil (>C24-C36)	ND		64	23	mg/Kg	☆	12/28/23 15:32	12/29/23 22:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	85		50 - 150	12/28/23 15:32	12/29/23 22:19	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	7.2		0.52	0.050	mg/Kg	☆	01/02/24 09:52	01/05/24 15:50	10

Eurofins Seattle

Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Client Sample ID: MW16-10-20231219

Lab Sample ID: 580-135260-22

Date Collected: 12/22/23 08:50

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 73.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0014	0.00026	mg/Kg	☆	12/28/23 15:56	12/29/23 00:22	1
Ethylbenzene	ND		0.0014	0.00065	mg/Kg	☆	12/28/23 15:56	12/29/23 00:22	1
Methyl tert-butyl ether	ND		0.0014	0.00020	mg/Kg	☆	12/28/23 15:56	12/29/23 00:22	1
m-Xylene & p-Xylene	ND		0.0068	0.00079	mg/Kg	☆	12/28/23 15:56	12/29/23 00:22	1
Toluene	ND		0.0068	0.00088	mg/Kg	☆	12/28/23 15:56	12/29/23 00:22	1
Xylenes, Total	ND		0.0068	0.00062	mg/Kg	☆	12/28/23 15:56	12/29/23 00:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		80 - 120	12/28/23 15:56	12/29/23 00:22	1
4-Bromofluorobenzene (Surr)	99		80 - 120	12/28/23 15:56	12/29/23 00:22	1
Dibromofluoromethane (Surr)	99		80 - 120	12/28/23 15:56	12/29/23 00:22	1
1,2-Dichloroethane-d4 (Surr)	115		80 - 121	12/28/23 15:56	12/29/23 00:22	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.0034	0.00063	mg/Kg	☆	12/29/23 18:13	12/30/23 03:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		80 - 120	12/29/23 18:13	12/30/23 03:42	1
4-Bromofluorobenzene (Surr)	102		80 - 120	12/29/23 18:13	12/30/23 03:42	1
Dibromofluoromethane (Surr)	104		80 - 120	12/29/23 18:13	12/30/23 03:42	1
1,2-Dichloroethane-d4 (Surr)	116		80 - 121	12/29/23 18:13	12/30/23 03:42	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		6.9	0.98	mg/Kg	☆	12/29/23 16:31	12/29/23 18:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		66 - 125	12/29/23 16:31	12/29/23 18:29	1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND	*- *1	0.0066	0.0021	mg/Kg	☆	12/28/23 09:37	12/29/23 19:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	110		57 - 145	12/28/23 09:37	12/29/23 19:50	1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND	H	0.0066	0.0021	mg/Kg	☆	01/09/24 10:09	01/10/24 20:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	101		57 - 145	01/09/24 10:09	01/10/24 20:29	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		64	16	mg/Kg	☆	12/28/23 15:32	12/29/23 22:39	1
Motor Oil (>C24-C36)	ND		64	22	mg/Kg	☆	12/28/23 15:32	12/29/23 22:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	89		50 - 150	12/28/23 15:32	12/29/23 22:39	1

Eurofins Seattle

Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Client Sample ID: MW16-10-20231219

Lab Sample ID: 580-135260-22

Date Collected: 12/22/23 08:50

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 73.8

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	7.5		0.65	0.062	mg/Kg	☆	01/02/24 09:52	01/05/24 15:53	10

Client Sample ID: MW16-15-20231219

Lab Sample ID: 580-135260-23

Date Collected: 12/22/23 09:05

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 81.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0012	0.00024	mg/Kg	☆	12/29/23 13:12	12/29/23 15:53	1
Ethylbenzene	ND		0.0012	0.00059	mg/Kg	☆	12/29/23 13:12	12/29/23 15:53	1
Methyl tert-butyl ether	ND		0.0012	0.00019	mg/Kg	☆	12/29/23 13:12	12/29/23 15:53	1
m-Xylene & p-Xylene	ND		0.0062	0.00072	mg/Kg	☆	12/29/23 13:12	12/29/23 15:53	1
o-Xylene	ND		0.0031	0.00057	mg/Kg	☆	12/29/23 13:12	12/29/23 15:53	1
Toluene	ND		0.0062	0.00080	mg/Kg	☆	12/29/23 13:12	12/29/23 15:53	1
Xylenes, Total	ND		0.0062	0.00057	mg/Kg	☆	12/29/23 13:12	12/29/23 15:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		80 - 120	12/29/23 13:12	12/29/23 15:53	1
4-Bromofluorobenzene (Surr)	105		80 - 120	12/29/23 13:12	12/29/23 15:53	1
Dibromofluoromethane (Surr)	112		80 - 120	12/29/23 13:12	12/29/23 15:53	1
1,2-Dichloroethane-d4 (Surr)	124	S1+	80 - 121	12/29/23 13:12	12/29/23 15:53	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		6.0	0.85	mg/Kg	☆	12/29/23 16:31	12/29/23 18:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		66 - 125	12/29/23 16:31	12/29/23 18:50	1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND	*- *1	0.0059	0.0019	mg/Kg	☆	12/28/23 09:37	12/29/23 20:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	109		57 - 145	12/28/23 09:37	12/29/23 20:14	1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND	H	0.0058	0.0019	mg/Kg	☆	01/09/24 10:09	01/10/24 21:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	95		57 - 145	01/09/24 10:09	01/10/24 21:42	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		61	15	mg/Kg	☆	12/28/23 15:32	12/29/23 23:00	1
Motor Oil (>C24-C36)	ND		61	21	mg/Kg	☆	12/28/23 15:32	12/29/23 23:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	92		50 - 150	12/28/23 15:32	12/29/23 23:00	1

Eurofins Seattle

Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Client Sample ID: MW16-15-20231219

Lab Sample ID: 580-135260-23

Date Collected: 12/22/23 09:05

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 81.9

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	5.0		0.48	0.046	mg/Kg	☆	01/02/24 09:52	01/05/24 15:56	10

Client Sample ID: MW16-20-20231219

Lab Sample ID: 580-135260-24

Date Collected: 12/22/23 09:30

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 82.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0013	0.00025	mg/Kg	☆	12/29/23 13:12	12/29/23 16:12	1
Ethylbenzene	ND		0.0013	0.00060	mg/Kg	☆	12/29/23 13:12	12/29/23 16:12	1
Methyl tert-butyl ether	ND		0.0013	0.00019	mg/Kg	☆	12/29/23 13:12	12/29/23 16:12	1
m-Xylene & p-Xylene	ND		0.0063	0.00074	mg/Kg	☆	12/29/23 13:12	12/29/23 16:12	1
o-Xylene	ND		0.0031	0.00058	mg/Kg	☆	12/29/23 13:12	12/29/23 16:12	1
Toluene	ND		0.0063	0.00082	mg/Kg	☆	12/29/23 13:12	12/29/23 16:12	1
Xylenes, Total	ND		0.0063	0.00058	mg/Kg	☆	12/29/23 13:12	12/29/23 16:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		80 - 120	12/29/23 13:12	12/29/23 16:12	1
4-Bromofluorobenzene (Surr)	104		80 - 120	12/29/23 13:12	12/29/23 16:12	1
Dibromofluoromethane (Surr)	130	S1+	80 - 120	12/29/23 13:12	12/29/23 16:12	1
1,2-Dichloroethane-d4 (Surr)	126	S1+	80 - 121	12/29/23 13:12	12/29/23 16:12	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		5.6	0.80	mg/Kg	☆	12/29/23 16:31	12/29/23 19:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		66 - 125	12/29/23 16:31	12/29/23 19:11	1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND	*- *1	0.0058	0.0019	mg/Kg	☆	12/28/23 09:37	12/29/23 20:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	106		57 - 145	12/28/23 09:37	12/29/23 20:40	1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND	H	0.0058	0.0019	mg/Kg	☆	01/09/24 10:09	01/10/24 22:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	98		57 - 145	01/09/24 10:09	01/10/24 22:06	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		60	15	mg/Kg	☆	12/28/23 15:32	12/29/23 23:20	1
Motor Oil (>C24-C36)	ND		60	21	mg/Kg	☆	12/28/23 15:32	12/29/23 23:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	96		50 - 150	12/28/23 15:32	12/29/23 23:20	1

Eurofins Seattle

Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Client Sample ID: MW16-20-20231219

Lab Sample ID: 580-135260-24

Date Collected: 12/22/23 09:30

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 82.6

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.8		0.37	0.036	mg/Kg	☆	01/02/24 09:52	01/05/24 15:58	10

Client Sample ID: MW16-25-20231219

Lab Sample ID: 580-135260-25

Date Collected: 12/22/23 09:50

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 79.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0012	0.00023	mg/Kg	☆	12/29/23 13:12	12/29/23 16:31	1
Ethylbenzene	ND		0.0012	0.00057	mg/Kg	☆	12/29/23 13:12	12/29/23 16:31	1
Methyl tert-butyl ether	ND		0.0012	0.00018	mg/Kg	☆	12/29/23 13:12	12/29/23 16:31	1
m-Xylene & p-Xylene	ND		0.0060	0.00070	mg/Kg	☆	12/29/23 13:12	12/29/23 16:31	1
o-Xylene	ND		0.0030	0.00055	mg/Kg	☆	12/29/23 13:12	12/29/23 16:31	1
Toluene	ND		0.0060	0.00078	mg/Kg	☆	12/29/23 13:12	12/29/23 16:31	1
Xylenes, Total	ND		0.0060	0.00055	mg/Kg	☆	12/29/23 13:12	12/29/23 16:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		80 - 120	12/29/23 13:12	12/29/23 16:31	1
4-Bromofluorobenzene (Surr)	105		80 - 120	12/29/23 13:12	12/29/23 16:31	1
Dibromofluoromethane (Surr)	124	S1+	80 - 120	12/29/23 13:12	12/29/23 16:31	1
1,2-Dichloroethane-d4 (Surr)	127	S1+	80 - 121	12/29/23 13:12	12/29/23 16:31	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		6.1	0.87	mg/Kg	☆	12/29/23 16:31	12/29/23 19:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		66 - 125	12/29/23 16:31	12/29/23 19:54	1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND	*- *1	0.0059	0.0019	mg/Kg	☆	12/28/23 09:37	12/29/23 21:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	111		57 - 145	12/28/23 09:37	12/29/23 21:05	1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND	H	0.0061	0.0020	mg/Kg	☆	01/09/24 10:09	01/10/24 22:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	100		57 - 145	01/09/24 10:09	01/10/24 22:30	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		59	15	mg/Kg	☆	12/28/23 15:32	12/29/23 23:40	1
Motor Oil (>C24-C36)	ND		59	21	mg/Kg	☆	12/28/23 15:32	12/29/23 23:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	92		50 - 150	12/28/23 15:32	12/29/23 23:40	1

Eurofins Seattle

Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Client Sample ID: MW16-25-20231219

Lab Sample ID: 580-135260-25

Date Collected: 12/22/23 09:50

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 79.3

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.5		0.37	0.035	mg/Kg	☆	01/02/24 09:52	01/05/24 16:17	10

Client Sample ID: MW16-30-20231219

Lab Sample ID: 580-135260-26

Date Collected: 12/22/23 10:10

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 73.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0013	0.00026	mg/Kg	☆	12/29/23 13:12	12/29/23 16:50	1
Ethylbenzene	ND		0.0013	0.00064	mg/Kg	☆	12/29/23 13:12	12/29/23 16:50	1
Methyl tert-butyl ether	ND		0.0013	0.00020	mg/Kg	☆	12/29/23 13:12	12/29/23 16:50	1
m-Xylene & p-Xylene	ND		0.0067	0.00078	mg/Kg	☆	12/29/23 13:12	12/29/23 16:50	1
o-Xylene	ND		0.0034	0.00062	mg/Kg	☆	12/29/23 13:12	12/29/23 16:50	1
Toluene	ND		0.0067	0.00087	mg/Kg	☆	12/29/23 13:12	12/29/23 16:50	1
Xylenes, Total	ND		0.0067	0.00062	mg/Kg	☆	12/29/23 13:12	12/29/23 16:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		80 - 120	12/29/23 13:12	12/29/23 16:50	1
4-Bromofluorobenzene (Surr)	90		80 - 120	12/29/23 13:12	12/29/23 16:50	1
Dibromofluoromethane (Surr)	78	S1-	80 - 120	12/29/23 13:12	12/29/23 16:50	1
1,2-Dichloroethane-d4 (Surr)	97		80 - 121	12/29/23 13:12	12/29/23 16:50	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	9.1		7.0	0.99	mg/Kg	☆	12/29/23 16:31	12/29/23 20:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		66 - 125	12/29/23 16:31	12/29/23 20:16	1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND	*- *1	0.0065	0.0021	mg/Kg	☆	12/28/23 09:37	12/29/23 21:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	106		57 - 145	12/28/23 09:37	12/29/23 21:30	1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND	H	0.0063	0.0020	mg/Kg	☆	01/09/24 10:09	01/10/24 22:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	95		57 - 145	01/09/24 10:09	01/10/24 22:54	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		64	16	mg/Kg	☆	01/04/24 12:37	01/09/24 02:30	1
Motor Oil (>C24-C36)	ND		64	22	mg/Kg	☆	01/04/24 12:37	01/09/24 02:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	100		50 - 150	01/04/24 12:37	01/09/24 02:30	1

Eurofins Seattle

Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Client Sample ID: MW16-30-20231219
Date Collected: 12/22/23 10:10
Date Received: 12/22/23 16:00

Lab Sample ID: 580-135260-26
Matrix: Solid
Percent Solids: 73.5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.3		0.39	0.038	mg/Kg	☼	01/02/24 09:52	01/05/24 16:20	10

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Surrogate Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TOL (80-120)	BFB (80-120)	DBFM (80-120)	DCA (80-121)
580-135260-2	SB9-5-20231219	95	99	108	117
580-135260-2 - RA	SB9-5-20231219	95	104	106	118
580-135260-3	SB9-10-20231220	98	101	108	121
580-135260-3 - RA	SB9-10-20231220	95	98	104	116
580-135260-4	SB9-15-20231220	96	100	107	118
580-135260-4 - RA	SB9-15-20231220	95	99	101	115
580-135260-5	SB9-20-20231220	156 S1+	96	82	92
580-135260-5 - RA	SB9-20-20231220	132 S1+	94	83	94
580-135260-6	SB9-25-20231220	107	91	86	97
580-135260-6 - RA	SB9-25-20231220	103	91	87	98
580-135260-7	MW14-5-20231218	95	99	104	114
580-135260-7 - RA	MW14-5-20231218	96	101	101	114
580-135260-8	MW14-10-20231221	98	97	101	112
580-135260-8 - RA	MW14-10-20231221	95	99	101	113
580-135260-9	MW14-15-20231221	99	94	99	109
580-135260-9 - RA	MW14-15-20231221	105	94	91	102
580-135260-10	MW14-17.5-20231221	455 S1+	92	83	93
580-135260-10	MW14-17.5-20231221	103	99	96	91
580-135260-10 - RA	MW14-17.5-20231221	470 S1+	92	80	91
580-135260-11	MW14-20-20231221	141 S1+	91	81	90
580-135260-11 - RA	MW14-20-20231221	187 S1+	90	80	91
580-135260-13	MW14-30-20231221	99	95	91	100
580-135260-13 - RA	MW14-30-20231221	109	93	87	97
580-135260-14	MW15-5-20231219	95	97	97	109
580-135260-14 - RA	MW15-5-20231219	97	96	99	112
580-135260-15	MW15-10-20231220	98	99	94	105
580-135260-15 - RA	MW15-10-20231220	95	99	93	107
580-135260-16	MW15-10-20231220	173 S1+	91	83	94
580-135260-16 - RA	MW15-10-20231220	173 S1+	89	82	93
580-135260-17	MW15-20-20231220	116	89	86	96
580-135260-17 - RA	MW15-20-20231220	119	91	87	98
580-135260-18	MW15-25-20231220	124 S1+	92	82	92
580-135260-18 - RA	MW15-25-20231220	117	90	85	94
580-135260-19	MW15-30-20231220	97	96	92	102
580-135260-19 - RA	MW15-30-20231220	98	96	92	103
580-135260-20	MW15-35-20231220	101	94	89	101
580-135260-20 - RA	MW15-35-20231220	102	92	88	101
580-135260-21	MW16-5-20231219	95	101	99	113
580-135260-21 - RA	MW16-5-20231219	95	101	102	116
580-135260-22	MW16-10-20231219	95	99	99	115
580-135260-22 - RA	MW16-10-20231219	95	102	104	116
580-135260-23	MW16-15-20231219	94	105	112	124 S1+
580-135260-24	MW16-20-20231219	96	104	130 S1+	126 S1+
580-135260-25	MW16-25-20231219	96	105	124 S1+	127 S1+
580-135260-26	MW16-30-20231219	96	90	78 S1-	97
LCS 580-447279/2-A	Lab Control Sample	106	98	101	94
LCS 580-447281/2-A	Lab Control Sample	100	92	88	88
LCS 580-447406/2-A	Lab Control Sample	101	94	85	88
LCS 580-447472/2-A	Lab Control Sample	101	93	85	86

Eurofins Seattle

Surrogate Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TOL (80-120)	BFB (80-120)	DBFM (80-120)	DCA (80-121)
LCSD 580-447279/3-A	Lab Control Sample Dup	103	96	102	91
LCSD 580-447281/3-A	Lab Control Sample Dup	100	94	87	89
LCSD 580-447406/3-A	Lab Control Sample Dup	100	95	84	87
LCSD 580-447472/3-A	Lab Control Sample Dup	100	92	84	90
MB 580-447279/1-A	Method Blank	104	94	98	92
MB 580-447281/1-A	Method Blank	97	100	99	102
MB 580-447406/1-A	Method Blank	96	102	101	106
MB 580-447472/1-A	Method Blank	96	101	101	106

Surrogate Legend

TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (66-125)			
580-135260-2	SB9-5-20231219	93			
580-135260-3	SB9-10-20231220	94			
580-135260-4	SB9-15-20231220	94			
580-135260-5	SB9-20-20231220	94			
580-135260-6	SB9-25-20231220	94			
580-135260-7	MW14-5-20231218	93			
580-135260-8	MW14-10-20231221	95			
580-135260-9	MW14-15-20231221	95			
580-135260-10	MW14-17.5-20231221	96			
580-135260-11	MW14-20-20231221	95			
580-135260-13	MW14-30-20231221	95			
580-135260-14	MW15-5-20231219	95			
580-135260-14	MW15-5-20231219	91			
580-135260-15	MW15-10-20231220	92			
580-135260-16	MW15-10-20231220	0 S1-			
580-135260-16	MW15-10-20231220	88			
580-135260-17	MW15-20-20231220	93			
580-135260-18	MW15-25-20231220	92			
580-135260-19	MW15-30-20231220	91			
580-135260-20	MW15-35-20231220	94			
580-135260-20	MW15-35-20231220	88			
580-135260-21	MW16-5-20231219	94			
580-135260-22	MW16-10-20231219	94			
580-135260-23	MW16-15-20231219	95			
580-135260-24	MW16-20-20231219	94			
580-135260-25	MW16-25-20231219	95			
580-135260-26	MW16-30-20231219	93			
LCS 580-447432/4-A	Lab Control Sample	95			
LCS 580-447623/4-A	Lab Control Sample	92			
LCSD 580-447432/5-A	Lab Control Sample Dup	94			

Eurofins Seattle

Surrogate Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS) (Continued)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (66-125)
LCSD 580-447623/5-A	Lab Control Sample Dup	92
MB 580-447432/1-A	Method Blank	93
MB 580-447623/1-A	Method Blank	92

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TPHL (57-145)
580-135260-2	SB9-5-20231219	91
580-135260-2 MS	SB9-5-20231219	88
580-135260-2 MSD	SB9-5-20231219	87
580-135260-3	SB9-10-20231220	92
580-135260-4	SB9-15-20231220	89
580-135260-5	SB9-20-20231220	91
580-135260-6	SB9-25-20231220	88
580-135260-7	MW14-5-20231218	91
580-135260-8	MW14-10-20231221	87
580-135260-9	MW14-15-20231221	92
580-135260-10	MW14-17.5-20231221	94
580-135260-11	MW14-20-20231221	89
580-135260-13	MW14-30-20231221	93
580-135260-14	MW15-5-20231219	94
580-135260-15	MW15-10-20231220	91
580-135260-16	MW15-10-20231220	83
580-135260-17	MW15-20-20231220	79
580-135260-18	MW15-25-20231220	88
580-135260-19	MW15-30-20231220	88
580-135260-20	MW15-35-20231220	81
580-135260-21	MW16-5-20231219	86
580-135260-22	MW16-10-20231219	110
580-135260-22 - RE	MW16-10-20231219	101
580-135260-22 MS - RE	MW16-10-20231219	91
580-135260-22 MSD - RE	MW16-10-20231219	89
580-135260-23	MW16-15-20231219	109
580-135260-23 - RE	MW16-15-20231219	95
580-135260-24	MW16-20-20231219	106
580-135260-24 - RE	MW16-20-20231219	98
580-135260-25	MW16-25-20231219	111
580-135260-25 - RE	MW16-25-20231219	100
580-135260-26	MW16-30-20231219	106
580-135260-26 - RE	MW16-30-20231219	95
LCS 580-447131/2-A	Lab Control Sample	90
LCS 580-447218/2-A	Lab Control Sample	62
LCS 580-448068/2-A	Lab Control Sample	98
LCSD 580-447131/3-A	Lab Control Sample Dup	86
LCSD 580-447218/3-A	Lab Control Sample Dup	96

Eurofins Seattle

Surrogate Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TPHL (57-145)
LCSD 580-448068/3-A	Lab Control Sample Dup	97
MB 580-447131/1-A	Method Blank	91
MB 580-447218/1-A	Method Blank	60
MB 580-448068/1-A	Method Blank	108

Surrogate Legend

TPHL = Terphenyl-d14

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTPH (50-150)
580-135139-D-7-E DU	Duplicate	94
580-135139-D-8-B DU	Duplicate	92
580-135260-2	SB9-5-20231219	101
580-135260-2 DU	SB9-5-20231219	101
580-135260-3	SB9-10-20231220	111
580-135260-4	SB9-15-20231220	100
580-135260-5	SB9-20-20231220	98
580-135260-6	SB9-25-20231220	99
580-135260-7	MW14-5-20231218	99
580-135260-8	MW14-10-20231221	95
580-135260-9	MW14-15-20231221	99
580-135260-10	MW14-17.5-20231221	97
580-135260-11	MW14-20-20231221	94
580-135260-13	MW14-30-20231221	94
580-135260-14	MW15-5-20231219	87
580-135260-14 DU	MW15-5-20231219	91
580-135260-15	MW15-10-20231220	84
580-135260-16	MW15-10-20231220	90
580-135260-17	MW15-20-20231220	88
580-135260-18	MW15-25-20231220	87
580-135260-19	MW15-30-20231220	90
580-135260-20	MW15-35-20231220	93
580-135260-21	MW16-5-20231219	85
580-135260-22	MW16-10-20231219	89
580-135260-23	MW16-15-20231219	92
580-135260-24	MW16-20-20231219	96
580-135260-25	MW16-25-20231219	92
580-135260-26	MW16-30-20231219	100
LCS 580-447278/2-A	Lab Control Sample	91
LCS 580-447283/2-A	Lab Control Sample	76
LCS 580-447762/2-A	Lab Control Sample	87
LCSD 580-447278/3-A	Lab Control Sample Dup	93
LCSD 580-447283/3-A	Lab Control Sample Dup	75
LCSD 580-447762/3-A	Lab Control Sample Dup	91
MB 580-447278/1-A	Method Blank	98
MB 580-447283/1-A	Method Blank	96
MB 580-447762/1-A	Method Blank	98

Eurofins Seattle

Surrogate Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Surrogate Legend
OTPH = o-Terphenyl

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

QC Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 580-447279/1-A

Matrix: Solid

Analysis Batch: 447314

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 447279

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.020	0.0038	mg/Kg		12/28/23 14:57	12/29/23 01:05	1
Ethylbenzene	ND		0.040	0.0091	mg/Kg		12/28/23 14:57	12/29/23 01:05	1
MTBE	ND		0.040	0.0060	mg/Kg		12/28/23 14:57	12/29/23 01:05	1
m-Xylene & p-Xylene	ND		0.040	0.0071	mg/Kg		12/28/23 14:57	12/29/23 01:05	1
o-Xylene	ND		0.040	0.0050	mg/Kg		12/28/23 14:57	12/29/23 01:05	1
Toluene	ND		0.060	0.014	mg/Kg		12/28/23 14:57	12/29/23 01:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		80 - 120	12/28/23 14:57	12/29/23 01:05	1
1,2-Dichloroethane-d4 (Surr)	92		80 - 121	12/28/23 14:57	12/29/23 01:05	1
Dibromofluoromethane (Surr)	98		80 - 120	12/28/23 14:57	12/29/23 01:05	1
Toluene-d8 (Surr)	104		80 - 120	12/28/23 14:57	12/29/23 01:05	1

Lab Sample ID: LCS 580-447279/2-A

Matrix: Solid

Analysis Batch: 447314

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 447279

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.800	0.783		mg/Kg		98	79 - 135
Ethylbenzene	0.800	0.793		mg/Kg		99	80 - 135
MTBE	0.800	0.759		mg/Kg		95	71 - 126
m-Xylene & p-Xylene	0.800	0.794		mg/Kg		99	80 - 132
o-Xylene	0.800	0.771		mg/Kg		96	80 - 132
Toluene	0.800	0.799		mg/Kg		100	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		80 - 120
1,2-Dichloroethane-d4 (Surr)	94		80 - 121
Dibromofluoromethane (Surr)	101		80 - 120
Toluene-d8 (Surr)	106		80 - 120

Lab Sample ID: LCSD 580-447279/3-A

Matrix: Solid

Analysis Batch: 447314

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 447279

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.800	0.768		mg/Kg		96	79 - 135	2	20
Ethylbenzene	0.800	0.773		mg/Kg		97	80 - 135	3	20
MTBE	0.800	0.745		mg/Kg		93	71 - 126	2	20
m-Xylene & p-Xylene	0.800	0.756		mg/Kg		95	80 - 132	5	20
o-Xylene	0.800	0.766		mg/Kg		96	80 - 132	1	20
Toluene	0.800	0.782		mg/Kg		98	75 - 125	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		80 - 120
1,2-Dichloroethane-d4 (Surr)	91		80 - 121
Dibromofluoromethane (Surr)	102		80 - 120

Eurofins Seattle

QC Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

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

Lab Sample ID: LCSD 580-447279/3-A

Matrix: Solid

Analysis Batch: 447314

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 447279

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
Toluene-d8 (Surr)	103		80 - 120

Lab Sample ID: MB 580-447281/1-A

Matrix: Solid

Analysis Batch: 447295

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 447281

Analyte	MB	MB							
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0020	0.00039	mg/Kg		12/28/23 15:10	12/28/23 17:00	1
Ethylbenzene	ND		0.0020	0.00096	mg/Kg		12/28/23 15:10	12/28/23 17:00	1
Methyl tert-butyl ether	ND		0.0020	0.00030	mg/Kg		12/28/23 15:10	12/28/23 17:00	1
m-Xylene & p-Xylene	ND		0.010	0.0012	mg/Kg		12/28/23 15:10	12/28/23 17:00	1
Toluene	ND		0.010	0.0013	mg/Kg		12/28/23 15:10	12/28/23 17:00	1
Xylenes, Total	ND		0.010	0.00092	mg/Kg		12/28/23 15:10	12/28/23 17:00	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	100		80 - 120	12/28/23 15:10	12/28/23 17:00	1			
1,2-Dichloroethane-d4 (Surr)	102		80 - 121	12/28/23 15:10	12/28/23 17:00	1			
Dibromofluoromethane (Surr)	99		80 - 120	12/28/23 15:10	12/28/23 17:00	1			
Toluene-d8 (Surr)	97		80 - 120	12/28/23 15:10	12/28/23 17:00	1			

Lab Sample ID: LCS 580-447281/2-A

Matrix: Solid

Analysis Batch: 447295

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 447281

Analyte	Spike	LCS	LCS						
	Added	Result	Qualifier	Unit	D	%Rec	%Rec	Limits	
Benzene	0.0500	0.0522		mg/Kg		104	79 - 135		
Ethylbenzene	0.0500	0.0477		mg/Kg		95	80 - 135		
Methyl tert-butyl ether	0.0500	0.0588		mg/Kg		118	71 - 126		
m-Xylene & p-Xylene	0.0500	0.0478		mg/Kg		96	80 - 132		
Toluene	0.0500	0.0488		mg/Kg		98	75 - 125		
Xylenes, Total	0.100	0.0935		mg/Kg		94	80 - 128		

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		80 - 120
1,2-Dichloroethane-d4 (Surr)	88		80 - 121
Dibromofluoromethane (Surr)	88		80 - 120
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: LCSD 580-447281/3-A

Matrix: Solid

Analysis Batch: 447295

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 447281

	LCS	LCS							
Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	Limit
	Added	Result	Qualifier			Limits	RPD		
Benzene	0.0500	0.0527		mg/Kg		105	79 - 135	1	20
Ethylbenzene	0.0500	0.0478		mg/Kg		96	80 - 135	0	20
Methyl tert-butyl ether	0.0500	0.0575		mg/Kg		115	71 - 126	2	20
m-Xylene & p-Xylene	0.0500	0.0476		mg/Kg		95	80 - 132	0	20
Toluene	0.0500	0.0492		mg/Kg		98	75 - 125	1	20

Eurofins Seattle

QC Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

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

Lab Sample ID: LCSD 580-447281/3-A

Matrix: Solid

Analysis Batch: 447295

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 447281

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Xylenes, Total	0.100	0.0935		mg/Kg		94	80 - 128	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		80 - 120
1,2-Dichloroethane-d4 (Surr)	89		80 - 121
Dibromofluoromethane (Surr)	87		80 - 120
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: MB 580-447406/1-A

Matrix: Solid

Analysis Batch: 447410

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 447406

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0020	0.00039	mg/Kg		12/29/23 12:59	12/29/23 14:36	1
Ethylbenzene	ND		0.0020	0.00096	mg/Kg		12/29/23 12:59	12/29/23 14:36	1
Methyl tert-butyl ether	ND		0.0020	0.00030	mg/Kg		12/29/23 12:59	12/29/23 14:36	1
m-Xylene & p-Xylene	ND		0.010	0.0012	mg/Kg		12/29/23 12:59	12/29/23 14:36	1
o-Xylene	ND		0.0050	0.00092	mg/Kg		12/29/23 12:59	12/29/23 14:36	1
Toluene	ND		0.010	0.0013	mg/Kg		12/29/23 12:59	12/29/23 14:36	1
Xylenes, Total	ND		0.010	0.00092	mg/Kg		12/29/23 12:59	12/29/23 14:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120	12/29/23 12:59	12/29/23 14:36	1
1,2-Dichloroethane-d4 (Surr)	106		80 - 121	12/29/23 12:59	12/29/23 14:36	1
Dibromofluoromethane (Surr)	101		80 - 120	12/29/23 12:59	12/29/23 14:36	1
Toluene-d8 (Surr)	96		80 - 120	12/29/23 12:59	12/29/23 14:36	1

Lab Sample ID: LCS 580-447406/2-A

Matrix: Solid

Analysis Batch: 447410

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 447406

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.0512		mg/Kg		102	79 - 135
Ethylbenzene	0.0500	0.0467		mg/Kg		93	80 - 135
Methyl tert-butyl ether	0.0500	0.0565		mg/Kg		113	71 - 126
m-Xylene & p-Xylene	0.0500	0.0466		mg/Kg		93	80 - 132
o-Xylene	0.0500	0.0444		mg/Kg		89	80 - 132
Toluene	0.0500	0.0478		mg/Kg		96	75 - 125
Xylenes, Total	0.100	0.0910		mg/Kg		91	80 - 128

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		80 - 120
1,2-Dichloroethane-d4 (Surr)	88		80 - 121
Dibromofluoromethane (Surr)	85		80 - 120
Toluene-d8 (Surr)	101		80 - 120

Eurofins Seattle

QC Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

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

Lab Sample ID: LCSD 580-447406/3-A

Matrix: Solid

Analysis Batch: 447410

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 447406

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0500	0.0490		mg/Kg		98	79 - 135	4	20
Ethylbenzene	0.0500	0.0451		mg/Kg		90	80 - 135	3	20
Methyl tert-butyl ether	0.0500	0.0551		mg/Kg		110	71 - 126	2	20
m-Xylene & p-Xylene	0.0500	0.0452		mg/Kg		90	80 - 132	3	20
o-Xylene	0.0500	0.0430		mg/Kg		86	80 - 132	3	20
Toluene	0.0500	0.0458		mg/Kg		92	75 - 125	4	20
Xylenes, Total	0.100	0.0882		mg/Kg		88	80 - 128	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		80 - 120
1,2-Dichloroethane-d4 (Surr)	87		80 - 121
Dibromofluoromethane (Surr)	84		80 - 120
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: MB 580-447472/1-A

Matrix: Solid

Analysis Batch: 447475

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 447472

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.0050	0.00092	mg/Kg		12/29/23 18:11	12/29/23 20:20	1
Xylenes, Total	ND		0.010	0.00092	mg/Kg		12/29/23 18:11	12/29/23 20:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		80 - 120	12/29/23 18:11	12/29/23 20:20	1
1,2-Dichloroethane-d4 (Surr)	106		80 - 121	12/29/23 18:11	12/29/23 20:20	1
Dibromofluoromethane (Surr)	101		80 - 120	12/29/23 18:11	12/29/23 20:20	1
Toluene-d8 (Surr)	96		80 - 120	12/29/23 18:11	12/29/23 20:20	1

Lab Sample ID: LCS 580-447472/2-A

Matrix: Solid

Analysis Batch: 447475

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 447472

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.0500	0.0413		mg/Kg		83	80 - 132
Xylenes, Total	0.100	0.0843		mg/Kg		84	80 - 128

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		80 - 120
1,2-Dichloroethane-d4 (Surr)	86		80 - 121
Dibromofluoromethane (Surr)	85		80 - 120
Toluene-d8 (Surr)	101		80 - 120

Lab Sample ID: LCSD 580-447472/3-A

Matrix: Solid

Analysis Batch: 447475

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 447472

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
o-Xylene	0.0500	0.0446		mg/Kg		89	80 - 132	8	20

Eurofins Seattle

QC Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

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

Lab Sample ID: LCSD 580-447472/3-A

Matrix: Solid

Analysis Batch: 447475

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 447472

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Xylenes, Total	0.100	0.0917		mg/Kg		92	80 - 128	8	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		80 - 120
1,2-Dichloroethane-d4 (Surr)	90		80 - 121
Dibromofluoromethane (Surr)	84		80 - 120
Toluene-d8 (Surr)	100		80 - 120

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Lab Sample ID: MB 580-447432/1-A

Matrix: Solid

Analysis Batch: 447457

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 447432

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		4.0	0.57	mg/Kg		12/29/23 14:31	12/29/23 17:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		66 - 125	12/29/23 14:31	12/29/23 17:45	1

Lab Sample ID: LCS 580-447432/4-A

Matrix: Solid

Analysis Batch: 447457

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 447432

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline	20.0	21.4		mg/Kg		107	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		66 - 125

Lab Sample ID: LCSD 580-447432/5-A

Matrix: Solid

Analysis Batch: 447457

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 447432

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline	20.0	21.9		mg/Kg		110	80 - 120	2	10

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		66 - 125

Lab Sample ID: MB 580-447623/1-A

Matrix: Solid

Analysis Batch: 447688

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 447623

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		4.0	0.57	mg/Kg		01/03/24 11:16	01/03/24 20:05	1

Eurofins Seattle

QC Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS) (Continued)

Lab Sample ID: MB 580-447623/1-A

Matrix: Solid

Analysis Batch: 447688

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 447623

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		66 - 125	01/03/24 11:16	01/03/24 20:05	1

Lab Sample ID: LCS 580-447623/4-A

Matrix: Solid

Analysis Batch: 447688

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 447623

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline	20.0	16.8		mg/Kg		84	80 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	92		66 - 125				

Lab Sample ID: LCSD 580-447623/5-A

Matrix: Solid

Analysis Batch: 447688

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 447623

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Gasoline	20.0	20.2	*1	mg/Kg		101	80 - 120	19	10
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	92		66 - 125						

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 580-447131/1-A

Matrix: Solid

Analysis Batch: 447637

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 447131

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.0050	0.0016	mg/Kg		12/27/23 13:09	01/03/24 15:21	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
Terphenyl-d14	91		57 - 145						

Lab Sample ID: LCS 580-447131/2-A

Matrix: Solid

Analysis Batch: 447637

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 447131

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Naphthalene	2.00	1.47		mg/Kg		74	65 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Terphenyl-d14	90		57 - 145				

Eurofins Seattle

QC Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCSD 580-447131/3-A

Matrix: Solid

Analysis Batch: 447637

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 447131

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Naphthalene			2.00	1.46		mg/Kg		73	65 - 120	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
Terphenyl-d14	86		57 - 145								

Lab Sample ID: 580-135260-2 MS

Matrix: Solid

Analysis Batch: 447637

Client Sample ID: SB9-5-20231219

Prep Type: Total/NA

Prep Batch: 447131

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Naphthalene	ND		2.61	1.95		mg/Kg	✱	75	65 - 120		
Surrogate	MS %Recovery	MS Qualifier	Limits								
Terphenyl-d14	88		57 - 145								

Lab Sample ID: 580-135260-2 MSD

Matrix: Solid

Analysis Batch: 447637

Client Sample ID: SB9-5-20231219

Prep Type: Total/NA

Prep Batch: 447131

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Naphthalene	ND		2.58	1.87		mg/Kg	✱	73	65 - 120	4	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Terphenyl-d14	87		57 - 145								

Lab Sample ID: MB 580-447218/1-A

Matrix: Solid

Analysis Batch: 447393

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 447218

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.0050	0.0016	mg/Kg		12/28/23 09:37	12/29/23 13:08	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Terphenyl-d14	60		57 - 145				12/28/23 09:37	12/29/23 13:08	1

Lab Sample ID: LCS 580-447218/2-A

Matrix: Solid

Analysis Batch: 447393

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 447218

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Naphthalene			2.00	1.13	*-	mg/Kg		56	65 - 120		
Surrogate	LCS %Recovery	LCS Qualifier	Limits								
Terphenyl-d14	62		57 - 145								

Eurofins Seattle

QC Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCSD 580-447218/3-A

Matrix: Solid

Analysis Batch: 447393

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 447218

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Naphthalene			2.00	1.71	*1	mg/Kg		85	65 - 120	41	20
Surrogate	%Recovery	LCSD Qualifier	Limits								
Terphenyl-d14	96		57 - 145								

Lab Sample ID: MB 580-448068/1-A

Matrix: Solid

Analysis Batch: 448323

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 448068

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.0050	0.0016	mg/Kg	-	01/09/24 10:09	01/10/24 18:03	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Terphenyl-d14	108		57 - 145				01/09/24 10:09	01/10/24 18:03	1

Lab Sample ID: LCS 580-448068/2-A

Matrix: Solid

Analysis Batch: 448323

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 448068

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Naphthalene			3.00	2.47		mg/Kg		82	65 - 120
Surrogate	%Recovery	LCS Qualifier	Limits						
Terphenyl-d14	98		57 - 145						

Lab Sample ID: LCSD 580-448068/3-A

Matrix: Solid

Analysis Batch: 448323

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 448068

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Naphthalene			3.00	2.55		mg/Kg		85	65 - 120	3	20
Surrogate	%Recovery	LCSD Qualifier	Limits								
Terphenyl-d14	97		57 - 145								

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) - RE

Lab Sample ID: 580-135260-22 MS

Matrix: Solid

Analysis Batch: 448323

Client Sample ID: MW16-10-20231219

Prep Type: Total/NA

Prep Batch: 448068

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Naphthalene - RE	ND	H	3.86	3.03		mg/Kg	☼	79	65 - 120
Surrogate	%Recovery	MS Qualifier	Limits						
Terphenyl-d14 - RE	91		57 - 145						

Eurofins Seattle

QC Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) - RE (Continued)

Lab Sample ID: 580-135260-22 MSD

Matrix: Solid

Analysis Batch: 448323

Client Sample ID: MW16-10-20231219

Prep Type: Total/NA

Prep Batch: 448068

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Naphthalene - RE	ND	H	3.99	3.13		mg/Kg	☼	78	65 - 120	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Terphenyl-d14 - RE	89		57 - 145								

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-447278/1-A

Matrix: Solid

Analysis Batch: 447721

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 447278

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		50	12	mg/Kg		12/28/23 14:45	01/04/24 14:53	1
Motor Oil (>C24-C36)	ND		50	18	mg/Kg		12/28/23 14:45	01/04/24 14:53	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	98		50 - 150				12/28/23 14:45	01/04/24 14:53	1

Lab Sample ID: LCS 580-447278/2-A

Matrix: Solid

Analysis Batch: 447721

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 447278

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
#2 Diesel (C10-C24)	500	457		mg/Kg		91	70 - 125		
Motor Oil (>C24-C36)	500	466		mg/Kg		93	70 - 129		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
o-Terphenyl	91		50 - 150						

Lab Sample ID: LCSD 580-447278/3-A

Matrix: Solid

Analysis Batch: 447721

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 447278

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
#2 Diesel (C10-C24)	500	467		mg/Kg		93	70 - 125	2	16
Motor Oil (>C24-C36)	500	477		mg/Kg		95	70 - 129	2	16
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
o-Terphenyl	93		50 - 150						

Lab Sample ID: 580-135260-2 DU

Matrix: Solid

Analysis Batch: 447721

Client Sample ID: SB9-5-20231219

Prep Type: Total/NA

Prep Batch: 447278

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
#2 Diesel (C10-C24)	ND		ND		mg/Kg	☼	25	35
Motor Oil (>C24-C36)	240		330		mg/Kg	☼	31	35

Eurofins Seattle

QC Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: 580-135260-2 DU

Matrix: Solid

Analysis Batch: 447721

Client Sample ID: SB9-5-20231219

Prep Type: Total/NA

Prep Batch: 447278

	DU	DU	
Surrogate	%Recovery	Qualifier	Limits
o-Terphenyl	101		50 - 150

Lab Sample ID: MB 580-447283/1-A

Matrix: Solid

Analysis Batch: 447451

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 447283

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
#2 Diesel (C10-C24)	ND		50	12	mg/Kg		12/28/23 15:32	12/29/23 19:36	1	
Motor Oil (>C24-C36)	ND		50	18	mg/Kg		12/28/23 15:32	12/29/23 19:36	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
o-Terphenyl	96		50 - 150				12/28/23 15:32	12/29/23 19:36	1	

Lab Sample ID: LCS 580-447283/2-A

Matrix: Solid

Analysis Batch: 447451

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 447283

			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
#2 Diesel (C10-C24)			500	452		mg/Kg		90	70 - 125	
Motor Oil (>C24-C36)			500	434		mg/Kg		87	70 - 129	
Surrogate	%Recovery	Qualifier	Limits							
o-Terphenyl	76		50 - 150							

Lab Sample ID: LCSD 580-447283/3-A

Matrix: Solid

Analysis Batch: 447451

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 447283

			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
#2 Diesel (C10-C24)			500	440		mg/Kg		88	70 - 125	3	16
Motor Oil (>C24-C36)			500	440		mg/Kg		88	70 - 129	1	16
Surrogate	%Recovery	Qualifier	Limits								
o-Terphenyl	75		50 - 150								

Lab Sample ID: 580-135139-D-7-E DU

Matrix: Solid

Analysis Batch: 447448

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 447283

	Sample	Sample		DU	DU					RPD	
Analyte	Result	Qualifier		Result	Qualifier	Unit	D			RPD	Limit
#2 Diesel (C10-C24)	110			99.4		mg/Kg	☆			9	35
Motor Oil (>C24-C36)	1100			1070		mg/Kg	☆			7	35
Surrogate	%Recovery	Qualifier	Limits								
o-Terphenyl	94		50 - 150								

Eurofins Seattle

QC Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: 580-135260-14 DU

Matrix: Solid

Analysis Batch: 447451

Client Sample ID: MW15-5-20231219

Prep Type: Total/NA

Prep Batch: 447283

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
#2 Diesel (C10-C24)	ND		ND		mg/Kg	☼	NC	35
Motor Oil (>C24-C36)	ND		ND		mg/Kg	☼	7	35
Surrogate	%Recovery	DU Qualifier	DU Limits					
o-Terphenyl	91		50 - 150					

Lab Sample ID: MB 580-447762/1-A

Matrix: Solid

Analysis Batch: 447971

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 447762

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		50	12	mg/Kg		01/04/24 11:11	01/08/24 17:29	1
Motor Oil (>C24-C36)	ND		50	18	mg/Kg		01/04/24 11:11	01/08/24 17:29	1
Surrogate	%Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac			
o-Terphenyl	98		50 - 150	01/04/24 11:11	01/08/24 17:29	1			

Lab Sample ID: LCS 580-447762/2-A

Matrix: Solid

Analysis Batch: 447971

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 447762

			Spike	LCS	LCS						
Analyte			Added	Result	Qualifier	Unit	D	%Rec	%Rec Limits		
#2 Diesel (C10-C24)			500	457		mg/Kg		91	70 - 125		
Motor Oil (>C24-C36)			500	472		mg/Kg		94	70 - 129		
		LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits								
o-Terphenyl	87		50 - 150								

Lab Sample ID: LCSD 580-447762/3-A

Matrix: Solid

Analysis Batch: 447971

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 447762

			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
#2 Diesel (C10-C24)			500	446		mg/Kg		89	70 - 125	3	16
Motor Oil (>C24-C36)			500	465		mg/Kg		93	70 - 129	2	16
			LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits								
o-Terphenyl	91		50 - 150								

Lab Sample ID: 580-135139-D-8-B DU

Matrix: Solid

Analysis Batch: 447971

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 447762

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
#2 Diesel (C10-C24)	270		ND		mg/Kg	☼	4	35
Motor Oil (>C24-C36)	3000		2840		mg/Kg	☼	5	35

Eurofins Seattle

QC Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: 580-135139-D-8-B DU
Matrix: Solid
Analysis Batch: 447971

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 447762

Surrogate	%Recovery	DU DU Qualifier	Limits
<i>o</i> -Terphenyl	92		50 - 150

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 580-447390/22-A
Matrix: Solid
Analysis Batch: 447835

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 447390

Analyte	MB MB Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	0.25	0.024	mg/Kg		01/02/24 09:49	01/04/24 10:41	5

Lab Sample ID: LCS 580-447390/23-A
Matrix: Solid
Analysis Batch: 447835

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 447390

Analyte	Spike Added	LCS LCS Result Qualifier	Unit	D	%Rec	%Rec Limits
Lead	50.0	51.7	mg/Kg		103	80 - 120

Lab Sample ID: LCSD 580-447390/24-A
Matrix: Solid
Analysis Batch: 447835

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 447390

Analyte	Spike Added	LCSD LCSD Result Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Lead	50.0	50.6	mg/Kg		101	80 - 120	2	20

Lab Sample ID: 580-135324-A-1-G MS
Matrix: Solid
Analysis Batch: 447835

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 447390

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS Result Qualifier	Unit	D	%Rec	%Rec Limits
Lead	ND		28.7	28.3	mg/Kg		99	80 - 120

Lab Sample ID: 580-135324-A-1-H MSD
Matrix: Solid
Analysis Batch: 447835

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 447390

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD Result Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Lead	ND		29.2	30.7	mg/Kg		105	80 - 120	8	20

Lab Sample ID: 580-135324-A-1-F DU
Matrix: Solid
Analysis Batch: 447835

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 447390

Analyte	Sample Result	Sample Qualifier	DU DU Result Qualifier	Unit	D	RPD	Limit
Lead	ND		ND	mg/Kg		NC	20

QC Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 580-447518/22-A
Matrix: Solid
Analysis Batch: 447950

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 447518

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.25	0.024	mg/Kg		01/02/24 09:55	01/05/24 14:51	5

Lab Sample ID: LCS 580-447518/23-A
Matrix: Solid
Analysis Batch: 447950

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 447518

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	50.0	49.2		mg/Kg		98	80 - 120

Lab Sample ID: LCSD 580-447518/24-A
Matrix: Solid
Analysis Batch: 447950

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 447518

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	50.0	50.9		mg/Kg		102	80 - 120	3	20

Lab Sample ID: 580-135260-14 MS
Matrix: Solid
Analysis Batch: 447950

Client Sample ID: MW15-5-20231219
Prep Type: Total/NA
Prep Batch: 447518

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	6.4		50.7	57.1		mg/Kg	✱	100	80 - 120

Lab Sample ID: 580-135260-14 MSD
Matrix: Solid
Analysis Batch: 447950

Client Sample ID: MW15-5-20231219
Prep Type: Total/NA
Prep Batch: 447518

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	6.4		50.9	58.4		mg/Kg	✱	102	80 - 120	2	20

Lab Sample ID: 580-135260-14 DU
Matrix: Solid
Analysis Batch: 447950

Client Sample ID: MW15-5-20231219
Prep Type: Total/NA
Prep Batch: 447518

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	6.4		6.02		mg/Kg	✱	7	20

QC Association Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

GC/MS VOA

Prep Batch: 447279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-135260-10	MW14-17.5-20231221	Total/NA	Solid	5035	
580-135260-14	MW15-5-20231219	Total/NA	Solid	5035	
580-135260-16	MW15-10-20231220	Total/NA	Solid	5035	
580-135260-20	MW15-35-20231220	Total/NA	Solid	5035	
MB 580-447279/1-A	Method Blank	Total/NA	Solid	5035	
LCS 580-447279/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 580-447279/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 447281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-135260-2	SB9-5-20231219	Total/NA	Solid	5035	
580-135260-3	SB9-10-20231220	Total/NA	Solid	5035	
580-135260-4	SB9-15-20231220	Total/NA	Solid	5035	
580-135260-5	SB9-20-20231220	Total/NA	Solid	5035	
580-135260-6	SB9-25-20231220	Total/NA	Solid	5035	
580-135260-7	MW14-5-20231218	Total/NA	Solid	5035	
580-135260-8	MW14-10-20231221	Total/NA	Solid	5035	
580-135260-9	MW14-15-20231221	Total/NA	Solid	5035	
580-135260-10	MW14-17.5-20231221	Total/NA	Solid	5035	
580-135260-11	MW14-20-20231221	Total/NA	Solid	5035	
580-135260-13	MW14-30-20231221	Total/NA	Solid	5035	
580-135260-14	MW15-5-20231219	Total/NA	Solid	5035	
580-135260-15	MW15-10-20231220	Total/NA	Solid	5035	
580-135260-16	MW15-10-20231220	Total/NA	Solid	5035	
580-135260-17	MW15-20-20231220	Total/NA	Solid	5035	
580-135260-18	MW15-25-20231220	Total/NA	Solid	5035	
580-135260-19	MW15-30-20231220	Total/NA	Solid	5035	
580-135260-20	MW15-35-20231220	Total/NA	Solid	5035	
580-135260-21	MW16-5-20231219	Total/NA	Solid	5035	
580-135260-22	MW16-10-20231219	Total/NA	Solid	5035	
MB 580-447281/1-A	Method Blank	Total/NA	Solid	5035	
LCS 580-447281/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 580-447281/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 447295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-135260-2	SB9-5-20231219	Total/NA	Solid	8260D	447281
580-135260-3	SB9-10-20231220	Total/NA	Solid	8260D	447281
580-135260-4	SB9-15-20231220	Total/NA	Solid	8260D	447281
580-135260-5	SB9-20-20231220	Total/NA	Solid	8260D	447281
580-135260-6	SB9-25-20231220	Total/NA	Solid	8260D	447281
580-135260-7	MW14-5-20231218	Total/NA	Solid	8260D	447281
580-135260-8	MW14-10-20231221	Total/NA	Solid	8260D	447281
580-135260-9	MW14-15-20231221	Total/NA	Solid	8260D	447281
580-135260-10	MW14-17.5-20231221	Total/NA	Solid	8260D	447281
580-135260-11	MW14-20-20231221	Total/NA	Solid	8260D	447281
580-135260-13	MW14-30-20231221	Total/NA	Solid	8260D	447281
580-135260-14	MW15-5-20231219	Total/NA	Solid	8260D	447281
580-135260-15	MW15-10-20231220	Total/NA	Solid	8260D	447281
580-135260-16	MW15-10-20231220	Total/NA	Solid	8260D	447281
580-135260-17	MW15-20-20231220	Total/NA	Solid	8260D	447281

Eurofins Seattle

QC Association Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

GC/MS VOA (Continued)

Analysis Batch: 447295 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-135260-18	MW15-25-20231220	Total/NA	Solid	8260D	447281
580-135260-19	MW15-30-20231220	Total/NA	Solid	8260D	447281
580-135260-20	MW15-35-20231220	Total/NA	Solid	8260D	447281
580-135260-21	MW16-5-20231219	Total/NA	Solid	8260D	447281
580-135260-22	MW16-10-20231219	Total/NA	Solid	8260D	447281
MB 580-447281/1-A	Method Blank	Total/NA	Solid	8260D	447281
LCS 580-447281/2-A	Lab Control Sample	Total/NA	Solid	8260D	447281
LCSD 580-447281/3-A	Lab Control Sample Dup	Total/NA	Solid	8260D	447281

Analysis Batch: 447311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-135260-14	MW15-5-20231219	Total/NA	Solid	NWTPH-Gx	447279
580-135260-16	MW15-10-20231220	Total/NA	Solid	NWTPH-Gx	447279
580-135260-20	MW15-35-20231220	Total/NA	Solid	NWTPH-Gx	447279

Analysis Batch: 447314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-135260-10	MW14-17.5-20231221	Total/NA	Solid	8260D	447279
MB 580-447279/1-A	Method Blank	Total/NA	Solid	8260D	447279
LCS 580-447279/2-A	Lab Control Sample	Total/NA	Solid	8260D	447279
LCSD 580-447279/3-A	Lab Control Sample Dup	Total/NA	Solid	8260D	447279

Prep Batch: 447406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-135260-23	MW16-15-20231219	Total/NA	Solid	5035	
580-135260-24	MW16-20-20231219	Total/NA	Solid	5035	
580-135260-25	MW16-25-20231219	Total/NA	Solid	5035	
580-135260-26	MW16-30-20231219	Total/NA	Solid	5035	
MB 580-447406/1-A	Method Blank	Total/NA	Solid	5035	
LCS 580-447406/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 580-447406/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 447410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-135260-23	MW16-15-20231219	Total/NA	Solid	8260D	447406
580-135260-24	MW16-20-20231219	Total/NA	Solid	8260D	447406
580-135260-25	MW16-25-20231219	Total/NA	Solid	8260D	447406
580-135260-26	MW16-30-20231219	Total/NA	Solid	8260D	447406
MB 580-447406/1-A	Method Blank	Total/NA	Solid	8260D	447406
LCS 580-447406/2-A	Lab Control Sample	Total/NA	Solid	8260D	447406
LCSD 580-447406/3-A	Lab Control Sample Dup	Total/NA	Solid	8260D	447406

Prep Batch: 447432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-135260-2	SB9-5-20231219	Total/NA	Solid	5035	
580-135260-3	SB9-10-20231220	Total/NA	Solid	5035	
580-135260-4	SB9-15-20231220	Total/NA	Solid	5035	
580-135260-5	SB9-20-20231220	Total/NA	Solid	5035	
580-135260-6	SB9-25-20231220	Total/NA	Solid	5035	
580-135260-7	MW14-5-20231218	Total/NA	Solid	5035	
580-135260-8	MW14-10-20231221	Total/NA	Solid	5035	

Eurofins Seattle

QC Association Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

GC/MS VOA (Continued)

Prep Batch: 447432 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-135260-9	MW14-15-20231221	Total/NA	Solid	5035	
580-135260-10	MW14-17.5-20231221	Total/NA	Solid	5035	
580-135260-11	MW14-20-20231221	Total/NA	Solid	5035	
580-135260-13	MW14-30-20231221	Total/NA	Solid	5035	
580-135260-21	MW16-5-20231219	Total/NA	Solid	5035	
580-135260-22	MW16-10-20231219	Total/NA	Solid	5035	
580-135260-23	MW16-15-20231219	Total/NA	Solid	5035	
580-135260-24	MW16-20-20231219	Total/NA	Solid	5035	
580-135260-25	MW16-25-20231219	Total/NA	Solid	5035	
580-135260-26	MW16-30-20231219	Total/NA	Solid	5035	
MB 580-447432/1-A	Method Blank	Total/NA	Solid	5035	
LCS 580-447432/4-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 580-447432/5-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 447457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-135260-2	SB9-5-20231219	Total/NA	Solid	NWTPH-Gx	447432
580-135260-3	SB9-10-20231220	Total/NA	Solid	NWTPH-Gx	447432
580-135260-4	SB9-15-20231220	Total/NA	Solid	NWTPH-Gx	447432
580-135260-5	SB9-20-20231220	Total/NA	Solid	NWTPH-Gx	447432
580-135260-6	SB9-25-20231220	Total/NA	Solid	NWTPH-Gx	447432
580-135260-7	MW14-5-20231218	Total/NA	Solid	NWTPH-Gx	447432
580-135260-8	MW14-10-20231221	Total/NA	Solid	NWTPH-Gx	447432
580-135260-9	MW14-15-20231221	Total/NA	Solid	NWTPH-Gx	447432
580-135260-10	MW14-17.5-20231221	Total/NA	Solid	NWTPH-Gx	447432
580-135260-11	MW14-20-20231221	Total/NA	Solid	NWTPH-Gx	447432
580-135260-13	MW14-30-20231221	Total/NA	Solid	NWTPH-Gx	447432
580-135260-21	MW16-5-20231219	Total/NA	Solid	NWTPH-Gx	447432
580-135260-22	MW16-10-20231219	Total/NA	Solid	NWTPH-Gx	447432
580-135260-23	MW16-15-20231219	Total/NA	Solid	NWTPH-Gx	447432
580-135260-24	MW16-20-20231219	Total/NA	Solid	NWTPH-Gx	447432
580-135260-25	MW16-25-20231219	Total/NA	Solid	NWTPH-Gx	447432
580-135260-26	MW16-30-20231219	Total/NA	Solid	NWTPH-Gx	447432
MB 580-447432/1-A	Method Blank	Total/NA	Solid	NWTPH-Gx	447432
LCS 580-447432/4-A	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	447432
LCSD 580-447432/5-A	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	447432

Prep Batch: 447472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-135260-2 - RA	SB9-5-20231219	Total/NA	Solid	5035	
580-135260-3 - RA	SB9-10-20231220	Total/NA	Solid	5035	
580-135260-4 - RA	SB9-15-20231220	Total/NA	Solid	5035	
580-135260-5 - RA	SB9-20-20231220	Total/NA	Solid	5035	
580-135260-6 - RA	SB9-25-20231220	Total/NA	Solid	5035	
580-135260-7 - RA	MW14-5-20231218	Total/NA	Solid	5035	
580-135260-8 - RA	MW14-10-20231221	Total/NA	Solid	5035	
580-135260-9 - RA	MW14-15-20231221	Total/NA	Solid	5035	
580-135260-10 - RA	MW14-17.5-20231221	Total/NA	Solid	5035	
580-135260-11 - RA	MW14-20-20231221	Total/NA	Solid	5035	
580-135260-13 - RA	MW14-30-20231221	Total/NA	Solid	5035	
580-135260-14 - RA	MW15-5-20231219	Total/NA	Solid	5035	

Eurofins Seattle

QC Association Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

GC/MS VOA (Continued)

Prep Batch: 447472 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-135260-15 - RA	MW15-10-20231220	Total/NA	Solid	5035	
580-135260-16 - RA	MW15-10-20231220	Total/NA	Solid	5035	
580-135260-17 - RA	MW15-20-20231220	Total/NA	Solid	5035	
580-135260-18 - RA	MW15-25-20231220	Total/NA	Solid	5035	
580-135260-19 - RA	MW15-30-20231220	Total/NA	Solid	5035	
580-135260-20 - RA	MW15-35-20231220	Total/NA	Solid	5035	
580-135260-21 - RA	MW16-5-20231219	Total/NA	Solid	5035	
580-135260-22 - RA	MW16-10-20231219	Total/NA	Solid	5035	
MB 580-447472/1-A	Method Blank	Total/NA	Solid	5035	
LCS 580-447472/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 580-447472/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 447475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-135260-2 - RA	SB9-5-20231219	Total/NA	Solid	8260D	447472
580-135260-3 - RA	SB9-10-20231220	Total/NA	Solid	8260D	447472
580-135260-4 - RA	SB9-15-20231220	Total/NA	Solid	8260D	447472
580-135260-5 - RA	SB9-20-20231220	Total/NA	Solid	8260D	447472
580-135260-6 - RA	SB9-25-20231220	Total/NA	Solid	8260D	447472
580-135260-7 - RA	MW14-5-20231218	Total/NA	Solid	8260D	447472
580-135260-8 - RA	MW14-10-20231221	Total/NA	Solid	8260D	447472
580-135260-9 - RA	MW14-15-20231221	Total/NA	Solid	8260D	447472
580-135260-10 - RA	MW14-17.5-20231221	Total/NA	Solid	8260D	447472
580-135260-11 - RA	MW14-20-20231221	Total/NA	Solid	8260D	447472
580-135260-13 - RA	MW14-30-20231221	Total/NA	Solid	8260D	447472
580-135260-14 - RA	MW15-5-20231219	Total/NA	Solid	8260D	447472
580-135260-15 - RA	MW15-10-20231220	Total/NA	Solid	8260D	447472
580-135260-16 - RA	MW15-10-20231220	Total/NA	Solid	8260D	447472
580-135260-17 - RA	MW15-20-20231220	Total/NA	Solid	8260D	447472
580-135260-18 - RA	MW15-25-20231220	Total/NA	Solid	8260D	447472
580-135260-19 - RA	MW15-30-20231220	Total/NA	Solid	8260D	447472
580-135260-20 - RA	MW15-35-20231220	Total/NA	Solid	8260D	447472
580-135260-21 - RA	MW16-5-20231219	Total/NA	Solid	8260D	447472
580-135260-22 - RA	MW16-10-20231219	Total/NA	Solid	8260D	447472
MB 580-447472/1-A	Method Blank	Total/NA	Solid	8260D	447472
LCS 580-447472/2-A	Lab Control Sample	Total/NA	Solid	8260D	447472
LCSD 580-447472/3-A	Lab Control Sample Dup	Total/NA	Solid	8260D	447472

Prep Batch: 447623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-135260-14	MW15-5-20231219	Total/NA	Solid	5035	
580-135260-15	MW15-10-20231220	Total/NA	Solid	5035	
580-135260-16	MW15-10-20231220	Total/NA	Solid	5035	
580-135260-17	MW15-20-20231220	Total/NA	Solid	5035	
580-135260-18	MW15-25-20231220	Total/NA	Solid	5035	
580-135260-19	MW15-30-20231220	Total/NA	Solid	5035	
580-135260-20	MW15-35-20231220	Total/NA	Solid	5035	
MB 580-447623/1-A	Method Blank	Total/NA	Solid	5035	
LCS 580-447623/4-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 580-447623/5-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Eurofins Seattle

QC Association Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

GC/MS VOA

Analysis Batch: 447688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-135260-14	MW15-5-20231219	Total/NA	Solid	NWTPH-Gx	447623
580-135260-15	MW15-10-20231220	Total/NA	Solid	NWTPH-Gx	447623
580-135260-16	MW15-10-20231220	Total/NA	Solid	NWTPH-Gx	447623
580-135260-17	MW15-20-20231220	Total/NA	Solid	NWTPH-Gx	447623
580-135260-18	MW15-25-20231220	Total/NA	Solid	NWTPH-Gx	447623
580-135260-19	MW15-30-20231220	Total/NA	Solid	NWTPH-Gx	447623
580-135260-20	MW15-35-20231220	Total/NA	Solid	NWTPH-Gx	447623
MB 580-447623/1-A	Method Blank	Total/NA	Solid	NWTPH-Gx	447623
LCS 580-447623/4-A	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	447623
LCSD 580-447623/5-A	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	447623

GC/MS Semi VOA

Prep Batch: 447131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-135260-2	SB9-5-20231219	Total/NA	Solid	3546	
580-135260-3	SB9-10-20231220	Total/NA	Solid	3546	
580-135260-4	SB9-15-20231220	Total/NA	Solid	3546	
580-135260-5	SB9-20-20231220	Total/NA	Solid	3546	
580-135260-6	SB9-25-20231220	Total/NA	Solid	3546	
580-135260-7	MW14-5-20231218	Total/NA	Solid	3546	
580-135260-8	MW14-10-20231221	Total/NA	Solid	3546	
580-135260-9	MW14-15-20231221	Total/NA	Solid	3546	
580-135260-10	MW14-17.5-20231221	Total/NA	Solid	3546	
580-135260-11	MW14-20-20231221	Total/NA	Solid	3546	
580-135260-13	MW14-30-20231221	Total/NA	Solid	3546	
580-135260-14	MW15-5-20231219	Total/NA	Solid	3546	
580-135260-15	MW15-10-20231220	Total/NA	Solid	3546	
580-135260-16	MW15-10-20231220	Total/NA	Solid	3546	
580-135260-17	MW15-20-20231220	Total/NA	Solid	3546	
580-135260-18	MW15-25-20231220	Total/NA	Solid	3546	
580-135260-19	MW15-30-20231220	Total/NA	Solid	3546	
580-135260-20	MW15-35-20231220	Total/NA	Solid	3546	
580-135260-21	MW16-5-20231219	Total/NA	Solid	3546	
MB 580-447131/1-A	Method Blank	Total/NA	Solid	3546	
LCS 580-447131/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 580-447131/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
580-135260-2 MS	SB9-5-20231219	Total/NA	Solid	3546	
580-135260-2 MSD	SB9-5-20231219	Total/NA	Solid	3546	

Prep Batch: 447218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-135260-22	MW16-10-20231219	Total/NA	Solid	3546	
580-135260-23	MW16-15-20231219	Total/NA	Solid	3546	
580-135260-24	MW16-20-20231219	Total/NA	Solid	3546	
580-135260-25	MW16-25-20231219	Total/NA	Solid	3546	
580-135260-26	MW16-30-20231219	Total/NA	Solid	3546	
MB 580-447218/1-A	Method Blank	Total/NA	Solid	3546	
LCS 580-447218/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 580-447218/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Eurofins Seattle

QC Association Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

GC/MS Semi VOA

Analysis Batch: 447393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-135260-22	MW16-10-20231219	Total/NA	Solid	8270E SIM	447218
580-135260-23	MW16-15-20231219	Total/NA	Solid	8270E SIM	447218
580-135260-24	MW16-20-20231219	Total/NA	Solid	8270E SIM	447218
580-135260-25	MW16-25-20231219	Total/NA	Solid	8270E SIM	447218
580-135260-26	MW16-30-20231219	Total/NA	Solid	8270E SIM	447218
MB 580-447218/1-A	Method Blank	Total/NA	Solid	8270E SIM	447218
LCS 580-447218/2-A	Lab Control Sample	Total/NA	Solid	8270E SIM	447218
LCSD 580-447218/3-A	Lab Control Sample Dup	Total/NA	Solid	8270E SIM	447218

Analysis Batch: 447637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-135260-2	SB9-5-20231219	Total/NA	Solid	8270E SIM	447131
580-135260-3	SB9-10-20231220	Total/NA	Solid	8270E SIM	447131
580-135260-4	SB9-15-20231220	Total/NA	Solid	8270E SIM	447131
580-135260-5	SB9-20-20231220	Total/NA	Solid	8270E SIM	447131
580-135260-6	SB9-25-20231220	Total/NA	Solid	8270E SIM	447131
580-135260-7	MW14-5-20231218	Total/NA	Solid	8270E SIM	447131
580-135260-8	MW14-10-20231221	Total/NA	Solid	8270E SIM	447131
580-135260-9	MW14-15-20231221	Total/NA	Solid	8270E SIM	447131
580-135260-10	MW14-17.5-20231221	Total/NA	Solid	8270E SIM	447131
580-135260-11	MW14-20-20231221	Total/NA	Solid	8270E SIM	447131
580-135260-13	MW14-30-20231221	Total/NA	Solid	8270E SIM	447131
580-135260-14	MW15-5-20231219	Total/NA	Solid	8270E SIM	447131
580-135260-15	MW15-10-20231220	Total/NA	Solid	8270E SIM	447131
580-135260-16	MW15-10-20231220	Total/NA	Solid	8270E SIM	447131
580-135260-17	MW15-20-20231220	Total/NA	Solid	8270E SIM	447131
580-135260-18	MW15-25-20231220	Total/NA	Solid	8270E SIM	447131
580-135260-19	MW15-30-20231220	Total/NA	Solid	8270E SIM	447131
580-135260-20	MW15-35-20231220	Total/NA	Solid	8270E SIM	447131
580-135260-21	MW16-5-20231219	Total/NA	Solid	8270E SIM	447131
MB 580-447131/1-A	Method Blank	Total/NA	Solid	8270E SIM	447131
LCS 580-447131/2-A	Lab Control Sample	Total/NA	Solid	8270E SIM	447131
LCSD 580-447131/3-A	Lab Control Sample Dup	Total/NA	Solid	8270E SIM	447131
580-135260-2 MS	SB9-5-20231219	Total/NA	Solid	8270E SIM	447131
580-135260-2 MSD	SB9-5-20231219	Total/NA	Solid	8270E SIM	447131

Prep Batch: 448068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-135260-22 - RE	MW16-10-20231219	Total/NA	Solid	3546	
580-135260-23 - RE	MW16-15-20231219	Total/NA	Solid	3546	
580-135260-24 - RE	MW16-20-20231219	Total/NA	Solid	3546	
580-135260-25 - RE	MW16-25-20231219	Total/NA	Solid	3546	
580-135260-26 - RE	MW16-30-20231219	Total/NA	Solid	3546	
MB 580-448068/1-A	Method Blank	Total/NA	Solid	3546	
LCS 580-448068/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 580-448068/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
580-135260-22 MS - RE	MW16-10-20231219	Total/NA	Solid	3546	
580-135260-22 MSD - RE	MW16-10-20231219	Total/NA	Solid	3546	

QC Association Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

GC/MS Semi VOA

Analysis Batch: 448323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-135260-22 - RE	MW16-10-20231219	Total/NA	Solid	8270E SIM	448068
580-135260-23 - RE	MW16-15-20231219	Total/NA	Solid	8270E SIM	448068
580-135260-24 - RE	MW16-20-20231219	Total/NA	Solid	8270E SIM	448068
580-135260-25 - RE	MW16-25-20231219	Total/NA	Solid	8270E SIM	448068
580-135260-26 - RE	MW16-30-20231219	Total/NA	Solid	8270E SIM	448068
MB 580-448068/1-A	Method Blank	Total/NA	Solid	8270E SIM	448068
LCS 580-448068/2-A	Lab Control Sample	Total/NA	Solid	8270E SIM	448068
LCSD 580-448068/3-A	Lab Control Sample Dup	Total/NA	Solid	8270E SIM	448068
580-135260-22 MS - RE	MW16-10-20231219	Total/NA	Solid	8270E SIM	448068
580-135260-22 MSD - RE	MW16-10-20231219	Total/NA	Solid	8270E SIM	448068

GC Semi VOA

Prep Batch: 447278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-135260-2	SB9-5-20231219	Total/NA	Solid	3546	
580-135260-3	SB9-10-20231220	Total/NA	Solid	3546	
580-135260-4	SB9-15-20231220	Total/NA	Solid	3546	
580-135260-5	SB9-20-20231220	Total/NA	Solid	3546	
580-135260-6	SB9-25-20231220	Total/NA	Solid	3546	
580-135260-7	MW14-5-20231218	Total/NA	Solid	3546	
580-135260-8	MW14-10-20231221	Total/NA	Solid	3546	
580-135260-9	MW14-15-20231221	Total/NA	Solid	3546	
MB 580-447278/1-A	Method Blank	Total/NA	Solid	3546	
LCS 580-447278/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 580-447278/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
580-135260-2 DU	SB9-5-20231219	Total/NA	Solid	3546	

Prep Batch: 447283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-135260-10	MW14-17.5-20231221	Total/NA	Solid	3546	
580-135260-11	MW14-20-20231221	Total/NA	Solid	3546	
580-135260-13	MW14-30-20231221	Total/NA	Solid	3546	
580-135260-14	MW15-5-20231219	Total/NA	Solid	3546	
580-135260-15	MW15-10-20231220	Total/NA	Solid	3546	
580-135260-16	MW15-10-20231220	Total/NA	Solid	3546	
580-135260-17	MW15-20-20231220	Total/NA	Solid	3546	
580-135260-18	MW15-25-20231220	Total/NA	Solid	3546	
580-135260-19	MW15-30-20231220	Total/NA	Solid	3546	
580-135260-20	MW15-35-20231220	Total/NA	Solid	3546	
580-135260-21	MW16-5-20231219	Total/NA	Solid	3546	
580-135260-22	MW16-10-20231219	Total/NA	Solid	3546	
580-135260-23	MW16-15-20231219	Total/NA	Solid	3546	
580-135260-24	MW16-20-20231219	Total/NA	Solid	3546	
580-135260-25	MW16-25-20231219	Total/NA	Solid	3546	
MB 580-447283/1-A	Method Blank	Total/NA	Solid	3546	
LCS 580-447283/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 580-447283/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
580-135139-D-7-E DU	Duplicate	Total/NA	Solid	3546	
580-135260-14 DU	MW15-5-20231219	Total/NA	Solid	3546	

Eurofins Seattle

QC Association Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

GC Semi VOA

Analysis Batch: 447448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-135260-10	MW14-17.5-20231221	Total/NA	Solid	NWTPH-Dx	447283
580-135260-11	MW14-20-20231221	Total/NA	Solid	NWTPH-Dx	447283
580-135260-13	MW14-30-20231221	Total/NA	Solid	NWTPH-Dx	447283
580-135260-20	MW15-35-20231220	Total/NA	Solid	NWTPH-Dx	447283
580-135260-22	MW16-10-20231219	Total/NA	Solid	NWTPH-Dx	447283
580-135260-23	MW16-15-20231219	Total/NA	Solid	NWTPH-Dx	447283
580-135260-24	MW16-20-20231219	Total/NA	Solid	NWTPH-Dx	447283
580-135260-25	MW16-25-20231219	Total/NA	Solid	NWTPH-Dx	447283
580-135139-D-7-E DU	Duplicate	Total/NA	Solid	NWTPH-Dx	447283

Analysis Batch: 447451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-135260-14	MW15-5-20231219	Total/NA	Solid	NWTPH-Dx	447283
580-135260-15	MW15-10-20231220	Total/NA	Solid	NWTPH-Dx	447283
580-135260-16	MW15-10-20231220	Total/NA	Solid	NWTPH-Dx	447283
580-135260-17	MW15-20-20231220	Total/NA	Solid	NWTPH-Dx	447283
580-135260-18	MW15-25-20231220	Total/NA	Solid	NWTPH-Dx	447283
580-135260-19	MW15-30-20231220	Total/NA	Solid	NWTPH-Dx	447283
580-135260-21	MW16-5-20231219	Total/NA	Solid	NWTPH-Dx	447283
MB 580-447283/1-A	Method Blank	Total/NA	Solid	NWTPH-Dx	447283
LCS 580-447283/2-A	Lab Control Sample	Total/NA	Solid	NWTPH-Dx	447283
LCSD 580-447283/3-A	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Dx	447283
580-135260-14 DU	MW15-5-20231219	Total/NA	Solid	NWTPH-Dx	447283

Analysis Batch: 447721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-135260-2	SB9-5-20231219	Total/NA	Solid	NWTPH-Dx	447278
580-135260-3	SB9-10-20231220	Total/NA	Solid	NWTPH-Dx	447278
580-135260-4	SB9-15-20231220	Total/NA	Solid	NWTPH-Dx	447278
580-135260-5	SB9-20-20231220	Total/NA	Solid	NWTPH-Dx	447278
580-135260-6	SB9-25-20231220	Total/NA	Solid	NWTPH-Dx	447278
580-135260-7	MW14-5-20231218	Total/NA	Solid	NWTPH-Dx	447278
580-135260-8	MW14-10-20231221	Total/NA	Solid	NWTPH-Dx	447278
580-135260-9	MW14-15-20231221	Total/NA	Solid	NWTPH-Dx	447278
MB 580-447278/1-A	Method Blank	Total/NA	Solid	NWTPH-Dx	447278
LCS 580-447278/2-A	Lab Control Sample	Total/NA	Solid	NWTPH-Dx	447278
LCSD 580-447278/3-A	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Dx	447278
580-135260-2 DU	SB9-5-20231219	Total/NA	Solid	NWTPH-Dx	447278

Prep Batch: 447762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-135260-26	MW16-30-20231219	Total/NA	Solid	3546	
MB 580-447762/1-A	Method Blank	Total/NA	Solid	3546	
LCS 580-447762/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 580-447762/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
580-135139-D-8-B DU	Duplicate	Total/NA	Solid	3546	

Analysis Batch: 447971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-135260-26	MW16-30-20231219	Total/NA	Solid	NWTPH-Dx	447762
MB 580-447762/1-A	Method Blank	Total/NA	Solid	NWTPH-Dx	447762

Eurofins Seattle

QC Association Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

GC Semi VOA (Continued)

Analysis Batch: 447971 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 580-447762/2-A	Lab Control Sample	Total/NA	Solid	NWTPH-Dx	447762
LCSD 580-447762/3-A	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Dx	447762
580-135139-D-8-B DU	Duplicate	Total/NA	Solid	NWTPH-Dx	447762

Metals

Prep Batch: 447390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-135260-2	SB9-5-20231219	Total/NA	Solid	3050B	
580-135260-3	SB9-10-20231220	Total/NA	Solid	3050B	
580-135260-4	SB9-15-20231220	Total/NA	Solid	3050B	
580-135260-5	SB9-20-20231220	Total/NA	Solid	3050B	
580-135260-6	SB9-25-20231220	Total/NA	Solid	3050B	
580-135260-7	MW14-5-20231218	Total/NA	Solid	3050B	
580-135260-8	MW14-10-20231221	Total/NA	Solid	3050B	
580-135260-9	MW14-15-20231221	Total/NA	Solid	3050B	
580-135260-10	MW14-17.5-20231221	Total/NA	Solid	3050B	
580-135260-11	MW14-20-20231221	Total/NA	Solid	3050B	
580-135260-13	MW14-30-20231221	Total/NA	Solid	3050B	
MB 580-447390/22-A	Method Blank	Total/NA	Solid	3050B	
LCS 580-447390/23-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 580-447390/24-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
580-135324-A-1-G MS	Matrix Spike	Total/NA	Solid	3050B	
580-135324-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	
580-135324-A-1-F DU	Duplicate	Total/NA	Solid	3050B	

Prep Batch: 447518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-135260-14	MW15-5-20231219	Total/NA	Solid	3050B	
580-135260-15	MW15-10-20231220	Total/NA	Solid	3050B	
580-135260-16	MW15-10-20231220	Total/NA	Solid	3050B	
580-135260-17	MW15-20-20231220	Total/NA	Solid	3050B	
580-135260-18	MW15-25-20231220	Total/NA	Solid	3050B	
580-135260-19	MW15-30-20231220	Total/NA	Solid	3050B	
580-135260-20	MW15-35-20231220	Total/NA	Solid	3050B	
580-135260-21	MW16-5-20231219	Total/NA	Solid	3050B	
580-135260-22	MW16-10-20231219	Total/NA	Solid	3050B	
580-135260-23	MW16-15-20231219	Total/NA	Solid	3050B	
580-135260-24	MW16-20-20231219	Total/NA	Solid	3050B	
580-135260-25	MW16-25-20231219	Total/NA	Solid	3050B	
580-135260-26	MW16-30-20231219	Total/NA	Solid	3050B	
MB 580-447518/22-A	Method Blank	Total/NA	Solid	3050B	
LCS 580-447518/23-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 580-447518/24-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
580-135260-14 MS	MW15-5-20231219	Total/NA	Solid	3050B	
580-135260-14 MSD	MW15-5-20231219	Total/NA	Solid	3050B	
580-135260-14 DU	MW15-5-20231219	Total/NA	Solid	3050B	

Analysis Batch: 447835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-135260-2	SB9-5-20231219	Total/NA	Solid	6020B	447390

Eurofins Seattle

QC Association Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Metals (Continued)

Analysis Batch: 447835 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-135260-3	SB9-10-20231220	Total/NA	Solid	6020B	447390
580-135260-4	SB9-15-20231220	Total/NA	Solid	6020B	447390
580-135260-5	SB9-20-20231220	Total/NA	Solid	6020B	447390
580-135260-6	SB9-25-20231220	Total/NA	Solid	6020B	447390
580-135260-7	MW14-5-20231218	Total/NA	Solid	6020B	447390
580-135260-8	MW14-10-20231221	Total/NA	Solid	6020B	447390
580-135260-9	MW14-15-20231221	Total/NA	Solid	6020B	447390
580-135260-10	MW14-17.5-20231221	Total/NA	Solid	6020B	447390
580-135260-11	MW14-20-20231221	Total/NA	Solid	6020B	447390
580-135260-13	MW14-30-20231221	Total/NA	Solid	6020B	447390
MB 580-447390/22-A	Method Blank	Total/NA	Solid	6020B	447390
LCS 580-447390/23-A	Lab Control Sample	Total/NA	Solid	6020B	447390
LCSD 580-447390/24-A	Lab Control Sample Dup	Total/NA	Solid	6020B	447390
580-135324-A-1-G MS	Matrix Spike	Total/NA	Solid	6020B	447390
580-135324-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	6020B	447390
580-135324-A-1-F DU	Duplicate	Total/NA	Solid	6020B	447390

Analysis Batch: 447950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-135260-14	MW15-5-20231219	Total/NA	Solid	6020B	447518
580-135260-15	MW15-10-20231220	Total/NA	Solid	6020B	447518
580-135260-16	MW15-10-20231220	Total/NA	Solid	6020B	447518
580-135260-17	MW15-20-20231220	Total/NA	Solid	6020B	447518
580-135260-18	MW15-25-20231220	Total/NA	Solid	6020B	447518
580-135260-19	MW15-30-20231220	Total/NA	Solid	6020B	447518
580-135260-20	MW15-35-20231220	Total/NA	Solid	6020B	447518
580-135260-21	MW16-5-20231219	Total/NA	Solid	6020B	447518
580-135260-22	MW16-10-20231219	Total/NA	Solid	6020B	447518
580-135260-23	MW16-15-20231219	Total/NA	Solid	6020B	447518
580-135260-24	MW16-20-20231219	Total/NA	Solid	6020B	447518
580-135260-25	MW16-25-20231219	Total/NA	Solid	6020B	447518
580-135260-26	MW16-30-20231219	Total/NA	Solid	6020B	447518
MB 580-447518/22-A	Method Blank	Total/NA	Solid	6020B	447518
LCS 580-447518/23-A	Lab Control Sample	Total/NA	Solid	6020B	447518
LCSD 580-447518/24-A	Lab Control Sample Dup	Total/NA	Solid	6020B	447518
580-135260-14 MS	MW15-5-20231219	Total/NA	Solid	6020B	447518
580-135260-14 MSD	MW15-5-20231219	Total/NA	Solid	6020B	447518
580-135260-14 DU	MW15-5-20231219	Total/NA	Solid	6020B	447518

General Chemistry

Analysis Batch: 447130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-135260-2	SB9-5-20231219	Total/NA	Solid	2540G	
580-135260-3	SB9-10-20231220	Total/NA	Solid	2540G	
580-135260-4	SB9-15-20231220	Total/NA	Solid	2540G	
580-135260-5	SB9-20-20231220	Total/NA	Solid	2540G	
580-135260-6	SB9-25-20231220	Total/NA	Solid	2540G	
580-135260-7	MW14-5-20231218	Total/NA	Solid	2540G	
580-135260-8	MW14-10-20231221	Total/NA	Solid	2540G	
580-135260-9	MW14-15-20231221	Total/NA	Solid	2540G	

Eurofins Seattle

QC Association Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

General Chemistry (Continued)

Analysis Batch: 447130 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-135260-10	MW14-17.5-20231221	Total/NA	Solid	2540G	
580-135260-11	MW14-20-20231221	Total/NA	Solid	2540G	
580-135260-13	MW14-30-20231221	Total/NA	Solid	2540G	
580-135260-14	MW15-5-20231219	Total/NA	Solid	2540G	
580-135260-15	MW15-10-20231220	Total/NA	Solid	2540G	
580-135260-16	MW15-10-20231220	Total/NA	Solid	2540G	
580-135260-17	MW15-20-20231220	Total/NA	Solid	2540G	
580-135260-18	MW15-25-20231220	Total/NA	Solid	2540G	
580-135260-19	MW15-30-20231220	Total/NA	Solid	2540G	
580-135260-20	MW15-35-20231220	Total/NA	Solid	2540G	
580-135260-21	MW16-5-20231219	Total/NA	Solid	2540G	
580-135260-22	MW16-10-20231219	Total/NA	Solid	2540G	
580-135260-23	MW16-15-20231219	Total/NA	Solid	2540G	
580-135260-24	MW16-20-20231219	Total/NA	Solid	2540G	
580-135260-25	MW16-25-20231219	Total/NA	Solid	2540G	
580-135260-26	MW16-30-20231219	Total/NA	Solid	2540G	
580-135260-2 DU	SB9-5-20231219	Total/NA	Solid	2540G	
580-135260-3 DU	SB9-10-20231220	Total/NA	Solid	2540G	

Lab Chronicle

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Client Sample ID: SB9-5-20231219

Lab Sample ID: 580-135260-2

Date Collected: 12/19/23 14:15

Matrix: Solid

Date Received: 12/22/23 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	447130	TMH	EET SEA	12/27/23 12:43

Client Sample ID: SB9-5-20231219

Lab Sample ID: 580-135260-2

Date Collected: 12/19/23 14:15

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 75.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			447281	TGO	EET SEA	12/28/23 15:56
Total/NA	Analysis	8260D		1	447295	TL1	EET SEA	12/28/23 18:17
Total/NA	Prep	5035	RA		447472	TGO	EET SEA	12/29/23 18:13
Total/NA	Analysis	8260D	RA	1	447475	K1K	EET SEA	12/29/23 21:37
Total/NA	Prep	5035			447432	TGO	EET SEA	12/29/23 14:31
Total/NA	Analysis	NWTPH-Gx		1	447457	K1K	EET SEA	12/29/23 21:42
Total/NA	Prep	3546			447131	E1W	EET SEA	12/27/23 13:09
Total/NA	Analysis	8270E SIM		1	447637	K1K	EET SEA	01/03/24 16:34
Total/NA	Prep	3546			447278	E1W	EET SEA	12/28/23 14:45
Total/NA	Analysis	NWTPH-Dx		1	447721	KLW	EET SEA	01/04/24 15:52
Total/NA	Prep	3050B			447390	JL	EET SEA	12/29/23 11:16
Total/NA	Analysis	6020B		10	447835	FCW	EET SEA	01/04/24 11:38

Client Sample ID: SB9-10-20231220

Lab Sample ID: 580-135260-3

Date Collected: 12/20/23 14:10

Matrix: Solid

Date Received: 12/22/23 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	447130	TMH	EET SEA	12/27/23 12:43

Client Sample ID: SB9-10-20231220

Lab Sample ID: 580-135260-3

Date Collected: 12/20/23 14:10

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			447281	TGO	EET SEA	12/28/23 15:56
Total/NA	Analysis	8260D		1	447295	TL1	EET SEA	12/28/23 18:36
Total/NA	Prep	5035	RA		447472	TGO	EET SEA	12/29/23 18:13
Total/NA	Analysis	8260D	RA	1	447475	K1K	EET SEA	12/29/23 21:56
Total/NA	Prep	5035			447432	TGO	EET SEA	12/29/23 14:31
Total/NA	Analysis	NWTPH-Gx		1	447457	K1K	EET SEA	12/29/23 22:04
Total/NA	Prep	3546			447131	E1W	EET SEA	12/27/23 13:09
Total/NA	Analysis	8270E SIM		1	447637	K1K	EET SEA	01/03/24 17:48
Total/NA	Prep	3546			447278	E1W	EET SEA	12/28/23 14:45
Total/NA	Analysis	NWTPH-Dx		1	447721	KLW	EET SEA	01/04/24 16:31
Total/NA	Prep	3050B			447390	JL	EET SEA	12/29/23 11:16
Total/NA	Analysis	6020B		10	447835	FCW	EET SEA	01/04/24 11:40

Eurofins Seattle

Lab Chronicle

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Client Sample ID: SB9-15-20231220

Lab Sample ID: 580-135260-4

Date Collected: 12/20/23 14:25

Matrix: Solid

Date Received: 12/22/23 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	447130	TMH	EET SEA	12/27/23 12:43

Client Sample ID: SB9-15-20231220

Lab Sample ID: 580-135260-4

Date Collected: 12/20/23 14:25

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			447281	TGO	EET SEA	12/28/23 15:56
Total/NA	Analysis	8260D		1	447295	TL1	EET SEA	12/28/23 18:55
Total/NA	Prep	5035	RA		447472	TGO	EET SEA	12/29/23 18:13
Total/NA	Analysis	8260D	RA	1	447475	K1K	EET SEA	12/29/23 22:15
Total/NA	Prep	5035			447432	TGO	EET SEA	12/29/23 14:31
Total/NA	Analysis	NWTPH-Gx		1	447457	K1K	EET SEA	12/29/23 22:26
Total/NA	Prep	3546			447131	E1W	EET SEA	12/27/23 13:09
Total/NA	Analysis	8270E SIM		1	447637	K1K	EET SEA	01/03/24 18:12
Total/NA	Prep	3546			447278	E1W	EET SEA	12/28/23 14:45
Total/NA	Analysis	NWTPH-Dx		1	447721	KLW	EET SEA	01/04/24 16:51
Total/NA	Prep	3050B			447390	JL	EET SEA	12/29/23 11:16
Total/NA	Analysis	6020B		10	447835	FCW	EET SEA	01/04/24 11:43

Client Sample ID: SB9-20-20231220

Lab Sample ID: 580-135260-5

Date Collected: 12/20/23 14:58

Matrix: Solid

Date Received: 12/22/23 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	447130	TMH	EET SEA	12/27/23 12:43

Client Sample ID: SB9-20-20231220

Lab Sample ID: 580-135260-5

Date Collected: 12/20/23 14:58

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 87.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			447281	TGO	EET SEA	12/28/23 15:56
Total/NA	Analysis	8260D		1	447295	TL1	EET SEA	12/28/23 19:14
Total/NA	Prep	5035	RA		447472	TGO	EET SEA	12/29/23 18:13
Total/NA	Analysis	8260D	RA	1	447475	K1K	EET SEA	12/29/23 22:35
Total/NA	Prep	5035			447432	TGO	EET SEA	12/29/23 14:31
Total/NA	Analysis	NWTPH-Gx		1	447457	K1K	EET SEA	12/29/23 22:47
Total/NA	Prep	3546			447131	E1W	EET SEA	12/27/23 13:09
Total/NA	Analysis	8270E SIM		1	447637	K1K	EET SEA	01/03/24 18:37
Total/NA	Prep	3546			447278	E1W	EET SEA	12/28/23 14:45
Total/NA	Analysis	NWTPH-Dx		1	447721	KLW	EET SEA	01/04/24 17:10
Total/NA	Prep	3050B			447390	JL	EET SEA	12/29/23 11:16
Total/NA	Analysis	6020B		10	447835	FCW	EET SEA	01/04/24 11:46

Eurofins Seattle

Lab Chronicle

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Client Sample ID: SB9-25-20231220

Lab Sample ID: 580-135260-6

Date Collected: 12/20/23 15:20

Matrix: Solid

Date Received: 12/22/23 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	447130	TMH	EET SEA	12/27/23 12:43

Client Sample ID: SB9-25-20231220

Lab Sample ID: 580-135260-6

Date Collected: 12/20/23 15:20

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			447281	TGO	EET SEA	12/28/23 15:56
Total/NA	Analysis	8260D		1	447295	TL1	EET SEA	12/28/23 19:33
Total/NA	Prep	5035	RA		447472	TGO	EET SEA	12/29/23 18:13
Total/NA	Analysis	8260D	RA	1	447475	K1K	EET SEA	12/29/23 22:54
Total/NA	Prep	5035			447432	TGO	EET SEA	12/29/23 14:31
Total/NA	Analysis	NWTPH-Gx		1	447457	K1K	EET SEA	12/29/23 23:09
Total/NA	Prep	3546			447131	E1W	EET SEA	12/27/23 13:09
Total/NA	Analysis	8270E SIM		1	447637	K1K	EET SEA	01/03/24 19:01
Total/NA	Prep	3546			447278	E1W	EET SEA	12/28/23 14:45
Total/NA	Analysis	NWTPH-Dx		1	447721	KLW	EET SEA	01/04/24 17:30
Total/NA	Prep	3050B			447390	JL	EET SEA	12/29/23 11:16
Total/NA	Analysis	6020B		10	447835	FCW	EET SEA	01/04/24 12:05

Client Sample ID: MW14-5-20231218

Lab Sample ID: 580-135260-7

Date Collected: 12/18/23 12:55

Matrix: Solid

Date Received: 12/22/23 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	447130	TMH	EET SEA	12/27/23 12:44

Client Sample ID: MW14-5-20231218

Lab Sample ID: 580-135260-7

Date Collected: 12/18/23 12:55

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			447281	TGO	EET SEA	12/28/23 15:56
Total/NA	Analysis	8260D		1	447295	TL1	EET SEA	12/28/23 19:52
Total/NA	Prep	5035	RA		447472	TGO	EET SEA	12/29/23 18:13
Total/NA	Analysis	8260D	RA	1	447475	K1K	EET SEA	12/29/23 23:13
Total/NA	Prep	5035			447432	TGO	EET SEA	12/29/23 14:31
Total/NA	Analysis	NWTPH-Gx		1	447457	K1K	EET SEA	12/29/23 23:52
Total/NA	Prep	3546			447131	E1W	EET SEA	12/27/23 13:09
Total/NA	Analysis	8270E SIM		1	447637	K1K	EET SEA	01/03/24 19:26
Total/NA	Prep	3546			447278	E1W	EET SEA	12/28/23 14:45
Total/NA	Analysis	NWTPH-Dx		1	447721	KLW	EET SEA	01/04/24 17:50
Total/NA	Prep	3050B			447390	JL	EET SEA	12/29/23 11:16
Total/NA	Analysis	6020B		10	447835	FCW	EET SEA	01/04/24 12:07

Eurofins Seattle

Lab Chronicle

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Client Sample ID: MW14-10-20231221

Lab Sample ID: 580-135260-8

Date Collected: 12/21/23 09:20

Matrix: Solid

Date Received: 12/22/23 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	447130	TMH	EET SEA	12/27/23 12:44

Client Sample ID: MW14-10-20231221

Lab Sample ID: 580-135260-8

Date Collected: 12/21/23 09:20

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 77.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			447281	TGO	EET SEA	12/28/23 15:56
Total/NA	Analysis	8260D		1	447295	TL1	EET SEA	12/28/23 20:11
Total/NA	Prep	5035	RA		447472	TGO	EET SEA	12/29/23 18:13
Total/NA	Analysis	8260D	RA	1	447475	K1K	EET SEA	12/29/23 23:32
Total/NA	Prep	5035			447432	TGO	EET SEA	12/29/23 14:31
Total/NA	Analysis	NWTPH-Gx		1	447457	K1K	EET SEA	12/30/23 00:14
Total/NA	Prep	3546			447131	E1W	EET SEA	12/27/23 13:09
Total/NA	Analysis	8270E SIM		1	447637	K1K	EET SEA	01/03/24 19:50
Total/NA	Prep	3546			447278	E1W	EET SEA	12/28/23 14:45
Total/NA	Analysis	NWTPH-Dx		1	447721	KLW	EET SEA	01/04/24 18:30
Total/NA	Prep	3050B			447390	JL	EET SEA	01/02/24 09:49
Total/NA	Analysis	6020B		10	447835	FCW	EET SEA	01/04/24 12:10

Client Sample ID: MW14-15-20231221

Lab Sample ID: 580-135260-9

Date Collected: 12/21/23 09:30

Matrix: Solid

Date Received: 12/22/23 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	447130	TMH	EET SEA	12/27/23 12:44

Client Sample ID: MW14-15-20231221

Lab Sample ID: 580-135260-9

Date Collected: 12/21/23 09:30

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 80.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			447281	TGO	EET SEA	12/28/23 15:56
Total/NA	Analysis	8260D		1	447295	TL1	EET SEA	12/28/23 20:31
Total/NA	Prep	5035	RA		447472	TGO	EET SEA	12/29/23 18:13
Total/NA	Analysis	8260D	RA	1	447475	K1K	EET SEA	12/29/23 23:51
Total/NA	Prep	5035			447432	TGO	EET SEA	12/29/23 14:31
Total/NA	Analysis	NWTPH-Gx		1	447457	K1K	EET SEA	12/30/23 00:36
Total/NA	Prep	3546			447131	E1W	EET SEA	12/27/23 13:09
Total/NA	Analysis	8270E SIM		1	447637	K1K	EET SEA	01/03/24 20:15
Total/NA	Prep	3546			447278	E1W	EET SEA	12/28/23 14:45
Total/NA	Analysis	NWTPH-Dx		1	447721	KLW	EET SEA	01/04/24 18:50
Total/NA	Prep	3050B			447390	JL	EET SEA	01/02/24 09:49
Total/NA	Analysis	6020B		10	447835	FCW	EET SEA	01/04/24 12:13

Eurofins Seattle

Lab Chronicle

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Client Sample ID: MW14-17.5-20231221

Lab Sample ID: 580-135260-10

Date Collected: 12/21/23 09:35

Matrix: Solid

Date Received: 12/22/23 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	447130	TMH	EET SEA	12/27/23 12:44

Client Sample ID: MW14-17.5-20231221

Lab Sample ID: 580-135260-10

Date Collected: 12/21/23 09:35

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 86.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			447281	TGO	EET SEA	12/28/23 15:56
Total/NA	Analysis	8260D		1	447295	TL1	EET SEA	12/28/23 20:50
Total/NA	Prep	5035	RA		447472	TGO	EET SEA	12/29/23 18:13
Total/NA	Analysis	8260D	RA	1	447475	K1K	EET SEA	12/30/23 00:11
Total/NA	Prep	5035			447279	TGO	EET SEA	12/28/23 16:36
Total/NA	Analysis	8260D		1	447314	TGO	EET SEA	12/29/23 04:41
Total/NA	Prep	5035			447432	TGO	EET SEA	12/29/23 14:31
Total/NA	Analysis	NWTPH-Gx		1	447457	K1K	EET SEA	12/30/23 00:57
Total/NA	Prep	3546			447131	E1W	EET SEA	12/27/23 13:09
Total/NA	Analysis	8270E SIM		1	447637	K1K	EET SEA	01/03/24 20:40
Total/NA	Prep	3546			447283	TOA	EET SEA	12/28/23 15:32
Total/NA	Analysis	NWTPH-Dx		1	447448	KLW	EET SEA	12/29/23 21:39
Total/NA	Prep	3050B			447390	JL	EET SEA	01/02/24 09:49
Total/NA	Analysis	6020B		10	447835	FCW	EET SEA	01/04/24 12:16

Client Sample ID: MW14-20-20231221

Lab Sample ID: 580-135260-11

Date Collected: 12/21/23 09:40

Matrix: Solid

Date Received: 12/22/23 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	447130	TMH	EET SEA	12/27/23 12:44

Client Sample ID: MW14-20-20231221

Lab Sample ID: 580-135260-11

Date Collected: 12/21/23 09:40

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 87.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			447281	TGO	EET SEA	12/28/23 15:56
Total/NA	Analysis	8260D		1	447295	TL1	EET SEA	12/28/23 21:09
Total/NA	Prep	5035	RA		447472	TGO	EET SEA	12/29/23 18:13
Total/NA	Analysis	8260D	RA	1	447475	K1K	EET SEA	12/30/23 00:30
Total/NA	Prep	5035			447432	TGO	EET SEA	12/29/23 14:31
Total/NA	Analysis	NWTPH-Gx		1	447457	K1K	EET SEA	12/30/23 01:19
Total/NA	Prep	3546			447131	E1W	EET SEA	12/27/23 13:09
Total/NA	Analysis	8270E SIM		1	447637	K1K	EET SEA	01/03/24 21:04
Total/NA	Prep	3546			447283	TOA	EET SEA	12/28/23 15:32
Total/NA	Analysis	NWTPH-Dx		1	447448	KLW	EET SEA	12/29/23 21:59

Eurofins Seattle

Lab Chronicle

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Client Sample ID: MW14-20-20231221

Lab Sample ID: 580-135260-11

Date Collected: 12/21/23 09:40

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 87.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			447390	JL	EET SEA	01/02/24 09:49
Total/NA	Analysis	6020B		10	447835	FCW	EET SEA	01/04/24 12:18

Client Sample ID: MW14-30-20231221

Lab Sample ID: 580-135260-13

Date Collected: 12/21/23 10:17

Matrix: Solid

Date Received: 12/22/23 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	447130	TMH	EET SEA	12/27/23 12:44

Client Sample ID: MW14-30-20231221

Lab Sample ID: 580-135260-13

Date Collected: 12/21/23 10:17

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 79.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			447281	TGO	EET SEA	12/28/23 15:56
Total/NA	Analysis	8260D		1	447295	TL1	EET SEA	12/28/23 21:29
Total/NA	Prep	5035	RA		447472	TGO	EET SEA	12/29/23 18:13
Total/NA	Analysis	8260D	RA	1	447475	K1K	EET SEA	12/30/23 00:49
Total/NA	Prep	5035			447432	TGO	EET SEA	12/29/23 14:31
Total/NA	Analysis	NWTPH-Gx		1	447457	K1K	EET SEA	12/30/23 01:40
Total/NA	Prep	3546			447131	E1W	EET SEA	12/27/23 13:09
Total/NA	Analysis	8270E SIM		1	447637	K1K	EET SEA	01/03/24 21:29
Total/NA	Prep	3546			447283	TOA	EET SEA	12/28/23 15:32
Total/NA	Analysis	NWTPH-Dx		1	447448	KLW	EET SEA	12/29/23 22:19
Total/NA	Prep	3050B			447390	JL	EET SEA	01/02/24 09:49
Total/NA	Analysis	6020B		10	447835	FCW	EET SEA	01/04/24 12:21

Client Sample ID: MW15-5-20231219

Lab Sample ID: 580-135260-14

Date Collected: 12/19/23 10:20

Matrix: Solid

Date Received: 12/22/23 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	447130	TMH	EET SEA	12/27/23 12:44

Client Sample ID: MW15-5-20231219

Lab Sample ID: 580-135260-14

Date Collected: 12/19/23 10:20

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 79.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			447281	TGO	EET SEA	12/28/23 15:56
Total/NA	Analysis	8260D		1	447295	TL1	EET SEA	12/28/23 21:48
Total/NA	Prep	5035	RA		447472	TGO	EET SEA	12/29/23 18:13
Total/NA	Analysis	8260D	RA	1	447475	K1K	EET SEA	12/30/23 01:09
Total/NA	Prep	5035			447279	TGO	EET SEA	12/28/23 16:36
Total/NA	Analysis	NWTPH-Gx		1	447311	TGO	EET SEA	12/29/23 05:46

Eurofins Seattle

Lab Chronicle

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Client Sample ID: MW15-5-20231219

Lab Sample ID: 580-135260-14

Date Collected: 12/19/23 10:20

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 79.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			447623	JBT	EET SEA	01/03/24 11:16
Total/NA	Analysis	NWTPH-Gx		1	447688	K1K	EET SEA	01/03/24 22:15
Total/NA	Prep	3546			447131	E1W	EET SEA	12/27/23 13:09
Total/NA	Analysis	8270E SIM		1	447637	K1K	EET SEA	01/03/24 21:53
Total/NA	Prep	3546			447283	TOA	EET SEA	12/28/23 15:32
Total/NA	Analysis	NWTPH-Dx		1	447451	KLW	EET SEA	12/29/23 21:39
Total/NA	Prep	3050B			447518	JL	EET SEA	01/02/24 09:52
Total/NA	Analysis	6020B		10	447950	FCW	EET SEA	01/05/24 14:54

Client Sample ID: MW15-10-20231220

Lab Sample ID: 580-135260-15

Date Collected: 12/20/23 09:55

Matrix: Solid

Date Received: 12/22/23 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	447130	TMH	EET SEA	12/27/23 12:44

Client Sample ID: MW15-10-20231220

Lab Sample ID: 580-135260-15

Date Collected: 12/20/23 09:55

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 80.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			447281	TGO	EET SEA	12/28/23 15:56
Total/NA	Analysis	8260D		1	447295	TL1	EET SEA	12/28/23 22:07
Total/NA	Prep	5035	RA		447472	TGO	EET SEA	12/29/23 18:13
Total/NA	Analysis	8260D	RA	1	447475	K1K	EET SEA	12/30/23 01:28
Total/NA	Prep	5035			447623	JBT	EET SEA	01/03/24 11:16
Total/NA	Analysis	NWTPH-Gx		1	447688	K1K	EET SEA	01/03/24 22:37
Total/NA	Prep	3546			447131	E1W	EET SEA	12/27/23 13:09
Total/NA	Analysis	8270E SIM		1	447637	K1K	EET SEA	01/03/24 22:18
Total/NA	Prep	3546			447283	TOA	EET SEA	12/28/23 15:32
Total/NA	Analysis	NWTPH-Dx		1	447451	KLW	EET SEA	12/29/23 22:39
Total/NA	Prep	3050B			447518	JL	EET SEA	01/02/24 09:52
Total/NA	Analysis	6020B		10	447950	FCW	EET SEA	01/05/24 15:34

Client Sample ID: MW15-10-20231220

Lab Sample ID: 580-135260-16

Date Collected: 12/20/23 10:10

Matrix: Solid

Date Received: 12/22/23 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	447130	TMH	EET SEA	12/27/23 12:44

Eurofins Seattle

Lab Chronicle

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Client Sample ID: MW15-10-20231220

Lab Sample ID: 580-135260-16

Date Collected: 12/20/23 10:10

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			447281	TGO	EET SEA	12/28/23 15:56
Total/NA	Analysis	8260D		1	447295	TL1	EET SEA	12/28/23 22:26
Total/NA	Prep	5035	RA		447472	TGO	EET SEA	12/29/23 18:13
Total/NA	Analysis	8260D	RA	1	447475	K1K	EET SEA	12/30/23 01:47
Total/NA	Prep	5035			447279	TGO	EET SEA	12/28/23 16:36
Total/NA	Analysis	NWTPH-Gx		1	447311	TGO	EET SEA	12/29/23 06:29
Total/NA	Prep	5035			447623	JBT	EET SEA	01/03/24 11:16
Total/NA	Analysis	NWTPH-Gx		1	447688	K1K	EET SEA	01/04/24 00:25
Total/NA	Prep	3546			447131	E1W	EET SEA	12/27/23 13:09
Total/NA	Analysis	8270E SIM		1	447637	K1K	EET SEA	01/03/24 22:42
Total/NA	Prep	3546			447283	TOA	EET SEA	12/28/23 15:32
Total/NA	Analysis	NWTPH-Dx		1	447451	KLW	EET SEA	12/29/23 23:00
Total/NA	Prep	3050B			447518	JL	EET SEA	01/02/24 09:52
Total/NA	Analysis	6020B		10	447950	FCW	EET SEA	01/05/24 15:37

Client Sample ID: MW15-20-20231220

Lab Sample ID: 580-135260-17

Date Collected: 12/20/23 10:30

Matrix: Solid

Date Received: 12/22/23 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	447130	TMH	EET SEA	12/27/23 12:44

Client Sample ID: MW15-20-20231220

Lab Sample ID: 580-135260-17

Date Collected: 12/20/23 10:30

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			447281	TGO	EET SEA	12/28/23 15:56
Total/NA	Analysis	8260D		1	447295	TL1	EET SEA	12/28/23 22:46
Total/NA	Prep	5035	RA		447472	TGO	EET SEA	12/29/23 18:13
Total/NA	Analysis	8260D	RA	1	447475	K1K	EET SEA	12/30/23 02:07
Total/NA	Prep	5035			447623	JBT	EET SEA	01/03/24 11:16
Total/NA	Analysis	NWTPH-Gx		1	447688	K1K	EET SEA	01/03/24 22:58
Total/NA	Prep	3546			447131	E1W	EET SEA	12/27/23 13:09
Total/NA	Analysis	8270E SIM		1	447637	K1K	EET SEA	01/03/24 23:07
Total/NA	Prep	3546			447283	TOA	EET SEA	12/28/23 15:32
Total/NA	Analysis	NWTPH-Dx		1	447451	KLW	EET SEA	12/29/23 23:20
Total/NA	Prep	3050B			447518	JL	EET SEA	01/02/24 09:52
Total/NA	Analysis	6020B		10	447950	FCW	EET SEA	01/05/24 15:40

Lab Chronicle

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Client Sample ID: MW15-25-20231220

Lab Sample ID: 580-135260-18

Date Collected: 12/20/23 11:00

Matrix: Solid

Date Received: 12/22/23 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	447130	TMH	EET SEA	12/27/23 12:44

Client Sample ID: MW15-25-20231220

Lab Sample ID: 580-135260-18

Date Collected: 12/20/23 11:00

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 82.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			447281	TGO	EET SEA	12/28/23 15:56
Total/NA	Analysis	8260D		1	447295	TL1	EET SEA	12/28/23 23:05
Total/NA	Prep	5035	RA		447472	TGO	EET SEA	12/29/23 18:13
Total/NA	Analysis	8260D	RA	1	447475	K1K	EET SEA	12/30/23 02:26
Total/NA	Prep	5035			447623	JBT	EET SEA	01/03/24 11:16
Total/NA	Analysis	NWTPH-Gx		1	447688	K1K	EET SEA	01/03/24 23:20
Total/NA	Prep	3546			447131	E1W	EET SEA	12/27/23 13:09
Total/NA	Analysis	8270E SIM		1	447637	K1K	EET SEA	01/03/24 23:31
Total/NA	Prep	3546			447283	TOA	EET SEA	12/28/23 15:32
Total/NA	Analysis	NWTPH-Dx		1	447451	KLW	EET SEA	12/29/23 23:40
Total/NA	Prep	3050B			447518	JL	EET SEA	01/02/24 09:52
Total/NA	Analysis	6020B		10	447950	FCW	EET SEA	01/05/24 15:42

Client Sample ID: MW15-30-20231220

Lab Sample ID: 580-135260-19

Date Collected: 12/20/23 11:40

Matrix: Solid

Date Received: 12/22/23 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	447130	TMH	EET SEA	12/27/23 12:44

Client Sample ID: MW15-30-20231220

Lab Sample ID: 580-135260-19

Date Collected: 12/20/23 11:40

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 86.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			447281	TGO	EET SEA	12/28/23 15:56
Total/NA	Analysis	8260D		1	447295	TL1	EET SEA	12/28/23 23:24
Total/NA	Prep	5035	RA		447472	TGO	EET SEA	12/29/23 18:13
Total/NA	Analysis	8260D	RA	1	447475	K1K	EET SEA	12/30/23 02:45
Total/NA	Prep	5035			447623	JBT	EET SEA	01/03/24 11:16
Total/NA	Analysis	NWTPH-Gx		1	447688	K1K	EET SEA	01/03/24 23:42
Total/NA	Prep	3546			447131	E1W	EET SEA	12/27/23 13:09
Total/NA	Analysis	8270E SIM		1	447637	K1K	EET SEA	01/03/24 23:55
Total/NA	Prep	3546			447283	TOA	EET SEA	12/28/23 15:32
Total/NA	Analysis	NWTPH-Dx		1	447451	KLW	EET SEA	12/30/23 00:00
Total/NA	Prep	3050B			447518	JL	EET SEA	01/02/24 09:52
Total/NA	Analysis	6020B		10	447950	FCW	EET SEA	01/05/24 15:45

Eurofins Seattle

Lab Chronicle

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Client Sample ID: MW15-35-20231220

Lab Sample ID: 580-135260-20

Date Collected: 12/20/23 12:20

Matrix: Solid

Date Received: 12/22/23 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	447130	TMH	EET SEA	12/27/23 12:44

Client Sample ID: MW15-35-20231220

Lab Sample ID: 580-135260-20

Date Collected: 12/20/23 12:20

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			447281	TGO	EET SEA	12/28/23 15:56
Total/NA	Analysis	8260D		1	447295	TL1	EET SEA	12/28/23 23:43
Total/NA	Prep	5035	RA		447472	TGO	EET SEA	12/29/23 18:13
Total/NA	Analysis	8260D	RA	1	447475	K1K	EET SEA	12/30/23 03:04
Total/NA	Prep	5035			447279	TGO	EET SEA	12/28/23 16:36
Total/NA	Analysis	NWTPH-Gx		1	447311	TGO	EET SEA	12/29/23 08:17
Total/NA	Prep	5035			447623	JBT	EET SEA	01/03/24 11:16
Total/NA	Analysis	NWTPH-Gx		1	447688	K1K	EET SEA	01/04/24 00:03
Total/NA	Prep	3546			447131	E1W	EET SEA	12/27/23 13:09
Total/NA	Analysis	8270E SIM		1	447637	K1K	EET SEA	01/04/24 00:20
Total/NA	Prep	3546			447283	TOA	EET SEA	12/28/23 15:32
Total/NA	Analysis	NWTPH-Dx		1	447448	KLW	EET SEA	12/29/23 21:18
Total/NA	Prep	3050B			447518	JL	EET SEA	01/02/24 09:52
Total/NA	Analysis	6020B		10	447950	FCW	EET SEA	01/05/24 15:48

Client Sample ID: MW16-5-20231219

Lab Sample ID: 580-135260-21

Date Collected: 12/19/23 12:20

Matrix: Solid

Date Received: 12/22/23 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	447130	TMH	EET SEA	12/27/23 12:44

Client Sample ID: MW16-5-20231219

Lab Sample ID: 580-135260-21

Date Collected: 12/19/23 12:20

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 78.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			447281	TGO	EET SEA	12/28/23 15:56
Total/NA	Analysis	8260D		1	447295	TL1	EET SEA	12/29/23 00:03
Total/NA	Prep	5035	RA		447472	TGO	EET SEA	12/29/23 18:13
Total/NA	Analysis	8260D	RA	1	447475	K1K	EET SEA	12/30/23 03:23
Total/NA	Prep	5035			447432	TGO	EET SEA	12/29/23 16:31
Total/NA	Analysis	NWTPH-Gx		1	447457	K1K	EET SEA	12/29/23 18:07
Total/NA	Prep	3546			447131	E1W	EET SEA	12/27/23 13:09
Total/NA	Analysis	8270E SIM		1	447637	K1K	EET SEA	01/04/24 00:44
Total/NA	Prep	3546			447283	TOA	EET SEA	12/28/23 15:32
Total/NA	Analysis	NWTPH-Dx		1	447451	KLW	EET SEA	12/29/23 22:19

Eurofins Seattle

Lab Chronicle

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Client Sample ID: MW16-5-20231219

Lab Sample ID: 580-135260-21

Date Collected: 12/19/23 12:20

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 78.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			447518	JL	EET SEA	01/02/24 09:52
Total/NA	Analysis	6020B		10	447950	FCW	EET SEA	01/05/24 15:50

Client Sample ID: MW16-10-20231219

Lab Sample ID: 580-135260-22

Date Collected: 12/22/23 08:50

Matrix: Solid

Date Received: 12/22/23 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	447130	TMH	EET SEA	12/27/23 12:44

Client Sample ID: MW16-10-20231219

Lab Sample ID: 580-135260-22

Date Collected: 12/22/23 08:50

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 73.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			447281	TGO	EET SEA	12/28/23 15:56
Total/NA	Analysis	8260D		1	447295	TL1	EET SEA	12/29/23 00:22
Total/NA	Prep	5035	RA		447472	TGO	EET SEA	12/29/23 18:13
Total/NA	Analysis	8260D	RA	1	447475	K1K	EET SEA	12/30/23 03:42
Total/NA	Prep	5035			447432	TGO	EET SEA	12/29/23 16:31
Total/NA	Analysis	NWTPH-Gx		1	447457	K1K	EET SEA	12/29/23 18:29
Total/NA	Prep	3546			447218	TOA	EET SEA	12/28/23 09:37
Total/NA	Analysis	8270E SIM		1	447393	K1K	EET SEA	12/29/23 19:50
Total/NA	Prep	3546	RE		448068	TOA	EET SEA	01/09/24 10:09
Total/NA	Analysis	8270E SIM	RE	1	448323	T1L	EET SEA	01/10/24 20:29
Total/NA	Prep	3546			447283	TOA	EET SEA	12/28/23 15:32
Total/NA	Analysis	NWTPH-Dx		1	447448	KLW	EET SEA	12/29/23 22:39
Total/NA	Prep	3050B			447518	JL	EET SEA	01/02/24 09:52
Total/NA	Analysis	6020B		10	447950	FCW	EET SEA	01/05/24 15:53

Client Sample ID: MW16-15-20231219

Lab Sample ID: 580-135260-23

Date Collected: 12/22/23 09:05

Matrix: Solid

Date Received: 12/22/23 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	447130	TMH	EET SEA	12/27/23 12:44

Client Sample ID: MW16-15-20231219

Lab Sample ID: 580-135260-23

Date Collected: 12/22/23 09:05

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 81.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			447406	TGO	EET SEA	12/29/23 13:12
Total/NA	Analysis	8260D		1	447410	K1K	EET SEA	12/29/23 15:53
Total/NA	Prep	5035			447432	TGO	EET SEA	12/29/23 16:31
Total/NA	Analysis	NWTPH-Gx		1	447457	K1K	EET SEA	12/29/23 18:50

Eurofins Seattle

Lab Chronicle

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Client Sample ID: MW16-15-20231219

Lab Sample ID: 580-135260-23

Date Collected: 12/22/23 09:05

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 81.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			447218	TOA	EET SEA	12/28/23 09:37
Total/NA	Analysis	8270E SIM		1	447393	K1K	EET SEA	12/29/23 20:14
Total/NA	Prep	3546	RE		448068	TOA	EET SEA	01/09/24 10:09
Total/NA	Analysis	8270E SIM	RE	1	448323	T1L	EET SEA	01/10/24 21:42
Total/NA	Prep	3546			447283	TOA	EET SEA	12/28/23 15:32
Total/NA	Analysis	NWTPH-Dx		1	447448	KLW	EET SEA	12/29/23 23:00
Total/NA	Prep	3050B			447518	JL	EET SEA	01/02/24 09:52
Total/NA	Analysis	6020B		10	447950	FCW	EET SEA	01/05/24 15:56

Client Sample ID: MW16-20-20231219

Lab Sample ID: 580-135260-24

Date Collected: 12/22/23 09:30

Matrix: Solid

Date Received: 12/22/23 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	447130	TMH	EET SEA	12/27/23 12:44

Client Sample ID: MW16-20-20231219

Lab Sample ID: 580-135260-24

Date Collected: 12/22/23 09:30

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 82.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			447406	TGO	EET SEA	12/29/23 13:12
Total/NA	Analysis	8260D		1	447410	K1K	EET SEA	12/29/23 16:12
Total/NA	Prep	5035			447432	TGO	EET SEA	12/29/23 16:31
Total/NA	Analysis	NWTPH-Gx		1	447457	K1K	EET SEA	12/29/23 19:11
Total/NA	Prep	3546			447218	TOA	EET SEA	12/28/23 09:37
Total/NA	Analysis	8270E SIM		1	447393	K1K	EET SEA	12/29/23 20:40
Total/NA	Prep	3546	RE		448068	TOA	EET SEA	01/09/24 10:09
Total/NA	Analysis	8270E SIM	RE	1	448323	T1L	EET SEA	01/10/24 22:06
Total/NA	Prep	3546			447283	TOA	EET SEA	12/28/23 15:32
Total/NA	Analysis	NWTPH-Dx		1	447448	KLW	EET SEA	12/29/23 23:20
Total/NA	Prep	3050B			447518	JL	EET SEA	01/02/24 09:52
Total/NA	Analysis	6020B		10	447950	FCW	EET SEA	01/05/24 15:58

Client Sample ID: MW16-25-20231219

Lab Sample ID: 580-135260-25

Date Collected: 12/22/23 09:50

Matrix: Solid

Date Received: 12/22/23 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	447130	TMH	EET SEA	12/27/23 12:44

Eurofins Seattle

Lab Chronicle

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Client Sample ID: MW16-25-20231219

Lab Sample ID: 580-135260-25

Date Collected: 12/22/23 09:50

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 79.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			447406	TGO	EET SEA	12/29/23 13:12
Total/NA	Analysis	8260D		1	447410	K1K	EET SEA	12/29/23 16:31
Total/NA	Prep	5035			447432	TGO	EET SEA	12/29/23 16:31
Total/NA	Analysis	NWTPH-Gx		1	447457	K1K	EET SEA	12/29/23 19:54
Total/NA	Prep	3546			447218	TOA	EET SEA	12/28/23 09:37
Total/NA	Analysis	8270E SIM		1	447393	K1K	EET SEA	12/29/23 21:05
Total/NA	Prep	3546	RE		448068	TOA	EET SEA	01/09/24 10:09
Total/NA	Analysis	8270E SIM	RE	1	448323	T1L	EET SEA	01/10/24 22:30
Total/NA	Prep	3546			447283	TOA	EET SEA	12/28/23 15:32
Total/NA	Analysis	NWTPH-Dx		1	447448	KLW	EET SEA	12/29/23 23:40
Total/NA	Prep	3050B			447518	JL	EET SEA	01/02/24 09:52
Total/NA	Analysis	6020B		10	447950	FCW	EET SEA	01/05/24 16:17

Client Sample ID: MW16-30-20231219

Lab Sample ID: 580-135260-26

Date Collected: 12/22/23 10:10

Matrix: Solid

Date Received: 12/22/23 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	447130	TMH	EET SEA	12/27/23 12:44

Client Sample ID: MW16-30-20231219

Lab Sample ID: 580-135260-26

Date Collected: 12/22/23 10:10

Matrix: Solid

Date Received: 12/22/23 16:00

Percent Solids: 73.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			447406	TGO	EET SEA	12/29/23 13:12
Total/NA	Analysis	8260D		1	447410	K1K	EET SEA	12/29/23 16:50
Total/NA	Prep	5035			447432	TGO	EET SEA	12/29/23 16:31
Total/NA	Analysis	NWTPH-Gx		1	447457	K1K	EET SEA	12/29/23 20:16
Total/NA	Prep	3546			447218	TOA	EET SEA	12/28/23 09:37
Total/NA	Analysis	8270E SIM		1	447393	K1K	EET SEA	12/29/23 21:30
Total/NA	Prep	3546	RE		448068	TOA	EET SEA	01/09/24 10:09
Total/NA	Analysis	8270E SIM	RE	1	448323	T1L	EET SEA	01/10/24 22:54
Total/NA	Prep	3546			447762	TOA	EET SEA	01/04/24 12:37
Total/NA	Analysis	NWTPH-Dx		1	447971	KLW	EET SEA	01/09/24 02:30
Total/NA	Prep	3050B			447518	JL	EET SEA	01/02/24 09:52
Total/NA	Analysis	6020B		10	447950	FCW	EET SEA	01/05/24 16:20

Laboratory References:

EET SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Eurofins Seattle

Accreditation/Certification Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Laboratory: Eurofins Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids

Method Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SEA
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC/MS)	NWTPH	EET SEA
8270E SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	EET SEA
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	EET SEA
6020B	Metals (ICP/MS)	SW846	EET SEA
2540G	SM 2540G	SM22	EET SEA
3050B	Preparation, Metals	SW846	EET SEA
3546	Microwave Extraction	SW846	EET SEA
5035	Closed System Purge and Trap	SW846	EET SEA

Protocol References:

NWTPH = Northwest Total Petroleum Hydrocarbon

SM22 = Standard Methods For The Examination Of Water And Wastewater, 22nd Edition

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-135260-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-135260-2	SB9-5-20231219	Solid	12/19/23 14:15	12/22/23 16:00
580-135260-3	SB9-10-20231220	Solid	12/20/23 14:10	12/22/23 16:00
580-135260-4	SB9-15-20231220	Solid	12/20/23 14:25	12/22/23 16:00
580-135260-5	SB9-20-20231220	Solid	12/20/23 14:58	12/22/23 16:00
580-135260-6	SB9-25-20231220	Solid	12/20/23 15:20	12/22/23 16:00
580-135260-7	MW14-5-20231218	Solid	12/18/23 12:55	12/22/23 16:00
580-135260-8	MW14-10-20231221	Solid	12/21/23 09:20	12/22/23 16:00
580-135260-9	MW14-15-20231221	Solid	12/21/23 09:30	12/22/23 16:00
580-135260-10	MW14-17.5-20231221	Solid	12/21/23 09:35	12/22/23 16:00
580-135260-11	MW14-20-20231221	Solid	12/21/23 09:40	12/22/23 16:00
580-135260-13	MW14-30-20231221	Solid	12/21/23 10:17	12/22/23 16:00
580-135260-14	MW15-5-20231219	Solid	12/19/23 10:20	12/22/23 16:00
580-135260-15	MW15-10-20231220	Solid	12/20/23 09:55	12/22/23 16:00
580-135260-16	MW15-10-20231220	Solid	12/20/23 10:10	12/22/23 16:00
580-135260-17	MW15-20-20231220	Solid	12/20/23 10:30	12/22/23 16:00
580-135260-18	MW15-25-20231220	Solid	12/20/23 11:00	12/22/23 16:00
580-135260-19	MW15-30-20231220	Solid	12/20/23 11:40	12/22/23 16:00
580-135260-20	MW15-35-20231220	Solid	12/20/23 12:20	12/22/23 16:00
580-135260-21	MW16-5-20231219	Solid	12/19/23 12:20	12/22/23 16:00
580-135260-22	MW16-10-20231219	Solid	12/22/23 08:50	12/22/23 16:00
580-135260-23	MW16-15-20231219	Solid	12/22/23 09:05	12/22/23 16:00
580-135260-24	MW16-20-20231219	Solid	12/22/23 09:30	12/22/23 16:00
580-135260-25	MW16-25-20231219	Solid	12/22/23 09:50	12/22/23 16:00
580-135260-26	MW16-30-20231219	Solid	12/22/23 10:10	12/22/23 16:00



Laboratory Management Program (LaMP) Chain of Custody Record
Soil, Sediment and Groundwater Samples

Page 1 of 4

BP Site Node Path:

Req Due Date (mm/dd/yy):

Rush TAT Yes

No ☒

BP/RM Facility No:

11060

Lab Work Order Number:

Lab Name: Eurofins TA	BP/ARC Facility Address: 4580 Franklin Way SW	Consultant/Contractor: Antea Group
Lab Address: 5755 8th Street East, Tacoma, WA	City, State, ZIP Code: Seattle, WA 98126	Consultant/Contractor Project No: WA 11060
Lab PM: Katie Grant	Lead Regulatory Agency: -	Address: 18378-B Redmond Way, Redmond, WA 98052
Lab Phone: 253-922-2310	California Global ID No.: -	Consultant/Contractor PM: Lonnie Dent
Lab Shipping Acct: -	Enfos Proposal No: OOC87-0002/WR1027162	Phone: 303-807-3627 Email: lonnie.dent@anteagroup.us
Lab Bottle Order No: -	Accounting Mode: Provision 10 OOC-BU OOC-RM	Send/Submit EDD to: Lonnie Dent
Other Info: -	Stage 70: Commercial Site Activity 116: Contracts Management	Invoice To: BP-RM ☒ BP-Other

BP/RM PM: Wade Melton				Sample Details										Requested Analyses										Report Type & QC Level			
PM Phone: -																								Limited (Standard) Package			
PM Email: -																								Limited Plus Package			
																								Full Package			
Lab No.	Sample Description	Date	Time	Field Matrix	Start Depth	End Depth	Depth Unit	Grab (G) or Composite (C)	Total Number of Containers	Analysis	Pres	Filt											Comments				
										NWTPH-6x																	
										NWTPH-Dx (on 12/18/23)																	
										BTEX EPA 8260																	
										MTBE EPA 8260																	
										Naphthalenes EPA 8260																	
										Total Lead EPA 6020																	
	SB9-5-20231218	12/18/23	1600	S			5'	G	4															Discard			
	SB9-5-20231219	12/19/23	1415	S			5'	G	4		X	X	X	X	X	X											
	SB9-10-20231220	12/20/23	1410	S			10'	G	4		X	X	X	X	X	X											
	SB9-15-20231220	12/20/23	1425	S			15'	G	4		X	X	X	X	X	X											
	SB9-20-20231220	12/20/23	1458	S			20'	G	4		X	X	X	X	X	X											
	SB9-25-20231220	12/20/23	1520	S			25'	G	4		X	X	X	X	X	X											
	MW14-5-20231218	12/18/23	1255	S			5'	G	4		X	X	X	X	X	X											



580-135260 Chain of Custody

Sampler's Name: Arthur Clouss	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: Antea Group	Arthur Clouss / Antea Group	12/22/23	1600	EETN	12/22/23	1600
Ship Method: Courier	Ship Date: 12/22/23					
Shipment Tracking No: -						

Special Instructions:

THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

Proprietary and Confidential
Property of BP and its Affiliates

IR11 5.6/5.8
MR/ICW/Buo/client drop.



Laboratory Management Program (LaMP) Chain of Custody Record
Soil, Sediment and Groundwater Samples

Page 2 of 4

BP Site Node Path:

Req Due Date (mm/dd/yy):

Rush TAT Yes

No

BP/RM Facility No:

11060

Lab Work Order Number:

Lab Name: Eurofins TA	BP/ARC Facility Address: 4580 Fremont Way SW	Consultant/Contractor: Anka Group
Lab Address: 5755 8th St, East, Tacoma, WA	City, State, ZIP Code: Seattle, WA 98126	Consultant/Contractor Project No: WA 11060
Lab PM: Katia Grant	Lead Regulatory Agency:	Address: 18378-B Redmond Way, Redmond, WA 98052
Lab Phone: 253-922-2310	California Global ID No.:	Consultant/Contractor PM: Lonnie Dent
Lab Shipping Acct:	Enfos Proposal No: 00087-0002/WR1027162	Phone: Email:
Lab Bottle Order No:	Accounting Mode: Provision 10 OOC-BU OOC-RM	Send/Submit EDD to: Lonnie Dent
Other Info:	Stage 70: Commercial Activity 116: Contracts Manager	Invoice To: BP-RM BP-Other

BP/RM PM: Wade Melton				Sample Details		Requested Analyses												Report Type & QC Level												
PM Phone:																		Limited (Standard) Package												
PM Email:																		Limited Plus Package												
																		Full Package												
Lab No.	Sample Description	Date	Time	Field Matrix	Start Depth	End Depth	Depth Unit	Grab (G) or Composite (C)	Total Number of Containers	Analysis	NWPH-G*	NWPH-D*	BTEX EPA 8260	MTBE EPA 8260	Naphthalenes EPA 8260	Total Lead EPA 6020	Hold	Comments												
	MW14-10-20231221	12/21/23	0920	S			10'	G	4		X	X	X	X	X	X														
	MW14-15-20231221	12/21/23	0930	S			15'	G	4		X	X	X	X	X	X														
	MW14-17.5-20231221	12/21/23	0935	S			17.5'	G	4		X	X	X	X	X	X														
	MW14-20-20231221	12/21/23	0940	S			20'	G	4		X	X	X	X	X	X														
	MW14-25-20231221	12/21/23	1000	S			25'	G	4								X													
	MW14-30-20231221	12/21/23	1017	S			30'	G	4		X	X	X	X	X	X														
	MW15-5-20231219	12/19/23	0020	S			5'	G	4		X	X	X	X	X	X														
Sampler's Name:				Relinquished By / Affiliation						Date		Time		Accepted By / Affiliation						Date		Time								
Sampler's Company:				[Signature]						12/22/23		1600		[Signature]						12/22/23		1600								
Ship Method:				Ship Date:																										
Shipment Tracking No:																														

Special Instructions:

THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No



Laboratory Management Program (LaMP) Chain of Custody Record
Soil, Sediment and Groundwater Samples

BP Site Node Path: _____ Req Due Date (mm/dd/yy): _____ Rush TAT Yes _____ No X
BP/RM Facility No: 11060 Lab Work Order Number: _____

Lab Name: <u>Eurding TA</u>	BP/ARC Facility Address: <u>4580 Fauntleroy Way SW</u>	Consultant/Contractor: <u>Antra Group</u>
Lab Address: <u>5755 8th St. East, Tacoma, WA</u>	City, State, ZIP Code: <u>Seattle, WA 98126</u>	Consultant/Contractor Project No: <u>WA 11060</u>
Lab PM: <u>Katie Grant</u>	Lead Regulatory Agency: <u>—</u>	Address: <u>18378-B Redmond Way, Redmond, WA 98052</u>
Lab Phone: <u>253-922-2310</u>	California Global ID No.: <u>—</u>	Consultant/Contractor PM: <u>Lonnie Dent</u>
Lab Shipping Acct: <u>—</u>	Enfos Proposal No: <u>00687-0002/WR1027162</u>	Phone: <u>"</u> Email: <u>"</u>
Lab Bottle Order No: <u>—</u>	Accounting Mode: Provision <u>10</u> OOC-BU <u>—</u> OOC-RM <u>—</u>	Send/Submit EDD to: <u>Lonnie Dent</u>
Other Info: <u>—</u>	Stage <u>70: Commercial SM Activity</u> <u>116: Contracts Mgmt</u>	Invoice To: <u>BP-RM</u> <u>X</u> BP-Other <u>—</u>

BP/RM PM: Wade Melton				Sample Details				Requested Analyses														Report Type & QC Level																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
																						Limited (Standard) Package ____																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
PM Phone: _____																						Limited Plus Package ____																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
PM Email: _____																						Full Package ____																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
Lab No.	Sample Description	Date	Time	Field Matrix	Start Depth	End Depth	Depth Unit	Grab (G) or Composite (C)	Total Number of Containers	Analysis	Flt	Pres																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										

Sampler's Name:	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company:	<u>[Signature]</u>	<u>12/22/23</u>	<u>1600</u>	<u>[Signature]</u>	<u>12/22/23</u>	<u>1600</u>
Ship Method:	Ship Date:					
Shipment Tracking No:						

Special Instructions:

THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: _____ °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No



Laboratory Management Program (LaMP) Chain of Custody Record
Soil, Sediment and Groundwater Samples

Page 4 of 4

BP Site Node Path: _____

Req Due Date (mm/dd/yy): _____

Rush TAT Yes _____ No X

BP/RM Facility No: 11060

Lab Work Order Number: _____

Lab Name: <u>Eurofins TA</u>	BP/ARC Facility Address: <u>4580 Fannkroy Way SW</u>	Consultant/Contractor: <u>Antea Group</u>
Lab Address: <u>5755 8th St. East, Tacoma, WA</u>	City, State, ZIP Code: <u>Seattle, WA 98126</u>	Consultant/Contractor Project No: <u>WA 11060</u>
Lab PM: <u>Katie Grant</u>	Lead Regulatory Agency: _____	Address: <u>18378-B Redmond Way, Redmond, WA 98052</u>
Lab Phone: <u>253-922-2310</u>	California Global ID No.: _____	Consultant/Contractor PM: <u>Lonnie Dent</u>
Lab Shipping Acct: _____	Enfos Proposal No: <u>00C87-0002/WR1027162</u>	Phone: " " Email: " "
Lab Bottle Order No: _____	Accounting Mode: Provision <u>10</u> OOC-BU _____ OOC-RM _____	Send/Submit EDD to: <u>Lonnie Dent</u>
Other Info: _____	Stage <u>70: Commercial Site Activities</u> Activity <u>116: Contracts Mgmt</u>	Invoice To: _____ BP-RM <u>X</u> BP-Other _____

BP/RM PM: Wade Melton				Sample Details						Requested Analyses														Report Type & QC Level		
																								Limited (Standard) Package _____		
PM Phone: _____																								Limited Plus Package _____		
PM Email: _____																								Full Package _____		
Lab No.	Sample Description	Date	Time	Field Matrix	Start Depth	End Depth	Depth Unit	Grab (G) or Composite (C)	Total Number of Containers	Analysis	NWTPH - 6x	NWTPH - 0x	BTEX EPA 8260	MTBE EPA 8260	Naphthalenes EPA 8260 STM	Total Lead EPA 6020									Comments	
	MW16-10-20231222	12/22/23	0850	S			10'	G	4		X	X	X	X	X	X										
	MW16-15-20231222	12/22/23	0905	S			15'	G	4		X	X	X	X	X	X										
	MW16-20-20231222	12/22/23	0930	S			20'	G	3		X	X	X	X	X	X										
	MW16-25-20231222	12/22/23	0950	S			25'	G	3		X	X	X	X	X	X										
	MW16-30-20231222	12/22/23	1010	S			30'	G	3		X	X	X	X	X	X										

Sampler's Name:	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company:	<u>Antea</u>	<u>12/22/23</u>	<u>1600</u>	<u>[Signature]</u> <u>EEEN</u>	<u>12/22/23</u>	<u>1600</u>
Ship Method:	Ship Date:					
Shipment Tracking No:						

Special Instructions:

THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: _____ °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No



Laboratory Management Program (LaMP) Chain of Custody Record
Soil, Sediment and Groundwater Samples

Page 1 of 4

BP Site Node Path: _____

Req Due Date (mm/dd/yy): _____

Rush TAT Yes _____ No ☒

BP/RM Facility No: 11060

Lab Work Order Number: _____

Lab Name: Eurofins TA	BP/ARC Facility Address: 4580 Franklin Way SW	Consultant/Contractor: Antea Group
Lab Address: 5755 8th Street East, Tacoma, WA	City, State, ZIP Code: Seattle, WA 98126	Consultant/Contractor Project No: WA 11060
Lab PM: Katie Grant	Lead Regulatory Agency: -	Address: 18378-B Redmond Way, Redmond, WA 98052
Lab Phone: 253-922-2310	California Global ID No.: -	Consultant/Contractor PM: Lonnie Dent
Lab Shipping Acct: -	Enfos Proposal No: OOC87-0002/WR1027162	Phone: 303-807-3627 Email: lonnie.dent@anteagroup.us
Lab Bottle Order No: -	Accounting Mode: Provision 10 OOC-BU OOC-RM	Send/Submit EDD to: Lonnie Dent
Other Info: -	Stage 70: Commercial Site Activity 116: Contracts Management	Invoice To: BP-RM ☒ BP-Other _____

BP/RM PM: Wade Melton				Sample Details										Requested Analyses										Report Type & QC Level		
PM Phone: _____																								Limited (Standard) Package _____		
PM Email: _____																								Limited Plus Package _____		
																								Full Package _____		
Lab No.	Sample Description	Date	Time	Field Matrix	Start Depth	End Depth	Depth Unit	Grab (G) or Composite (C)	Total Number of Containers	Analysis	Pres	Filt											Comments			
										NWTPH-6x																
										NWTPH-Dx (on 12/18/23)																
										BTEX EPA 8260																
										MTBE EPA 8260																
										Naphthalenes EPA 8260																
										Total Lead EPA 6020																
	SB9-5-20231218	12/18/23	1600	S			5'	G	4															Discard		
	SB9-5-20231219	12/19/23	1415	S			5'	G	4		X	X	X	X	X	X										
	SB9-10-20231220	12/20/23	1410	S			10'	G	4		X	X	X	X	X	X										
	SB9-15-20231220	12/20/23	1425	S			15'	G	4		X	X	X	X	X	X										
	SB9-20-20231220	12/20/23	1458	S			20'	G	4		X	X	X	X	X	X										
	SB9-25-20231220	12/20/23	1520	S			25'	G	4		X	X	X	X	X	X										
	MW14-5-20231218	12/18/23	1255	S			5'	G	4		X	X	X	X	X	X										



580-135260 Chain of Custody

Sampler's Name: Arthur Clouss		Relinquished By / Affiliation		Date	Time	Accepted By / Affiliation		Date	Time
Sampler's Company: Antea Group		Arthur Clouss / Antea Group		12/22/23	1600	[Signature] EETN		12/22/23	1600
Ship Method: Courier		Ship Date: 12/22/23							
Shipment Tracking No: _____									

Special Instructions:

THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: _____ °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

Proprietary and Confidential
Property of BP and its Affiliates

IR11 5.6/5.8
MR/ICW/Buo/client drop.



Laboratory Management Program (LaMP) Chain of Custody Record
Soil, Sediment and Groundwater Samples

Page 2 of 4

BP Site Node Path: _____

Req Due Date (mm/dd/yy): _____

Rush TAT Yes _____ No ☒

BP/RM Facility No: 11060

Lab Work Order Number: _____

Lab Name: Eurofins TA	BP/ARC Facility Address: 4580 Fremont Way SW	Consultant/Contractor: Anka Group
Lab Address: 5755 8th St, East, Tacoma, WA	City, State, ZIP Code: Seattle, WA 98126	Consultant/Contractor Project No: WA 11060
Lab PM: Katia Grant	Lead Regulatory Agency: _____	Address: 18378-B Redmond Way, Redmond, WA 98052
Lab Phone: 253-922-2310	California Global ID No.: _____	Consultant/Contractor PM: Lonnie Dent
Lab Shipping Acct: _____	Enfos Proposal No: 00087-0002/WR1027162	Phone: _____ Email: _____
Lab Bottle Order No: _____	Accounting Mode: Provision 10 OOC-BU _____ OOC-RM _____	Send/Submit EDD to: Lonnie Dent
Other Info: _____	Stage 70: Commercial Site Activity 116: Contracts Manager	Invoice To: BP-RM ☒ BP-Other _____

BP/RM PM: Wade Melton				Sample Details		Requested Analyses												Report Type & QC Level	
PM Phone: _____																		Limited (Standard) Package _____	
PM Email: _____																		Limited Plus Package _____	
																		Full Package _____	
Lab No.	Sample Description	Date	Time	Field Matrix	Start Depth	End Depth	Depth Unit	Grab (G) or Composite (C)	Total Number of Containers	Analysis	NW1PH-G*	NW1PH-D*	BTEX EPA 8260	MTBE EPA 8260	Naphthalenes EPA 8270 STM	Total Lead EPA 6020	Hold	Comments	
	MW14-10-20231221	12/21/23	0920	S			10'	G	4		X	X	X	X	X	X			
	MW14-15-20231221	12/21/23	0930	S			15'	G	4		X	X	X	X	X	X			
	MW14-17.5-20231221	12/21/23	0935	S			17.5'	G	4		X	X	X	X	X	X			
	MW14-20-20231221	12/21/23	0940	S			20'	G	4		X	X	X	X	X	X			
	MW14-25-20231221	12/21/23	1000	S			25'	G	4							X			
	MW14-30-20231221	12/21/23	1017	S			30'	G	4		X	X	X	X	X	X			
	MW15-5-20231219	12/19/23	0020	S			5'	G	4		X	X	X	X	X	X			

Sampler's Name:	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company:		12/22/23	1600		12/22/23	1600
Ship Method:	Ship Date:					
Shipment Tracking No:						

Special Instructions:

THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: _____ °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No



Page 3 of 4

Rush TAT Yes No ☒

Lab Work Order Number:

Sampler's Name:	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company:		12/22/23	1600	 EBT	12/22/23	1600
Ship Method:	Ship Date:					
Shipment Tracking No:						

THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No



Laboratory Management Program (LaMP) Chain of Custody Record
Soil, Sediment and Groundwater Samples

Page 4 of 4

BP Site Node Path: _____

Req Due Date (mm/dd/yy): _____

Rush TAT Yes _____ No ☒

BP/RM Facility No: 11060

Lab Work Order Number: _____

Lab Name: Eurofins TA	BP/ARC Facility Address: 4580 Fannkroy Way SW	Consultant/Contractor: Antea Group
Lab Address: 5755 8th St. East, Tacoma, WA	City, State, ZIP Code: Seattle, WA 98126	Consultant/Contractor Project No: WA 11060
Lab PM: Katie Grant	Lead Regulatory Agency: _____	Address: 18378-B Redmond Way, Redmond, WA 98052
Lab Phone: 253-922-2310	California Global ID No.: _____	Consultant/Contractor PM: Lonnie Dent
Lab Shipping Acct: _____	Enfos Proposal No: 00C87-0002/WR1027162	Phone: " Email: "
Lab Bottle Order No: _____	Accounting Mode: Provision 10 OOC-BU _____ OOC-RM _____	Send/Submit EDD to: Lonnie Dent
Other Info: _____	Stage 70: Commercial Site Activity 116: Contracts Mgmt	Invoice To: BP-RM ☒ BP-Other _____

BP/RM PM: Wade Melton				Sample Details						Requested Analyses														Report Type & QC Level		
																								Limited (Standard) Package _____		
PM Phone: _____																								Limited Plus Package _____		
PM Email: _____																								Full Package _____		
Lab No.	Sample Description	Date	Time	Field Matrix	Start Depth	End Depth	Depth Unit	Grab (G) or Composite (C)	Total Number of Containers	Analysis	NWTPH - 6x	NWTPH - 0x	BTEX EPA 8260	MTBE EPA 8260	Naphthalenes EPA 8260 STM	Total Lead EPA 6020									Comments	
	MW16-10-20231222	12/22/23	0850	S			10'	G	4		X	X	X	X	X	X										
	MW16-15-20231222	12/22/23	0905	S			15'	G	4		X	X	X	X	X	X										
	MW16-20-20231222	12/22/23	0930	S			20'	G	3		X	X	X	X	X	X										
	MW16-25-20231222	12/22/23	0950	S			25'	G	3		X	X	X	X	X	X										
	MW16-30-20231222	12/22/23	1010	S			30'	G	3		X	X	X	X	X	X										

Sampler's Name:	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company:	<i>Antea</i>	12/22/23	1600	<i>Wade Melton</i> EPN	12/22/23	1600
Ship Method:	Ship Date:					
Shipment Tracking No:						

Special Instructions:

THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: _____ °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

Login Sample Receipt Checklist

Client: Antea USA Inc.

Job Number: 580-135260-1

Login Number: 135260

List Number: 1

Creator: Prigge, Madison

List Source: Eurofins Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-135260-1

SDG No.: _____

Batch Number: 447279 Batch Start Date: 12/28/23 14:57 Batch Analyst: Oseen, Taryn GBatch Method: 5035 Batch End Date: 12/28/23 16:43

Lab Sample ID	Client Sample ID	Method Chain	Basis	TareWeight	Vial&SampleWt	MeOHSubtraction	MeOHVol	InitialAmount	FinalAmount
MB 580-447279/1		5035, 8260D					10 mL	10 g	10 mL
LCS 580-447279/2		5035, 8260D					10 mL	10 g	10 mL
LCSD 580-447279/3		5035, 8260D					10 mL	10 g	10 mL
580-135260-B-10	MW14-17.5-202312 21	5035, 8260D	T	+031.666 g	41.44 g	No	10 mL	9.774 g	10 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	Methanol 1L 00063	V2.4TFT-EX 00096	VOAMasterSEC 00087	VoaSand 00076		
MB 580-447279/1		5035, 8260D			10 mL		10 g		
LCS 580-447279/2		5035, 8260D		10 mL		160 uL	10 g		
LCSD 580-447279/3		5035, 8260D		10 mL		160 uL	10 g		
580-135260-B-10	MW14-17.5-202312 21	5035, 8260D	T						

Batch Notes	
Balance ID	sea239
Balance is Level? (Y/N)	yes
Blank Matrix ID	3660618
Pipette/Syringe/Dispenser ID	BT5/BT7
Vial Lot Number	0112201I
Batch Comment	W2023087

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D

Page 1 of 1

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins SeattleJob No.: 580-135260-1

SDG No.: _____

Batch Number: 447281Batch Start Date: 12/28/23 15:10Batch Analyst: Oseen, Taryn GBatch Method: 5035Batch End Date: 12/28/23 16:05

Lab Sample ID	Client Sample ID	Method Chain	Basis	TareWeight	Vial&SampleWt	InitialAmount	FinalAmount	DI-H2O 00002	VOAMasterSEC 00087
MB 580-447281/1		5035, 8260D				5 g	5 g	5 mL	
LCS 580-447281/2		5035, 8260D				5 g	5 g	5 mL	5 uL
LCSD 580-447281/3		5035, 8260D				5 g	5 g	5 mL	5 uL
580-135260-C-2	SB9-5-20231219	5035, 8260D	T	+031.752 g	41.90 g	10.148 g	5 g		
580-135260-C-3	SB9-10-20231220	5035, 8260D	T	+030.869 g	41.16 g	10.291 g	5 g		
580-135260-C-4	SB9-15-20231220	5035, 8260D	T	+032.048 g	42.74 g	10.692 g	5 g		
580-135260-C-5	SB9-20-20231220	5035, 8260D	T	+032.171 g	43.42 g	11.249 g	5 g		
580-135260-C-6	SB9-25-20231220	5035, 8260D	T	+031.427 g	43.57 g	12.143 g	5 g		
580-135260-C-7	MW14-5-20231218	5035, 8260D	T	+031.698 g	41.74 g	10.042 g	5 g		
580-135260-C-8	MW14-10-20231221	5035, 8260D	T	+031.140 g	41.99 g	10.85 g	5 g		
580-135260-C-9	MW14-15-20231221	5035, 8260D	T	+031.854 g	41.85 g	9.996 g	5 g		
580-135260-C-10	MW14-17.5-202312 21	5035, 8260D	T	+031.943 g	41.98 g	10.037 g	5 g		
580-135260-C-11	MW14-20-20231221	5035, 8260D	T	+031.089 g	40.60 g	9.511 g	5 g		
580-135260-C-13	MW14-30-20231221	5035, 8260D	T	+031.688 g	41.86 g	10.172 g	5 g		
580-135260-D-14	MW15-5-20231219	5035, 8260D	T	+031.644 g	42.06 g	10.416 g	5 g		
580-135260-C-15	MW15-10-20231220	5035, 8260D	T	+031.147 g	42.34 g	11.193 g	5 g		
580-135260-C-16	MW15-10-20231220	5035, 8260D	T	+031.132 g	42.51 g	11.378 g	5 g		
580-135260-C-17	MW15-20-20231220	5035, 8260D	T	+031.900 g	41.47 g	9.57 g	5 g		
580-135260-C-18	MW15-25-20231220	5035, 8260D	T	+031.845 g	41.96 g	10.115 g	5 g		
580-135260-C-19	MW15-30-20231220	5035, 8260D	T	+031.192 g	41.80 g	10.608 g	5 g		
580-135260-C-20	MW15-35-20231220	5035, 8260D	T	+031.645 g	41.70 g	10.055 g	5 g		
580-135260-C-21	MW16-5-20231219	5035, 8260D	T	+031.664 g	41.80 g	10.136 g	5 g		
580-135260-C-22	MW16-10-20231219	5035, 8260D	T	+031.918 g	41.93 g	10.012 g	5 g		

Lab Sample ID	Client Sample ID	Method Chain	Basis	VoaSand 00076					
MB 580-447281/1		5035, 8260D		5 g					
LCS 580-447281/2		5035, 8260D		5 g					
LCSD 580-447281/3		5035, 8260D		5 g					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D

Page 1 of 3

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-135260-1

SDG No.: _____

Batch Number: 447281 Batch Start Date: 12/28/23 15:10 Batch Analyst: Oseen, Taryn GBatch Method: 5035 Batch End Date: 12/28/23 16:05

Lab Sample ID	Client Sample ID	Method Chain	Basis	VoaSand 00076					
580-135260-C-2	SB9-5-20231219	5035, 8260D	T						
580-135260-C-3	SB9-10-20231220	5035, 8260D	T						
580-135260-C-4	SB9-15-20231220	5035, 8260D	T						
580-135260-C-5	SB9-20-20231220	5035, 8260D	T						
580-135260-C-6	SB9-25-20231220	5035, 8260D	T						
580-135260-C-7	MW14-5-20231218	5035, 8260D	T						
580-135260-C-8	MW14-10-20231221	5035, 8260D	T						
580-135260-C-9	MW14-15-20231221	5035, 8260D	T						
580-135260-C-10	MW14-17.5-20231221	5035, 8260D	T						
580-135260-C-11	MW14-20-20231221	5035, 8260D	T						
580-135260-C-13	MW14-30-20231221	5035, 8260D	T						
580-135260-D-14	MW15-5-20231219	5035, 8260D	T						
580-135260-C-15	MW15-10-20231220	5035, 8260D	T						
580-135260-C-16	MW15-10-20231220	5035, 8260D	T						
580-135260-C-17	MW15-20-20231220	5035, 8260D	T						
580-135260-C-18	MW15-25-20231220	5035, 8260D	T						
580-135260-C-19	MW15-30-20231220	5035, 8260D	T						
580-135260-C-20	MW15-35-20231220	5035, 8260D	T						
580-135260-C-21	MW16-5-20231219	5035, 8260D	T						
580-135260-C-22	MW16-10-20231219	5035, 8260D	T						

Batch Notes	
Balance ID	sea239
Balance is Level? (Y/N)	yes
Blank Matrix ID	3660618
Preservative ID	NaHSO4
Pipette/Syringe/Dispenser ID	BT4
Vial Lot Number	0112201I

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-135260-1

SDG No.: _____

Batch Number: 447281 Batch Start Date: 12/28/23 15:10 Batch Analyst: Oseen, Taryn GBatch Method: 5035 Batch End Date: 12/28/23 16:05

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D

Page 3 of 3

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-135260-1

SDG No.: _____

Batch Number: 447406 Batch Start Date: 12/29/23 12:59 Batch Analyst: Oseen, Taryn GBatch Method: 5035 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	TareWeight	Vial&SampleWt	InitialAmount	FinalAmount	DI-H2O 00002	VOAMasterSEC 00087
MB 580-447406/1		5035, 8260D				5 g	5 g	5 mL	
LCS 580-447406/2		5035, 8260D				5 g	5 g	5 mL	5 uL
LCSD 580-447406/3		5035, 8260D				5 g	5 g	5 mL	5 uL
580-135260-C-23	MW16-15-20231219	5035, 8260D	T	+031.615 g	41.51 g	9.895 g	5 g		
580-135260-C-24	MW16-20-20231219	5035, 8260D	T	+031.097 g	40.72 g	9.623 g	5 g		
580-135260-C-25	MW16-25-20231219	5035, 8260D	T	+030.905 g	41.44 g	10.535 g	5 g		
580-135260-C-26	MW16-30-20231219	5035, 8260D	T	+031.480 g	41.62 g	10.14 g	5 g		

Lab Sample ID	Client Sample ID	Method Chain	Basis	VoaSand 00076					
MB 580-447406/1		5035, 8260D		5 g					
LCS 580-447406/2		5035, 8260D		5 g					
LCSD 580-447406/3		5035, 8260D		5 g					
580-135260-C-23	MW16-15-20231219	5035, 8260D	T						
580-135260-C-24	MW16-20-20231219	5035, 8260D	T						
580-135260-C-25	MW16-25-20231219	5035, 8260D	T						
580-135260-C-26	MW16-30-20231219	5035, 8260D	T						

Batch Notes	
Balance ID	sea239
Balance is Level? (Y/N)	yes
Blank Matrix ID	3660618
Preservative ID	NaHSO4
Pipette/Syringe/Dispenser ID	BT4
Vial Lot Number	0112201I

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D

Page 1 of 1

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins SeattleJob No.: 580-135260-1

SDG No.: _____

Batch Number: 447472Batch Start Date: 12/29/23 18:11Batch Analyst: Oseen, Taryn GBatch Method: 5035Batch End Date: 12/29/23 18:24

Lab Sample ID	Client Sample ID	Method Chain	Basis	TareWeight	Vial&SampleWt	InitialAmount	FinalAmount	DI-H2O 00002	VOAMasterSEC 00087
MB 580-447472/1		5035, 8260D				5 g	5 g	5 mL	
LCS 580-447472/2		5035, 8260D				5 g	5 g	5 mL	5 uL
LCSD 580-447472/3		5035, 8260D				5 g	5 g	5 mL	5 uL
580-135260-D-2	SB9-5-20231219	5035, 8260D	T	+031.813 g	42.64 g	10.827 g	5 g		
580-135260-D-3	SB9-10-20231220	5035, 8260D	T	+031.578 g	41.94 g	10.362 g	5 g		
580-135260-D-4	SB9-15-20231220	5035, 8260D	T	+031.051 g	41.49 g	10.439 g	5 g		
580-135260-D-5	SB9-20-20231220	5035, 8260D	T	+031.448 g	41.64 g	10.192 g	5 g		
580-135260-D-6	SB9-25-20231220	5035, 8260D	T	+031.604 g	41.39 g	9.786 g	5 g		
580-135260-D-7	MW14-5-20231218	5035, 8260D	T	+030.824 g	40.78 g	9.956 g	5 g		
580-135260-D-8	MW14-10-20231221	5035, 8260D	T	+031.682 g	43.38 g	11.698 g	5 g		
580-135260-D-9	MW14-15-20231221	5035, 8260D	T	+031.502 g	41.54 g	10.038 g	5 g		
580-135260-C-10	MW14-17.5-202312 21	5035, 8260D	T	+030.847 g	42.44 g	11.593 g	5 g		
580-135260-D-11	MW14-20-20231221	5035, 8260D	T	+031.095 g	41.01 g	9.915 g	5 g		
580-135260-D-13	MW14-30-20231221	5035, 8260D	T	+031.772 g	44.00 g	12.228 g	5 g		
580-135260-D-14	MW15-5-20231219	5035, 8260D	T	+031.421 g	42.01 g	10.589 g	5 g		
580-135260-D-15	MW15-10-20231220	5035, 8260D	T	+031.090 g	41.17 g	10.08 g	5 g		
580-135260-D-16	MW15-10-20231220	5035, 8260D	T	+031.048 g	41.11 g	10.062 g	5 g		
580-135260-D-17	MW15-20-20231220	5035, 8260D	T	+031.082 g	41.13 g	10.048 g	5 g		
580-135260-D-18	MW15-25-20231220	5035, 8260D	T	+031.318 g	41.29 g	9.972 g	5 g		
580-135260-D-19	MW15-30-20231220	5035, 8260D	T	+031.443 g	41.24 g	9.797 g	5 g		
580-135260-D-20	MW15-35-20231220	5035, 8260D	T	+031.551 g	41.56 g	10.009 g	5 g		
580-135260-D-21	MW16-5-20231219	5035, 8260D	T	+031.319 g	41.59 g	10.271 g	5 g		
580-135260-D-22	MW16-10-20231219	5035, 8260D	T	+031.661 g	41.60 g	9.939 g	5 g		

Lab Sample ID	Client Sample ID	Method Chain	Basis	VoaSand 00076					
MB 580-447472/1		5035, 8260D		5 g					
LCS 580-447472/2		5035, 8260D		5 g					
LCSD 580-447472/3		5035, 8260D		5 g					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D

Page 1 of 3

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-135260-1

SDG No.: _____

Batch Number: 447472 Batch Start Date: 12/29/23 18:11 Batch Analyst: Oseen, Taryn GBatch Method: 5035 Batch End Date: 12/29/23 18:24

Lab Sample ID	Client Sample ID	Method Chain	Basis	VoaSand 00076					
580-135260-D-2	SB9-5-20231219	5035, 8260D	T						
580-135260-D-3	SB9-10-20231220	5035, 8260D	T						
580-135260-D-4	SB9-15-20231220	5035, 8260D	T						
580-135260-D-5	SB9-20-20231220	5035, 8260D	T						
580-135260-D-6	SB9-25-20231220	5035, 8260D	T						
580-135260-D-7	MW14-5-20231218	5035, 8260D	T						
580-135260-D-8	MW14-10-20231221	5035, 8260D	T						
580-135260-D-9	MW14-15-20231221	5035, 8260D	T						
580-135260-C-10	MW14-17.5-20231221	5035, 8260D	T						
580-135260-D-11	MW14-20-20231221	5035, 8260D	T						
580-135260-D-13	MW14-30-20231221	5035, 8260D	T						
580-135260-D-14	MW15-5-20231219	5035, 8260D	T						
580-135260-D-15	MW15-10-20231220	5035, 8260D	T						
580-135260-D-16	MW15-10-20231220	5035, 8260D	T						
580-135260-D-17	MW15-20-20231220	5035, 8260D	T						
580-135260-D-18	MW15-25-20231220	5035, 8260D	T						
580-135260-D-19	MW15-30-20231220	5035, 8260D	T						
580-135260-D-20	MW15-35-20231220	5035, 8260D	T						
580-135260-D-21	MW16-5-20231219	5035, 8260D	T						
580-135260-D-22	MW16-10-20231219	5035, 8260D	T						

Batch Notes	
Balance ID	sea239
Balance is Level? (Y/N)	yes
Blank Matrix ID	3660618
Preservative ID	NaHSO4
Pipette/Syringe/Dispenser ID	BT4
Vial Lot Number	0112201I
Batch Comment	W2023087

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-135260-1

SDG No.: _____

Batch Number: 447472 Batch Start Date: 12/29/23 18:11 Batch Analyst: Oseen, Taryn GBatch Method: 5035 Batch End Date: 12/29/23 18:24

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D

Page 3 of 3

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-135260-1

SDG No.:

Batch Number: 447279 Batch Start Date: 12/28/23 14:57 Batch Analyst: Oseen, Taryn G

Batch Method: 5035 Batch End Date: 12/28/23 16:43

Lab Sample ID	Client Sample ID	Method Chain	Basis	TareWeight	Vial&SampleWt	MeOHSubtraction	MeOHVol	InitialAmount	FinalAmount
580-135260-B-14	MW15-5-20231219	5035, NWTPH-Gx	T	+031.713 g	41.61 g	No	10 mL	9.897 g	10 mL
580-135260-B-16	MW15-10-20231220	5035, NWTPH-Gx	T	+030.965 g	41.00 g	No	10 mL	10.035 g	10 mL
580-135260-B-20	MW15-35-20231220	5035, NWTPH-Gx	T	+031.104 g	40.86 g	No	10 mL	9.756 g	10 mL

Batch Notes	
Balance ID	sea239
Balance is Level? (Y/N)	yes
Blank Matrix ID	3660618
Pipette/Syringe/Dispenser ID	BT5/BT7
Vial Lot Number	0112201I
Batch Comment	W2023087

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins SeattleJob No.: 580-135260-1

SDG No.: _____

Batch Number: 447432Batch Start Date: 12/29/23 14:31Batch Analyst: Oseen, Taryn GBatch Method: 5035Batch End Date: 12/29/23 16:36

Lab Sample ID	Client Sample ID	Method Chain	Basis	TareWeight	Vial&SampleWt	MeOHSubtraction	MeOHVol	InitialAmount	FinalAmount
MB 580-447432/1		5035, NWTPH-Gx					10 mL	10 g	10 mL
LCS 580-447432/4		5035, NWTPH-Gx					10 mL	10 g	10 mL
LCSD 580-447432/5		5035, NWTPH-Gx					10 mL	10 g	10 mL
580-135260-B-21	MW16-5-20231219	5035, NWTPH-Gx	T	+030.974 g	41.02 g	No	10 mL	10.046 g	10 mL
580-135260-B-22	MW16-10-20231219	5035, NWTPH-Gx	T	+031.438 g	41.33 g	No	10 mL	9.892 g	10 mL
580-135260-B-23	MW16-15-20231219	5035, NWTPH-Gx	T	+031.740 g	41.36 g	No	10 mL	9.62 g	10 mL
580-135260-B-24	MW16-20-20231219	5035, NWTPH-Gx	T	+031.248 g	41.35 g	No	10 mL	10.102 g	10 mL
580-135260-B-25	MW16-25-20231219	5035, NWTPH-Gx	T	+031.666 g	41.59 g	No	10 mL	9.924 g	10 mL
580-135260-B-26	MW16-30-20231219	5035, NWTPH-Gx	T	+031.324 g	41.16 g	No	10 mL	9.836 g	10 mL
580-135260-B-2	SB9-5-20231219	5035, NWTPH-Gx	T	+031.816 g	41.78 g	No	10 mL	9.964 g	10 mL
580-135260-B-3	SB9-10-20231220	5035, NWTPH-Gx	T	+031.573 g	42.17 g	No	10 mL	10.597 g	10 mL
580-135260-B-4	SB9-15-20231220	5035, NWTPH-Gx	T	+031.775 g	41.67 g	No	10 mL	9.895 g	10 mL
580-135260-B-5	SB9-20-20231220	5035, NWTPH-Gx	T	+031.818 g	41.81 g	No	10 mL	9.992 g	10 mL
580-135260-B-6	SB9-25-20231220	5035, NWTPH-Gx	T	+031.402 g	41.70 g	No	10 mL	10.298 g	10 mL
580-135260-B-7	MW14-5-20231218	5035, NWTPH-Gx	T	+031.531 g	42.40 g	No	10 mL	10.869 g	10 mL
580-135260-B-8	MW14-10-20231221	5035, NWTPH-Gx	T	+031.394 g	41.67 g	No	10 mL	10.276 g	10 mL
580-135260-B-9	MW14-15-20231221	5035, NWTPH-Gx	T	+032.036 g	43.81 g	No	10 mL	11.774 g	10 mL
580-135260-B-10	MW14-17.5-20231221	5035, NWTPH-Gx	T	+031.666 g	41.44 g	No	10 mL	9.774 g	10 mL
580-135260-B-11	MW14-20-20231221	5035, NWTPH-Gx	T	+031.408 g	41.10 g	No	10 mL	9.692 g	10 mL
580-135260-B-13	MW14-30-20231221	5035, NWTPH-Gx	T	+031.775 g	45.67 g	No	10 mL	13.895 g	10 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	GRO_LCS 00092	V2.4TFT-EX 00096	VoaSand 00076			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

NWTPH-Gx

Page 1 of 3

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins SeattleJob No.: 580-135260-1

SDG No.: _____

Batch Number: 447432Batch Start Date: 12/29/23 14:31Batch Analyst: Oseen, Taryn GBatch Method: 5035Batch End Date: 12/29/23 16:36

Lab Sample ID	Client Sample ID	Method Chain	Basis	GRO_LCS 00092	V2.4TFT-EX 00096	VoaSand 00076			
MB 580-447432/1		5035, NWTPH-Gx			10 mL	10 g			
LCS 580-447432/4		5035, NWTPH-Gx		100 uL	10 mL	10 g			
LCSD 580-447432/5		5035, NWTPH-Gx		100 uL	10 mL	10 g			
580-135260-B-21	MW16-5-20231219	5035, NWTPH-Gx	T						
580-135260-B-22	MW16-10-20231219	5035, NWTPH-Gx	T						
580-135260-B-23	MW16-15-20231219	5035, NWTPH-Gx	T						
580-135260-B-24	MW16-20-20231219	5035, NWTPH-Gx	T						
580-135260-B-25	MW16-25-20231219	5035, NWTPH-Gx	T						
580-135260-B-26	MW16-30-20231219	5035, NWTPH-Gx	T						
580-135260-B-2	SB9-5-20231219	5035, NWTPH-Gx	T						
580-135260-B-3	SB9-10-20231220	5035, NWTPH-Gx	T						
580-135260-B-4	SB9-15-20231220	5035, NWTPH-Gx	T						
580-135260-B-5	SB9-20-20231220	5035, NWTPH-Gx	T						
580-135260-B-6	SB9-25-20231220	5035, NWTPH-Gx	T						
580-135260-B-7	MW14-5-20231218	5035, NWTPH-Gx	T						
580-135260-B-8	MW14-10-20231221	5035, NWTPH-Gx	T						
580-135260-B-9	MW14-15-20231221	5035, NWTPH-Gx	T						
580-135260-B-10	MW14-17.5-202312 21	5035, NWTPH-Gx	T						
580-135260-B-11	MW14-20-20231221	5035, NWTPH-Gx	T						
580-135260-B-13	MW14-30-20231221	5035, NWTPH-Gx	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

NWTPH-Gx

Page 2 of 3

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-135260-1

SDG No.: _____

Batch Number: 447432 Batch Start Date: 12/29/23 14:31 Batch Analyst: Oseen, Taryn GBatch Method: 5035 Batch End Date: 12/29/23 16:36

Batch Notes	
Balance ID	sea239
Balance is Level? (Y/N)	yes
Blank Matrix ID	3660618
Pipette/Syringe/Dispenser ID	BT5/BT7
Vial Lot Number	0112201I
Batch Comment	W2023087

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-135260-1

SDG No.: _____

Batch Number: 447623 Batch Start Date: 01/03/24 11:16 Batch Analyst: Tucker, Jonathon BBatch Method: 5035 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	TareWeight	Vial&SampleWt	MeOHSubtraction	MeOHVol	InitialAmount	FinalAmount
MB 580-447623/1		5035, NWTPH-Gx					10 mL	10 g	10 mL
LCS 580-447623/4		5035, NWTPH-Gx					10 mL	10 g	10 mL
LCSD 580-447623/5		5035, NWTPH-Gx					10 mL	10 g	10 mL
580-135260-B-14	MW15-5-20231219	5035, NWTPH-Gx	T	+031.713 g	41.61 g	No	10 mL	9.897 g	10 mL
580-135260-B-15	MW15-10-20231220	5035, NWTPH-Gx	T	+031.544 g	41.90 g	No	10 mL	10.356 g	10 mL
580-135260-B-16	MW15-10-20231220	5035, NWTPH-Gx	T	+030.965 g	41.00 g	No	10 mL	10.035 g	10 mL
580-135260-B-17	MW15-20-20231220	5035, NWTPH-Gx	T	+031.787 g	42.41 g	No	10 mL	10.623 g	10 mL
580-135260-B-18	MW15-25-20231220	5035, NWTPH-Gx	T	+031.390 g	41.31 g	No	10 mL	9.92 g	10 mL
580-135260-B-19	MW15-30-20231220	5035, NWTPH-Gx	T	+031.777 g	43.17 g	No	10 mL	11.393 g	10 mL
580-135260-B-20	MW15-35-20231220	5035, NWTPH-Gx	T	+031.104 g	40.86 g	No	10 mL	9.756 g	10 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	GRO_LCS 00092	Methanol 1L 00063	VoaSand 00076			
MB 580-447623/1		5035, NWTPH-Gx			10 mL	10 g			
LCS 580-447623/4		5035, NWTPH-Gx		100 uL	10 mL	10 g			
LCSD 580-447623/5		5035, NWTPH-Gx		100 uL	10 mL	10 g			
580-135260-B-14	MW15-5-20231219	5035, NWTPH-Gx	T						
580-135260-B-15	MW15-10-20231220	5035, NWTPH-Gx	T						
580-135260-B-16	MW15-10-20231220	5035, NWTPH-Gx	T						
580-135260-B-17	MW15-20-20231220	5035, NWTPH-Gx	T						
580-135260-B-18	MW15-25-20231220	5035, NWTPH-Gx	T						
580-135260-B-19	MW15-30-20231220	5035, NWTPH-Gx	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

NWTPH-Gx

Page 1 of 2

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-135260-1

SDG No.: _____

Batch Number: 447623 Batch Start Date: 01/03/24 11:16 Batch Analyst: Tucker, Jonathon BBatch Method: 5035 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	GRO_LCS 00092	Methanol 1L 00063	VoaSand 00076			
580-135260-B-20	MW15-35-20231220	5035, NWTPH-Gx	T						

Batch Notes	
Balance ID	sea239
Balance is Level? (Y/N)	yes
Blank Matrix ID	3151999
Pipette/Syringe/Dispenser ID	bt5
Vial Lot Number	0126501H
Batch Comment	3008891

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

NWTPH-Gx

Page 2 of 2

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins SeattleJob No.: 580-135260-1

SDG No.: _____

Batch Number: 447131Batch Start Date: 12/27/23 13:09Batch Analyst: Webster, Echo 1Batch Method: 3546Batch End Date: 12/29/23 15:36

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8270flspk 00327	8270Surr_Phen 00019		
MB 580-447131/1		3546, 8270E SIM		10 g	10 mL		100 uL		
LCS 580-447131/2		3546, 8270E SIM		10 g	10 mL	100 uL	100 uL		
LCSD 580-447131/3		3546, 8270E SIM		10 g	10 mL	100 uL	100 uL		
580-135260-A-2	SB9-5-20231219	3546, 8270E SIM	T	10.668 g	10 mL		100 uL		
580-135260-A-2 MS	SB9-5-20231219	3546, 8270E SIM	T	10.161 g	10 mL	100 uL	100 uL		
580-135260-A-2 MSD	SB9-5-20231219	3546, 8270E SIM	T	10.305 g	10 mL	100 uL	100 uL		
580-135260-A-3	SB9-10-20231220	3546, 8270E SIM	T	10.943 g	10 mL		100 uL		
580-135260-A-4	SB9-15-20231220	3546, 8270E SIM	T	10.077 g	10 mL		100 uL		
580-135260-A-5	SB9-20-20231220	3546, 8270E SIM	T	10.454 g	10 mL		100 uL		
580-135260-A-6	SB9-25-20231220	3546, 8270E SIM	T	10.857 g	10 mL		100 uL		
580-135260-A-7	MW14-5-20231218	3546, 8270E SIM	T	10.771 g	10 mL		100 uL		
580-135260-A-8	MW14-10-20231221	3546, 8270E SIM	T	10.258 g	10 mL		100 uL		
580-135260-A-9	MW14-15-20231221	3546, 8270E SIM	T	10.830 g	10 mL		100 uL		
580-135260-A-10	MW14-17.5-202312 21	3546, 8270E SIM	T	10.380 g	10 mL		100 uL		
580-135260-A-11	MW14-20-20231221	3546, 8270E SIM	T	10.404 g	10 mL		100 uL		
580-135260-A-13	MW14-30-20231221	3546, 8270E SIM	T	10.513 g	10 mL		100 uL		
580-135260-A-14	MW15-5-20231219	3546, 8270E SIM	T	10.072 g	10 mL		100 uL		
580-135260-A-15	MW15-10-20231220	3546, 8270E SIM	T	10.462 g	10 mL		100 uL		
580-135260-A-16	MW15-10-20231220	3546, 8270E SIM	T	10.679 g	10 mL		100 uL		
580-135260-A-17	MW15-20-20231220	3546, 8270E SIM	T	10.290 g	10 mL		100 uL		
580-135260-A-18	MW15-25-20231220	3546, 8270E SIM	T	10.900 g	10 mL		100 uL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8270E SIM

Page 1 of 3

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-135260-1

SDG No.: _____

Batch Number: 447131 Batch Start Date: 12/27/23 13:09 Batch Analyst: Webster, Echo 1Batch Method: 3546 Batch End Date: 12/29/23 15:36

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8270flspk 00327	8270Surr_Phen 00019		
580-135260-A-19	MW15-30-20231220	3546, 8270E SIM	T	10.538 g	10 mL		100 uL		
580-135260-A-20	MW15-35-20231220	3546, 8270E SIM	T	10.504 g	10 mL		100 uL		
580-135260-A-21	MW16-5-20231219	3546, 8270E SIM	T	10.887 g	10 mL		100 uL		

Batch Notes	
Method/Fraction	3546/8270_SIM
Balance ID	SEA230
Balance is Level? (Y/N)	yes
Microwave Oven ID	MARS10
Microwave Program ID	FUELSXPRESS
Pipette/Syringe/Dispenser ID	MP5
Analyst ID - Extraction	EW
Blank Matrix ID	3376690
Analyst ID - Spike Analyst	EW
Sufficient Volume for Batch QC	yes
Prep Solvent ID	3615444 / 3638633
Na2SO4 ID	2086139
Filter ID	09-795F
Analyst ID - Concentration	EW
Equipment ID - Concentration 1	Turbovap 6
Thermometer ID - Concentration 1	Digital readout
Concentration 1 Uncorrected Temperature	44 Degrees C
Concentration 1 Corrected Temperature	40 Degrees C
Vial Lot Number	224700
Pipette Tip Lot ID	13-678-20D
Batch Comment	vb: EW

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8270E SIM

Page 2 of 3

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins SeattleJob No.: 580-135260-1

SDG No.: _____

Batch Number: 447131Batch Start Date: 12/27/23 13:09Batch Analyst: Webster, Echo 1Batch Method: 3546Batch End Date: 12/29/23 15:36

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8270E SIM

Page 3 of 3

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-135260-1

SDG No.: _____

Batch Number: 447218 Batch Start Date: 12/28/23 09:37 Batch Analyst: Anderson, Tess OBatch Method: 3546 Batch End Date: 12/29/23 11:33

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8270flspk 00327	8270Surr_Phen 00019		
MB 580-447218/1		3546, 8270E SIM		10 g	10 mL		100 uL		
LCS 580-447218/2		3546, 8270E SIM		10 g	10 mL	100 uL	100 uL		
LCSD 580-447218/3		3546, 8270E SIM		10 g	10 mL	100 uL	100 uL		
580-135260-A-22	MW16-10-20231219	3546, 8270E SIM	T	10.23 g	10 mL		100 uL		
580-135260-A-23	MW16-15-20231219	3546, 8270E SIM	T	10.43 g	10 mL		100 uL		
580-135260-A-24	MW16-20-20231219	3546, 8270E SIM	T	10.44 g	10 mL		100 uL		
580-135260-A-25	MW16-25-20231219	3546, 8270E SIM	T	10.67 g	10 mL		100 uL		
580-135260-A-26	MW16-30-20231219	3546, 8270E SIM	T	10.44 g	10 mL		100 uL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8270E SIM

Page 1 of 2

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-135260-1

SDG No.: _____

Batch Number: 447218 Batch Start Date: 12/28/23 09:37 Batch Analyst: Anderson, Tess OBatch Method: 3546 Batch End Date: 12/29/23 11:33

Batch Notes	
Method/Fraction	3546/8270_SIM/8270
Balance ID	SEA240
Balance is Level? (Y/N)	yes
Microwave Oven ID	MARS10
Microwave Program ID	FUELSXPRESS
Pipette/Syringe/Dispenser ID	MP5
Analyst ID - Extraction	TA
Blank Matrix ID	3376690
Analyst ID - Spike Analyst	TA
Sufficient Volume for Batch QC	yes
Prep Solvent ID	3615444 / 3638633
Na2SO4 ID	2086139
Filter ID	24176600
Analyst ID - Concentration	EW
Equipment ID - Concentration 1	Turbovap 6
Thermometer ID - Concentration 1	Digital readout
Concentration 1 Uncorrected Temperature	44 Degrees C
Concentration 1 Corrected Temperature	40 Degrees C
Vial Lot Number	224700
Pipette Tip Lot ID	13-678-20D
Batch Comment	vb: EW

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8270E SIM

Page 2 of 2

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-135260-1

SDG No.: _____

Batch Number: 448068 Batch Start Date: 01/09/24 10:09 Batch Analyst: Anderson, Tess OBatch Method: 3546 Batch End Date: 01/10/24 10:53

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8270flspk 00334	8270Surr_Phen 00019	AnalysisComment	
MB 580-448068/1		3546, 8270E SIM		10 g	10 mL		100 uL		
LCS 580-448068/2		3546, 8270E SIM		10 g	10 mL	100 uL	100 uL	spiked with 100uL of 8270flspk 00334	
LCSD 580-448068/3		3546, 8270E SIM		10 g	10 mL	100 uL	100 uL	spiked with 100uL of 8270flspk 00334	
580-135260-A-22	MW16-10-20231219	3546, 8270E SIM	T	10.29 g	10 mL		100 uL		
580-135260-A-22 MS	MW16-10-20231219	3546, 8270E SIM	T	10.55 g	10 mL	100 uL	100 uL	spiked with 100uL of 8270flspk 00334	
580-135260-A-22 MSD	MW16-10-20231219	3546, 8270E SIM	T	10.20 g	10 mL	100 uL	100 uL	spiked with 100uL of 8270flspk 00334	
580-135260-A-23	MW16-15-20231219	3546, 8270E SIM	T	10.52 g	10 mL		100 uL		
580-135260-A-24	MW16-20-20231219	3546, 8270E SIM	T	10.46 g	10 mL		100 uL		
580-135260-A-25	MW16-25-20231219	3546, 8270E SIM	T	10.37 g	10 mL		100 uL		
580-135260-A-26	MW16-30-20231219	3546, 8270E SIM	T	10.78 g	10 mL		100 uL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8270E SIM

Page 1 of 2

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-135260-1

SDG No.: _____

Batch Number: 448068 Batch Start Date: 01/09/24 10:09 Batch Analyst: Anderson, Tess OBatch Method: 3546 Batch End Date: 01/10/24 10:53

Batch Notes	
Method/Fraction	3546/8270_SIM
Balance ID	SEA230
Balance is Level? (Y/N)	yes
Microwave Oven ID	MARS1
Microwave Program ID	FUELSXPRESS
Pipette/Syringe/Dispenser ID	MP5
Analyst ID - Extraction	KW
Blank Matrix ID	3632787
Analyst ID - Spike Analyst	TA
Sufficient Volume for Batch QC	yes
Prep Solvent ID	3615444 / 3638633
Na2SO4 ID	2086139
Filter ID	09-795F
Analyst ID - Concentration	EW
Equipment ID - Concentration 1	Turbovap 6
Thermometer ID - Concentration 1	Digital readout
Concentration 1 Uncorrected Temperature	44 Degrees C
Concentration 1 Corrected Temperature	40 Degrees C
Vial Lot Number	224700
Pipette Tip Lot ID	13-678-20D
Batch Comment	vb: EW

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8270E SIM

Page 2 of 2

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins SeattleJob No.: 580-135260-1

SDG No.: _____

Batch Number: 447278Batch Start Date: 12/28/23 14:45Batch Analyst: Webster, Echo 1Batch Method: 3546Batch End Date: 12/28/23 15:09

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	TPH Spike_RZ 00109	TPH_SURR 00083		
MB 580-447278/1		3546, NWTPH-Dx		10 g	10 mL		100 uL		
LCS 580-447278/2		3546, NWTPH-Dx		10 g	10 mL	100 uL	100 uL		
LCSD 580-447278/3		3546, NWTPH-Dx		10 g	10 mL	100 uL	100 uL		
580-135260-A-2	SB9-5-20231219	3546, NWTPH-Dx	T	10.728 g	10 mL		100 uL		
580-135260-A-2 DU	SB9-5-20231219	3546, NWTPH-Dx	T	10.571 g	10 mL		100 uL		
580-135260-A-3	SB9-10-20231220	3546, NWTPH-Dx	T	10.442 g	10 mL		100 uL		
580-135260-A-4	SB9-15-20231220	3546, NWTPH-Dx	T	10.525 g	10 mL		100 uL		
580-135260-A-5	SB9-20-20231220	3546, NWTPH-Dx	T	10.456 g	10 mL		100 uL		
580-135260-A-6	SB9-25-20231220	3546, NWTPH-Dx	T	10.118 g	10 mL		100 uL		
580-135260-A-7	MW14-5-20231218	3546, NWTPH-Dx	T	10.076 g	10 mL		100 uL		
580-135260-A-8	MW14-10-20231221	3546, NWTPH-Dx	T	10.593 g	10 mL		100 uL		
580-135260-A-9	MW14-15-20231221	3546, NWTPH-Dx	T	10.469 g	10 mL		100 uL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

NWTPH-Dx

Page 1 of 2

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-135260-1

SDG No.: _____

Batch Number: 447278 Batch Start Date: 12/28/23 14:45 Batch Analyst: Webster, Echo 1Batch Method: 3546 Batch End Date: 12/28/23 15:09

Batch Notes	
Method/Fraction	3546/8015_DRO/Dx
Balance ID	SEA230
Balance is Level? (Y/N)	yes
Microwave Oven ID	MARS10
Microwave Program ID	FUELSXPRESS
Pipette/Syringe/Dispenser ID	MP5
Analyst ID - Extraction	EW
Blank Matrix ID	3376690
Analyst ID - Spike Analyst	EW
Sufficient Volume for Batch QC	yes
Prep Solvent ID	3659733
Na2SO4 ID	2086139
Filter ID	09-795F
Analyst ID - Concentration	AA
Equipment ID - Concentration 1	Turbovap 5
Thermometer ID - Concentration 1	Digital readout
Concentration 1 Uncorrected Temperature	42 Degrees C
Concentration 1 Corrected Temperature	40 Degrees C
Vial Lot Number	224700
Pipette Tip Lot ID	13-678-20D
Batch Comment	vb:AA

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

NWTPH-Dx

Page 2 of 2

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins SeattleJob No.: 580-135260-1

SDG No.: _____

Batch Number: 447283Batch Start Date: 12/28/23 15:32Batch Analyst: Anderson, Tess OBatch Method: 3546Batch End Date: 12/29/23 12:19

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	TPH Spike_RZ 00109	TPH_SURR 00083		
MB 580-447283/1		3546, NWTPH-Dx		10 g	10 mL		100 uL		
LCS 580-447283/2		3546, NWTPH-Dx		10 g	10 mL	100 uL	100 uL		
LCSD 580-447283/3		3546, NWTPH-Dx		10 g	10 mL	100 uL	100 uL		
580-135260-A-14	MW15-5-20231219	3546, NWTPH-Dx	T	10.26 g	10 mL		100 uL		
580-135260-A-14 DU	MW15-5-20231219	3546, NWTPH-Dx	T	10.29 g	10 mL		100 uL		
580-135260-A-21	MW16-5-20231219	3546, NWTPH-Dx	T	9.95 g	10 mL		100 uL		
580-135260-A-15	MW15-10-20231220	3546, NWTPH-Dx	T	10.59 g	10 mL		100 uL		
580-135260-A-16	MW15-10-20231220	3546, NWTPH-Dx	T	10.85 g	10 mL		100 uL		
580-135260-A-17	MW15-20-20231220	3546, NWTPH-Dx	T	10.37 g	10 mL		100 uL		
580-135260-A-18	MW15-25-20231220	3546, NWTPH-Dx	T	10.36 g	10 mL		100 uL		
580-135260-A-19	MW15-30-20231220	3546, NWTPH-Dx	T	10.45 g	10 mL		100 uL		
580-135260-A-20	MW15-35-20231220	3546, NWTPH-Dx	T	10.55 g	10 mL		100 uL		
580-135260-A-10	MW14-17.5-202312 21	3546, NWTPH-Dx	T	10.53 g	10 mL		100 uL		
580-135260-A-11	MW14-20-20231221	3546, NWTPH-Dx	T	10.94 g	10 mL		100 uL		
580-135260-A-13	MW14-30-20231221	3546, NWTPH-Dx	T	10.06 g	10 mL		100 uL		
580-135260-A-22	MW16-10-20231219	3546, NWTPH-Dx	T	10.64 g	10 mL		100 uL		
580-135260-A-23	MW16-15-20231219	3546, NWTPH-Dx	T	10.09 g	10 mL		100 uL		
580-135260-A-24	MW16-20-20231219	3546, NWTPH-Dx	T	10.07 g	10 mL		100 uL		
580-135260-A-25	MW16-25-20231219	3546, NWTPH-Dx	T	10.64 g	10 mL		100 uL		
580-135139-D-7		3546, NWTPH-Dx	T	9.96 g	10 mL		100 uL		
580-135139-D-7 DU		3546, NWTPH-Dx	T	10.82 g	10 mL		100 uL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

NWTPH-Dx

Page 1 of 2

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-135260-1

SDG No.: _____

Batch Number: 447283 Batch Start Date: 12/28/23 15:32 Batch Analyst: Anderson, Tess OBatch Method: 3546 Batch End Date: 12/29/23 12:19

Batch Notes	
Method/Fraction	3546/Dx
Balance ID	SEA240
Balance is Level? (Y/N)	yes
Microwave Oven ID	MARS10
Microwave Program ID	FUELSXPRESS
Pipette/Syringe/Dispenser ID	MP5
Analyst ID - Extraction	TA
Blank Matrix ID	3376690
Analyst ID - Spike Analyst	TA
Analyst ID - Spike Witness Analyst	EW
Prep Solvent ID	3659733
Na2SO4 ID	2086139
Filter ID	09-795F
Analyst ID - Concentration	TA
Equipment ID - Concentration 1	Turbovap 6
Thermometer ID - Concentration 1	Digital readout
Concentration 1 Uncorrected Temperature	44 Degrees C
Concentration 1 Corrected Temperature	40 Degrees C
Vial Lot Number	224700
Pipette Tip Lot ID	13-678-20D
Batch Comment	vb: TA

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

NWTPH-Dx

Page 2 of 2

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-135260-1

SDG No.: _____

Batch Number: 447762 Batch Start Date: 01/04/24 11:10 Batch Analyst: Anderson, Tess OBatch Method: 3546 Batch End Date: 01/06/24 13:25

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	TPH Spike_RZ 00109	TPH_SURR 00083		
MB 580-447762/1		3546, NWTPH-Dx		10 g	10 mL		100 uL		
LCS 580-447762/2		3546, NWTPH-Dx		10 g	10 mL	100 uL	100 uL		
LCSD 580-447762/3		3546, NWTPH-Dx		10 g	10 mL	100 uL	100 uL		
580-135139-D-8		3546, NWTPH-Dx	T	10.19 g	10 mL		100 uL		
580-135139-D-8 DU		3546, NWTPH-Dx	T	10.16 g	10 mL		100 uL		
580-135260-A-26	MW16-30-20231219	3546, NWTPH-Dx	T	10.61 g	10 mL		100 uL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

NWTPH-Dx

Page 1 of 2

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-135260-1

SDG No.: _____

Batch Number: 447762 Batch Start Date: 01/04/24 11:10 Batch Analyst: Anderson, Tess OBatch Method: 3546 Batch End Date: 01/06/24 13:25

Batch Notes	
Method/Fraction	3546/8015_DRO/Dx/Ak102_103
Balance ID	SEA240
Balance is Level? (Y/N)	yes
Microwave Oven ID	MARS10
Microwave Program ID	FUELSXPRESS
Pipette/Syringe/Dispenser ID	MP5
Analyst ID - Extraction	EF
Blank Matrix ID	3376690
Analyst ID - Spike Analyst	TA
Sufficient Volume for Batch QC	yes
Prep Solvent ID	3659733
Na2SO4 ID	2086139
Filter ID	09-795F
Analyst ID - Concentration	AA
Equipment ID - Concentration 1	Turbovap 6
Thermometer ID - Concentration 1	Digital readout
Concentration 1 Uncorrected Temperature	44 Degrees C
Concentration 1 Corrected Temperature	40 Degrees C
Vial Lot Number	224700
Pipette Tip Lot ID	13-678-20D
Batch Comment	vb:AA

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

NWTPH-Dx

Page 2 of 2

METALS BATCH WORKSHEET

Lab Name: Eurofins SeattleJob No.: 580-135260-1

SDG No.: _____

Batch Number: 447390Batch Start Date: 12/29/23 11:16Batch Analyst: Lees, JensenBatch Method: 3050BBatch End Date: 01/02/24 13:48

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ICP CAL 1 00027	ICP CAL 2 00028	MET Spike 3C 00048	
580-135324-A-1		3050B, 6020B	T	1.7368 g	50 mL				
580-135324-A-1 DU		3050B, 6020B	T	1.7080 g	50 mL				
580-135324-A-1 MS		3050B, 6020B	T	1.7414 g	50 mL	0.5 mL	0.5 mL	0.5 mL	
580-135324-A-1 MSD		3050B, 6020B	T	1.7134 g	50 mL	0.5 mL	0.5 mL	0.5 mL	
580-135260-A-2	SB9-5-20231219	3050B, 6020B	T	1.1829 g	50 mL				
580-135260-A-3	SB9-10-20231220	3050B, 6020B	T	1.6607 g	50 mL				
580-135260-A-4	SB9-15-20231220	3050B, 6020B	T	1.0765 g	50 mL				
580-135260-A-5	SB9-20-20231220	3050B, 6020B	T	1.4604 g	50 mL				
580-135260-A-6	SB9-25-20231220	3050B, 6020B	T	1.4981 g	50 mL				
580-135260-A-7	MW14-5-20231218	3050B, 6020B	T	1.1373 g	50 mL				
580-135260-A-8	MW14-10-20231221	3050B, 6020B	T	1.0619 g	50 mL				
580-135260-A-9	MW14-15-20231221	3050B, 6020B	T	1.1333 g	50 mL				
580-135260-A-10	MW14-17.5-202312 21	3050B, 6020B	T	1.3255 g	50 mL				
580-135260-A-11	MW14-20-20231221	3050B, 6020B	T	1.2042 g	50 mL				
580-135260-A-13	MW14-30-20231221	3050B, 6020B	T	1.1149 g	50 mL				
MB 580-447390/22		3050B, 6020B		1 g	50 mL				
ICS 580-447390/23		3050B, 6020B		1 g	50 mL	0.5 mL	0.5 mL	0.5 mL	
LCSD 580-447390/24		3050B, 6020B		1 g	50 mL	0.5 mL	0.5 mL	0.5 mL	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

6020B

Page 1 of 2

METALS BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-135260-1

SDG No.: _____

Batch Number: 447390 Batch Start Date: 12/29/23 11:16 Batch Analyst: Lees, JensenBatch Method: 3050B Batch End Date: 01/02/24 13:48

Batch Notes	
Blank Soil Lot Number	3668494
Balance ID	SEA241
Balance is Level? (Y/N)	yes
Digestion Tube/Cup ID	3661596
Analyst ID - Spike Analyst	JL
Analyst ID - Spike Witness Analyst	AUA
Sufficient Volume for Batch QC	YES
Hydrochloric Acid ID	3636811
Nitric Acid ID	3638583
Hydrogen Peroxide ID	3346162
Digestion Unit ID	BLOCK A
Thermometer ID	1108438
Thermometer Location ID	A15
Temperature - Uncorrected - Start	92.0 Degrees C
Temperature - Corrected - Start	91.6 Degrees C
Temperature - Uncorrected - End	92.0 Degrees C
Temperature - Corrected - End	91.6 Degrees C
Digestion Start Time	01/02/2024 11:10
Digestion End Time	01/02/2024 13:48
Batch Comment	HNO3/HCL: 1110-1125 HNO3: 1145-1245 H2O2: 1333-1348

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

6020B

Page 2 of 2

METALS BATCH WORKSHEET

Lab Name: Eurofins SeattleJob No.: 580-135260-1

SDG No.: _____

Batch Number: 447518Batch Start Date: 01/02/24 09:52Batch Analyst: Lees, JensenBatch Method: 3050BBatch End Date: 01/04/24 15:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ICP CAL 1 00027	ICP CAL 2 00028	MET Spike 3C 00048	
580-135260-A-14	MW15-5-20231219	3050B, 6020B	T	1.2352 g	50 mL				
580-135260-A-14 DU	MW15-5-20231219	3050B, 6020B	T	1.2426 g	50 mL				
580-135260-A-14 MS	MW15-5-20231219	3050B, 6020B	T	1.2413 g	50 mL	0.5 mL	0.5 mL	0.5 mL	
580-135260-A-14 MSD	MW15-5-20231219	3050B, 6020B	T	1.2367 g	50 mL	0.5 mL	0.5 mL	0.5 mL	
580-135260-A-15	MW15-10-20231220	3050B, 6020B	T	1.8329 g	50 mL				
580-135260-A-16	MW15-10-20231220	3050B, 6020B	T	1.1143 g	50 mL				
580-135260-A-17	MW15-20-20231220	3050B, 6020B	T	1.3062 g	50 mL				
580-135260-A-18	MW15-25-20231220	3050B, 6020B	T	1.2368 g	50 mL				
580-135260-A-19	MW15-30-20231220	3050B, 6020B	T	1.1394 g	50 mL				
580-135260-A-20	MW15-35-20231220	3050B, 6020B	T	1.2809 g	50 mL				
580-135260-A-21	MW16-5-20231219	3050B, 6020B	T	1.2240 g	50 mL				
580-135260-A-22	MW16-10-20231219	3050B, 6020B	T	1.0424 g	50 mL				
580-135260-A-23	MW16-15-20231219	3050B, 6020B	T	1.2675 g	50 mL				
580-135260-A-24	MW16-20-20231219	3050B, 6020B	T	1.6304 g	50 mL				
580-135260-A-25	MW16-25-20231219	3050B, 6020B	T	1.7222 g	50 mL				
580-135260-A-26	MW16-30-20231219	3050B, 6020B	T	1.7233 g	50 mL				
MB 580-447518/22		3050B, 6020B		1 g	50 mL				
ICS 580-447518/23		3050B, 6020B		1 g	50 mL	0.5 mL	0.5 mL	0.5 mL	
LCSD 580-447518/24		3050B, 6020B		1 g	50 mL	0.5 mL	0.5 mL	0.5 mL	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

6020B

Page 1 of 2

METALS BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-135260-1

SDG No.: _____

Batch Number: 447518 Batch Start Date: 01/02/24 09:52 Batch Analyst: Lees, JensenBatch Method: 3050B Batch End Date: 01/04/24 15:15

Batch Notes	
Blank Soil Lot Number	3668516
Balance ID	SEA241
Balance is Level? (Y/N)	yes
Digestion Tube/Cup ID	3661596
Analyst ID - Spike Analyst	JL
Analyst ID - Spike Witness Analyst	TH
Sufficient Volume for Batch QC	YES
Hydrochloric Acid ID	3636811
Nitric Acid ID	3638583
Hydrogen Peroxide ID	3346162
Digestion Unit ID	BLOCK A
Thermometer ID	1108438
Thermometer Location ID	A22
Temperature - Uncorrected - Start	93.0 Degrees C
Temperature - Corrected - Start	92.6 Degrees C
Temperature - Uncorrected - End	93.0 Degrees C
Temperature - Corrected - End	92.6 Degrees C
Digestion Start Time	01/04/2024 12:27
Digestion End Time	01/04/2024 15:15
Batch Comment	HNO3/HCL: 1227-1242 HNO3: 1334-1434 H2O2: 1500-1515

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

6020B

Page 2 of 2

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins SeattleJob No.: 580-135260-1

SDG No.: _____

Batch Number: 447130Batch Start Date: 12/27/23 12:43Batch Analyst: Hua, Tammy MBatch Method: 2540GBatch End Date: 12/28/23 11:55

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry	%_Moisture	%_Solid	
580-135260-A-2	SB9-5-20231219	2540G	T	0.7993 g	9.0659 g	7.0268 g	24.666731183316 %	75.333268816684 %	
580-135260-A-2 DU	SB9-5-20231219	2540G	T	0.7958 g	9.0042 g	6.9976 g	24.445689781199 7 %	75.554310218800 3 %	
580-135260-A-3	SB9-10-20231220	2540G	T	0.7943 g	10.7852 g	9.0294 g	17.573992333023 1 %	82.426007666976 9 %	
580-135260-A-3 DU	SB9-10-20231220	2540G	T	0.8002 g	10.8213 g	9.3278 g	14.903553502110 6 %	85.096446497889 4 %	
580-135260-A-4	SB9-15-20231220	2540G	T	0.8017 g	11.0245 g	9.4797 g	15.111319794968 1 %	84.888680205031 9 %	
580-135260-A-5	SB9-20-20231220	2540G	T	0.7992 g	13.5598 g	12.0008 g	12.217293857655 6 %	87.782706142344 4 %	
580-135260-A-6	SB9-25-20231220	2540G	T	0.7956 g	13.7788 g	11.7913 g	15.308244500585 4 %	84.691755499414 6 %	
580-135260-A-7	MW14-5-20231218	2540G	T	0.8086 g	9.4305 g	8.3032 g	13.074844291861 4 %	86.925155708138 6 %	
580-135260-A-8	MW14-10-20231221	2540G	T	0.8058 g	8.5050 g	6.7974 g	22.178927680798 %	77.821072319202 %	
580-135260-A-9	MW14-15-20231221	2540G	T	0.8112 g	10.0282 g	8.2344 g	19.461863947054 4 %	80.538136052945 6 %	
580-135260-A-10	MW14-17.5-202312 21	2540G	T	0.7979 g	10.7268 g	9.3618 g	13.747746477454 7 %	86.252253522545 3 %	
580-135260-A-11	MW14-20-20231221	2540G	T	0.8054 g	13.7269 g	12.0606 g	12.895561660797 9 %	87.104438339202 1 %	
580-135260-A-13	MW14-30-20231221	2540G	T	0.8235 g	14.3854 g	11.6262 g	20.345231862792 1 %	79.654768137207 9 %	
580-135260-A-14	MW15-5-20231219	2540G	T	0.8179 g	12.3443 g	9.9695 g	20.60313714603 %	79.39686285397 %	
580-135260-A-15	MW15-10-20231220	2540G	T	0.8166 g	11.3023 g	9.2652 g	19.427410664047 2 %	80.572589335952 8 %	
580-135260-A-16	MW15-10-20231220	2540G	T	0.8152 g	12.9366 g	11.3903 g	12.756777269952 3 %	87.243222730047 7 %	
580-135260-A-17	MW15-20-20231220	2540G	T	0.8065 g	14.1009 g	12.4556 g	12.375887591768 %	87.624112408232 %	
580-135260-A-18	MW15-25-20231220	2540G	T	0.8144 g	13.4967 g	11.2511 g	17.706567420736 %	82.293432579264 %	
580-135260-A-19	MW15-30-20231220	2540G	T	0.7988 g	12.4712 g	10.8701 g	13.716973373085 2 %	86.283026626914 8 %	
580-135260-A-20	MW15-35-20231220	2540G	T	0.8034 g	12.4657 g	10.0408 g	20.792639530795 8 %	79.207360469204 2 %	
580-135260-A-21	MW16-5-20231219	2540G	T	0.7975 g	9.6016 g	7.6783 g	21.845503799366 2 %	78.154496200633 8 %	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

2540G

Page 1 of 2

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Seattle

Job No.: 580-135260-1

SDG No.:

Batch Number: 447130

Batch Start Date: 12/27/23 12:43

Batch Analyst: Hua, Tammy M

Batch Method: 2540G

Batch End Date: 12/28/23 11:55

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry	%_Moisture	%_Solid	
580-135260-A-22	MW16-10-20231219	2540G	T	0.7979 g	12.8486 g	9.6861 g	26.243288771606 6 %	73.756711228393 4 %	
580-135260-A-23	MW16-15-20231219	2540G	T	0.7977 g	12.9063 g	10.7153 g	18.094577407792 8 %	81.905422592207 2 %	
580-135260-A-24	MW16-20-20231219	2540G	T	0.7976 g	10.5451 g	8.8445 g	17.446524749935 9 %	82.553475250064 1 %	
580-135260-A-25	MW16-25-20231219	2540G	T	0.8072 g	13.7010 g	11.0291 g	20.722362685942 1 %	79.277637314057 9 %	
580-135260-A-26	MW16-30-20231219	2540G	T	0.7971 g	16.1784 g	12.1057 g	26.478256064181 8 %	73.521743935818 2 %	

Batch Notes

Balance ID	SEA227
Balance is Level? (Y/N)	yes
Oven ID	Oven 2
Thermometer ID	Digital Readout
Date samples were placed in the oven	12/27/2023
Time samples were place in the oven	16:01
Temperature - Start - Uncorrected	123.8 Degrees C
Oven Temp In	120.7 Degrees C
Date samples were removed from oven	12/28/2023
Time Samples were removed from oven	11:31
Analyst ID - Weighing	TH
Temperature - End - Uncorrected	120.1 Degrees C
Oven Temp Out	117.0 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

2540G

Page 2 of 2

Appendix E - Groundwater Laboratory Analytical Report and Chain-of-Custody



ANALYTICAL REPORT

PREPARED FOR

Attn: Megan Richard
Antea USA Inc.
18378-B Redmond Way
Redmond, Washington 98052

Generated 2/22/2024 3:34:13 PM

JOB DESCRIPTION

BP - ARCO 11060

JOB NUMBER

580-136479-1

Eurofins Seattle

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northwest, LLC Project Manager.

Compliance Statement

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the BPLAMP Technical Specifications, applicable federal, state, local regulations and certification requirements as well as the methodologies as described in laboratory SOPs reviewed by the BPLAMP. This Laboratory Report is confidential and is intended for the sole use of Eurofins Environment Testing (USA) and its client. This report shall not be reproduced, except in full, without written permission from Eurofins Environment Testing (USA). The signature on the cover page extends to the case narrative and all the data and forms in the package. The Chain of Custody is included and is an integral part of this report.

Authorization



Authorized for release by
Katie Grant, Project Manager I
Katie.Grant@et.eurofinsus.com
(253)922-2310

Generated
2/22/2024 3:34:13 PM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Detection Summary	6
Client Sample Results	8
Surrogate Summary	16
QC Sample Results	18
QC Association Summary	26
Lab Chronicle	30
Certification Summary	33
Method Summary	34
Sample Summary	35
Chain of Custody	36
Receipt Checklists	37
Prep Data	38



Definitions/Glossary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-136479-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Antea USA Inc.
Project: BP - ARCO 11060

Job ID: 580-136479-1

Job ID: 580-136479-1

Eurofins Seattle

Job Narrative 580-136479-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 2/9/2024 3:45 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C.

GC/MS VOA

Method 8260D: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-14_20240206 (580-136479-6). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Seattle

Detection Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-136479-1

Client Sample ID: MW-1_20240206

Lab Sample ID: 580-136479-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
#2 Diesel (C10-C24)	610		110	67	ug/L	1		NWTPH-Dx	Total/NA
Motor Oil (>C24-C36)	620		360	98	ug/L	1		NWTPH-Dx	Total/NA

Client Sample ID: MW-4_20240206

Lab Sample ID: 580-136479-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
#2 Diesel (C10-C24)	1600		120	68	ug/L	1		NWTPH-Dx	Total/NA
Motor Oil (>C24-C36)	590		370	100	ug/L	1		NWTPH-Dx	Total/NA
Lead	7.9		2.0	0.20	ug/L	5		6020B	Total Recoverable

Client Sample ID: MW-4_PDB_20240206

Lab Sample ID: 580-136479-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
#2 Diesel (C10-C24)	120		120	72	ug/L	1		NWTPH-Dx	Total/NA

Client Sample ID: MW-12_20240206

Lab Sample ID: 580-136479-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline	3900		100	14	ug/L	1		NWTPH-Gx	Total/NA
#2 Diesel (C10-C24)	2100		110	66	ug/L	1		NWTPH-Dx	Total/NA

Client Sample ID: MW-13_20240206

Lab Sample ID: 580-136479-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline	110		100	14	ug/L	1		NWTPH-Gx	Total/NA
#2 Diesel (C10-C24)	130		110	67	ug/L	1		NWTPH-Dx	Total/NA

Client Sample ID: MW-14_20240206

Lab Sample ID: 580-136479-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.7		1.0	0.24	ug/L	1		8260D	Total/NA
Toluene	3.8		1.0	0.39	ug/L	1		8260D	Total/NA
m-Xylene & p-Xylene	90		2.0	0.53	ug/L	1		8260D	Total/NA
o-Xylene	18		1.0	0.39	ug/L	1		8260D	Total/NA
Xylenes, Total	110		2.0	0.53	ug/L	1		8260D	Total/NA
Ethylbenzene - DL	150		10	5.0	ug/L	10		8260D	Total/NA
Gasoline	4600		100	14	ug/L	1		NWTPH-Gx	Total/NA
Naphthalene	20		0.52	0.17	ug/L	1		8270E SIM	Total/NA
#2 Diesel (C10-C24)	4200		110	66	ug/L	1		NWTPH-Dx	Total/NA
Motor Oil (>C24-C36)	420		350	97	ug/L	1		NWTPH-Dx	Total/NA

Client Sample ID: MW-15_20240206

Lab Sample ID: 580-136479-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene - RA	5.2		1.0	0.50	ug/L	1		8260D	Total/NA
m-Xylene & p-Xylene - RA	3.6		2.0	0.53	ug/L	1		8260D	Total/NA
Xylenes, Total - RA	3.6		2.0	0.53	ug/L	1		8260D	Total/NA
Gasoline	3700		100	14	ug/L	1		NWTPH-Gx	Total/NA
Naphthalene	4.3		0.52	0.17	ug/L	1		8270E SIM	Total/NA
#2 Diesel (C10-C24)	1600		110	67	ug/L	1		NWTPH-Dx	Total/NA
Lead	5.7		2.0	0.20	ug/L	5		6020B	Total Recoverable
Lead	4.2		2.0	0.20	ug/L	5		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins Seattle

Detection Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-136479-1

Client Sample ID: MW-16_20240206

Lab Sample ID: 580-136479-8

☐ No Detections.

Client Sample ID: Trip Blank_20240206

Lab Sample ID: 580-136479-9

☐ No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Seattle

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-136479-1

Client Sample ID: MW-1_20240206

Lab Sample ID: 580-136479-1

Date Collected: 02/06/24 10:10

Matrix: Water

Date Received: 02/09/24 15:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.24	ug/L			02/13/24 03:11	1
Toluene	ND		1.0	0.39	ug/L			02/13/24 03:11	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/13/24 03:11	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			02/13/24 03:11	1
o-Xylene	ND		1.0	0.39	ug/L			02/13/24 03:11	1
Xylenes, Total	ND		2.0	0.53	ug/L			02/13/24 03:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	107		80 - 120		02/13/24 03:11	1
1,2-Dichloroethane-d4 (Surr)	116		80 - 120		02/13/24 03:11	1
4-Bromofluorobenzene (Surr)	101		80 - 120		02/13/24 03:11	1
Dibromofluoromethane (Surr)	100		80 - 120		02/13/24 03:11	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		100	14	ug/L			02/13/24 03:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		77 - 123		02/13/24 03:11	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	610		110	67	ug/L		02/13/24 08:24	02/14/24 15:48	1
Motor Oil (>C24-C36)	620		360	98	ug/L		02/13/24 08:24	02/14/24 15:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	80		50 - 150	02/13/24 08:24	02/14/24 15:48	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.20	ug/L		02/12/24 16:07	02/13/24 12:47	5

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.20	ug/L		02/13/24 16:44	02/15/24 01:22	5

Client Sample ID: MW-4_20240206

Lab Sample ID: 580-136479-2

Date Collected: 02/06/24 11:30

Matrix: Water

Date Received: 02/09/24 15:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.24	ug/L			02/13/24 03:33	1
Toluene	ND		1.0	0.39	ug/L			02/13/24 03:33	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/13/24 03:33	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			02/13/24 03:33	1
o-Xylene	ND		1.0	0.39	ug/L			02/13/24 03:33	1
Xylenes, Total	ND		2.0	0.53	ug/L			02/13/24 03:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	110		80 - 120		02/13/24 03:33	1
1,2-Dichloroethane-d4 (Surr)	118		80 - 120		02/13/24 03:33	1

Eurofins Seattle

Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-136479-1

Client Sample ID: MW-4_20240206

Lab Sample ID: 580-136479-2

Date Collected: 02/06/24 11:30

Matrix: Water

Date Received: 02/09/24 15:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		80 - 120		02/13/24 03:33	1
Dibromofluoromethane (Surr)	100		80 - 120		02/13/24 03:33	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		100	14	ug/L			02/13/24 03:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		77 - 123		02/13/24 03:33	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	1600		120	68	ug/L		02/13/24 08:24	02/14/24 16:08	1
Motor Oil (>C24-C36)	590		370	100	ug/L		02/13/24 08:24	02/14/24 16:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	78		50 - 150	02/13/24 08:24	02/14/24 16:08	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	7.9		2.0	0.20	ug/L		02/12/24 16:07	02/13/24 13:06	5

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.20	ug/L		02/13/24 16:44	02/15/24 01:55	5

Client Sample ID: MW-4_PDB_20240206

Lab Sample ID: 580-136479-3

Date Collected: 02/06/24 10:35

Matrix: Water

Date Received: 02/09/24 15:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.24	ug/L			02/13/24 03:54	1
Toluene	ND		1.0	0.39	ug/L			02/13/24 03:54	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/13/24 03:54	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			02/13/24 03:54	1
o-Xylene	ND		1.0	0.39	ug/L			02/13/24 03:54	1
Xylenes, Total	ND		2.0	0.53	ug/L			02/13/24 03:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	109		80 - 120		02/13/24 03:54	1
1,2-Dichloroethane-d4 (Surr)	120		80 - 120		02/13/24 03:54	1
4-Bromofluorobenzene (Surr)	101		80 - 120		02/13/24 03:54	1
Dibromofluoromethane (Surr)	102		80 - 120		02/13/24 03:54	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		100	14	ug/L			02/13/24 03:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		77 - 123		02/13/24 03:54	1

Eurofins Seattle

Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-136479-1

Client Sample ID: MW-4_PDB_20240206

Lab Sample ID: 580-136479-3

Date Collected: 02/06/24 10:35

Matrix: Water

Date Received: 02/09/24 15:45

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	120		120	72	ug/L		02/13/24 08:24	02/14/24 16:29	1
Motor Oil (>C24-C36)	ND		390	110	ug/L		02/13/24 08:24	02/14/24 16:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	81		50 - 150				02/13/24 08:24	02/14/24 16:29	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.20	ug/L		02/12/24 16:07	02/13/24 12:53	5

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.20	ug/L		02/13/24 16:44	02/15/24 01:57	5

Client Sample ID: MW-12_20240206

Lab Sample ID: 580-136479-4

Date Collected: 02/06/24 13:05

Matrix: Water

Date Received: 02/09/24 15:45

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	3900		100	14	ug/L			02/13/24 07:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		77 - 123					02/13/24 07:34	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	2100		110	66	ug/L		02/13/24 08:24	02/14/24 16:49	1
Motor Oil (>C24-C36)	ND		350	97	ug/L		02/13/24 08:24	02/14/24 16:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	102		50 - 150				02/13/24 08:24	02/14/24 16:49	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.20	ug/L		02/12/24 16:07	02/13/24 12:55	5

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.20	ug/L		02/13/24 16:44	02/15/24 02:00	5

Client Sample ID: MW-13_20240206

Lab Sample ID: 580-136479-5

Date Collected: 02/06/24 14:20

Matrix: Water

Date Received: 02/09/24 15:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.24	ug/L			02/13/24 04:16	1
Toluene	ND		1.0	0.39	ug/L			02/13/24 04:16	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/13/24 04:16	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			02/13/24 04:16	1
o-Xylene	ND		1.0	0.39	ug/L			02/13/24 04:16	1

Eurofins Seattle

Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-136479-1

Client Sample ID: MW-13_20240206

Lab Sample ID: 580-136479-5

Date Collected: 02/06/24 14:20

Matrix: Water

Date Received: 02/09/24 15:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		2.0	0.53	ug/L			02/13/24 04:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	107		80 - 120					02/13/24 04:16	1
1,2-Dichloroethane-d4 (Surr)	118		80 - 120					02/13/24 04:16	1
4-Bromofluorobenzene (Surr)	103		80 - 120					02/13/24 04:16	1
Dibromofluoromethane (Surr)	101		80 - 120					02/13/24 04:16	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	110		100	14	ug/L			02/13/24 04:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		77 - 123					02/13/24 04:16	1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.52	0.17	ug/L		02/12/24 08:44	02/13/24 21:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Terphenyl-d14	74		29 - 150				02/12/24 08:44	02/13/24 21:37	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	130		110	67	ug/L		02/13/24 08:24	02/14/24 17:10	1
Motor Oil (>C24-C36)	ND		360	99	ug/L		02/13/24 08:24	02/14/24 17:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	75		50 - 150				02/13/24 08:24	02/14/24 17:10	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.20	ug/L		02/12/24 16:07	02/13/24 12:58	5

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.20	ug/L		02/13/24 16:44	02/15/24 02:03	5

Client Sample ID: MW-14_20240206

Lab Sample ID: 580-136479-6

Date Collected: 02/06/24 13:45

Matrix: Water

Date Received: 02/09/24 15:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.7		1.0	0.24	ug/L			02/13/24 04:38	1
Toluene	3.8		1.0	0.39	ug/L			02/13/24 04:38	1
m-Xylene & p-Xylene	90		2.0	0.53	ug/L			02/13/24 04:38	1
o-Xylene	18		1.0	0.39	ug/L			02/13/24 04:38	1
Xylenes, Total	110		2.0	0.53	ug/L			02/13/24 04:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	108		80 - 120					02/13/24 04:38	1

Eurofins Seattle

Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-136479-1

Client Sample ID: MW-14_20240206

Lab Sample ID: 580-136479-6

Date Collected: 02/06/24 13:45

Matrix: Water

Date Received: 02/09/24 15:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120		80 - 120		02/13/24 04:38	1
4-Bromofluorobenzene (Surr)	99		80 - 120		02/13/24 04:38	1
Dibromofluoromethane (Surr)	102		80 - 120		02/13/24 04:38	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	150		10	5.0	ug/L			02/13/24 21:44	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		80 - 120					02/13/24 21:44	10
1,2-Dichloroethane-d4 (Surr)	93		80 - 120					02/13/24 21:44	10
4-Bromofluorobenzene (Surr)	102		80 - 120					02/13/24 21:44	10
Dibromofluoromethane (Surr)	96		80 - 120					02/13/24 21:44	10

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	4600		100	14	ug/L			02/13/24 04:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		77 - 123					02/13/24 04:38	1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	20		0.52	0.17	ug/L		02/12/24 08:44	02/13/24 22:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Terphenyl-d14	73		29 - 150				02/12/24 08:44	02/13/24 22:01	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	4200		110	66	ug/L		02/13/24 08:24	02/14/24 17:30	1
Motor Oil (>C24-C36)	420		350	97	ug/L		02/13/24 08:24	02/14/24 17:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	64		50 - 150				02/13/24 08:24	02/14/24 17:30	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.20	ug/L		02/12/24 16:07	02/13/24 13:01	5

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.20	ug/L		02/13/24 16:44	02/15/24 02:06	5

Client Sample ID: MW-15_20240206

Lab Sample ID: 580-136479-7

Date Collected: 02/06/24 12:10

Matrix: Water

Date Received: 02/09/24 15:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.24	ug/L			02/13/24 05:00	1
Toluene	ND		1.0	0.39	ug/L			02/13/24 05:00	1

Eurofins Seattle

Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-136479-1

Client Sample ID: MW-15_20240206

Lab Sample ID: 580-136479-7

Date Collected: 02/06/24 12:10

Matrix: Water

Date Received: 02/09/24 15:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0	0.39	ug/L			02/13/24 05:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	106		80 - 120					02/13/24 05:00	1
1,2-Dichloroethane-d4 (Surr)	119		80 - 120					02/13/24 05:00	1
4-Bromofluorobenzene (Surr)	102		80 - 120					02/13/24 05:00	1
Dibromofluoromethane (Surr)	102		80 - 120					02/13/24 05:00	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5.2		1.0	0.50	ug/L			02/13/24 21:20	1
m-Xylene & p-Xylene	3.6		2.0	0.53	ug/L			02/13/24 21:20	1
Xylenes, Total	3.6		2.0	0.53	ug/L			02/13/24 21:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120					02/13/24 21:20	1
1,2-Dichloroethane-d4 (Surr)	91		80 - 120					02/13/24 21:20	1
4-Bromofluorobenzene (Surr)	103		80 - 120					02/13/24 21:20	1
Dibromofluoromethane (Surr)	95		80 - 120					02/13/24 21:20	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	3700		100	14	ug/L			02/13/24 05:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		77 - 123					02/13/24 05:00	1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	4.3		0.52	0.17	ug/L		02/12/24 08:44	02/13/24 22:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Terphenyl-d14	74		29 - 150				02/12/24 08:44	02/13/24 22:26	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	1600		110	67	ug/L		02/13/24 11:35	02/14/24 17:51	1
Motor Oil (>C24-C36)	ND		360	98	ug/L		02/13/24 11:35	02/14/24 17:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	97		50 - 150				02/13/24 11:35	02/14/24 17:51	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	5.7		2.0	0.20	ug/L		02/12/24 16:07	02/13/24 13:04	5

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	4.2		2.0	0.20	ug/L		02/13/24 16:44	02/15/24 02:08	5

Eurofins Seattle

Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-136479-1

Client Sample ID: MW-16_20240206

Lab Sample ID: 580-136479-8

Date Collected: 02/06/24 09:25

Matrix: Water

Date Received: 02/09/24 15:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.24	ug/L			02/20/24 23:13	1
Toluene	ND		1.0	0.39	ug/L			02/20/24 23:13	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/20/24 23:13	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			02/20/24 23:13	1
o-Xylene	ND		1.0	0.39	ug/L			02/20/24 23:13	1
Xylenes, Total	ND		2.0	0.53	ug/L			02/20/24 23:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		80 - 120		02/20/24 23:13	1
1,2-Dichloroethane-d4 (Surr)	113		80 - 120		02/20/24 23:13	1
4-Bromofluorobenzene (Surr)	97		80 - 120		02/20/24 23:13	1
Dibromofluoromethane (Surr)	104		80 - 120		02/20/24 23:13	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		100	14	ug/L			02/20/24 23:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		77 - 123		02/20/24 23:13	1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.51	0.17	ug/L		02/12/24 08:44	02/13/24 22:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	72		29 - 150	02/12/24 08:44	02/13/24 22:51	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		110	67	ug/L		02/13/24 08:24	02/14/24 18:11	1
Motor Oil (>C24-C36)	ND		360	98	ug/L		02/13/24 08:24	02/14/24 18:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	75		50 - 150	02/13/24 08:24	02/14/24 18:11	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.20	ug/L		02/12/24 16:07	02/13/24 12:50	5

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.20	ug/L		02/13/24 16:44	02/15/24 02:11	5

Client Sample ID: Trip Blank_20240206

Lab Sample ID: 580-136479-9

Date Collected: 02/06/24 00:00

Matrix: Water

Date Received: 02/09/24 15:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.24	ug/L			02/13/24 01:02	1
Toluene	ND		1.0	0.39	ug/L			02/13/24 01:02	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/13/24 01:02	1

Eurofins Seattle

Client Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-136479-1

Client Sample ID: Trip Blank_20240206

Lab Sample ID: 580-136479-9

Date Collected: 02/06/24 00:00

Matrix: Water

Date Received: 02/09/24 15:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			02/13/24 01:02	1
o-Xylene	ND		1.0	0.39	ug/L			02/13/24 01:02	1
Xylenes, Total	ND		2.0	0.53	ug/L			02/13/24 01:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	108		80 - 120		02/13/24 01:02	1
1,2-Dichloroethane-d4 (Surr)	113		80 - 120		02/13/24 01:02	1
4-Bromofluorobenzene (Surr)	105		80 - 120		02/13/24 01:02	1
Dibromofluoromethane (Surr)	99		80 - 120		02/13/24 01:02	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		100	14	ug/L			02/13/24 01:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		77 - 123		02/13/24 01:02	1

Surrogate Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-136479-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TOL (80-120)	DCA (80-120)	BFB (80-120)	DBFM (80-120)
580-136479-1	MW-1_20240206	107	116	101	100
580-136479-2	MW-4_20240206	110	118	104	100
580-136479-3	MW-4_PDB_20240206	109	120	101	102
580-136479-5	MW-13_20240206	107	118	103	101
580-136479-6	MW-14_20240206	108	120	99	102
580-136479-6 - DL	MW-14_20240206	97	93	102	96
580-136479-7	MW-15_20240206	106	119	102	102
580-136479-7 - RA	MW-15_20240206	98	91	103	95
580-136479-8	MW-16_20240206	103	113	97	104
580-136479-9	Trip Blank_20240206	108	113	105	99
LCS 580-451146/6	Lab Control Sample	107	110	101	101
LCS 580-451191/4	Lab Control Sample	99	96	100	99
LCS 580-451873/6	Lab Control Sample	105	107	100	104
LCSD 580-451146/7	Lab Control Sample Dup	108	113	101	101
LCSD 580-451191/5	Lab Control Sample Dup	98	97	102	100
LCSD 580-451873/7	Lab Control Sample Dup	101	105	98	101
MB 580-451146/11	Method Blank	109	113	103	99
MB 580-451191/7	Method Blank	99	100	98	102
MB 580-451873/11	Method Blank	98	105	103	102

Surrogate Legend

TOL = Toluene-d8 (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (77-123)			
580-136479-1	MW-1_20240206	101			
580-136479-2	MW-4_20240206	104			
580-136479-3	MW-4_PDB_20240206	101			
580-136479-4	MW-12_20240206	100			
580-136479-5	MW-13_20240206	103			
580-136479-6	MW-14_20240206	99			
580-136479-7	MW-15_20240206	102			
580-136479-8	MW-16_20240206	97			
580-136479-9	Trip Blank_20240206	105			
LCS 580-451142/8	Lab Control Sample	102			
LCS 580-451869/8	Lab Control Sample	101			
LCSD 580-451142/9	Lab Control Sample Dup	103			
LCSD 580-451869/9	Lab Control Sample Dup	99			
MB 580-451142/11	Method Blank	103			
MB 580-451869/11	Method Blank	103			

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Eurofins Seattle

Surrogate Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-136479-1

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TPHL (29-150)
580-136479-5	MW-13_20240206	74
580-136479-6	MW-14_20240206	73
580-136479-7	MW-15_20240206	74
580-136479-8	MW-16_20240206	72
LCS 580-451074/2-A	Lab Control Sample	85
LCSD 580-451074/3-A	Lab Control Sample Dup	76
MB 580-451074/1-A	Method Blank	86

Surrogate Legend

TPHL = Terphenyl-d14

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTPH (50-150)
580-136479-1	MW-1_20240206	80
580-136479-2	MW-4_20240206	78
580-136479-3	MW-4_PDB_20240206	81
580-136479-4	MW-12_20240206	102
580-136479-5	MW-13_20240206	75
580-136479-6	MW-14_20240206	64
580-136479-7	MW-15_20240206	97
580-136479-8	MW-16_20240206	75
LCS 580-451153/2-A	Lab Control Sample	73
LCSD 580-451153/3-A	Lab Control Sample Dup	77
MB 580-451153/1-A	Method Blank	84

Surrogate Legend

OTPH = o-Terphenyl

QC Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-136479-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 580-451146/11

Matrix: Water

Analysis Batch: 451146

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.24	ug/L			02/13/24 00:19	1
Toluene	ND		1.0	0.39	ug/L			02/13/24 00:19	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/13/24 00:19	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			02/13/24 00:19	1
o-Xylene	ND		1.0	0.39	ug/L			02/13/24 00:19	1
Xylenes, Total	ND		2.0	0.53	ug/L			02/13/24 00:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	109		80 - 120		02/13/24 00:19	1
1,2-Dichloroethane-d4 (Surr)	113		80 - 120		02/13/24 00:19	1
4-Bromofluorobenzene (Surr)	103		80 - 120		02/13/24 00:19	1
Dibromofluoromethane (Surr)	99		80 - 120		02/13/24 00:19	1

Lab Sample ID: LCS 580-451146/6

Matrix: Water

Analysis Batch: 451146

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	10.0	9.97		ug/L		100	80 - 122
Toluene	10.0	11.2		ug/L		112	80 - 120
Ethylbenzene	10.0	11.5		ug/L		115	80 - 120
m-Xylene & p-Xylene	10.0	11.5		ug/L		115	80 - 120
o-Xylene	10.0	11.7		ug/L		117	80 - 120
Xylenes, Total	20.0	23.2		ug/L		116	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	107		80 - 120
1,2-Dichloroethane-d4 (Surr)	110		80 - 120
4-Bromofluorobenzene (Surr)	101		80 - 120
Dibromofluoromethane (Surr)	101		80 - 120

Lab Sample ID: LCSD 580-451146/7

Matrix: Water

Analysis Batch: 451146

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	10.0	10.1		ug/L		101	80 - 122	2	14
Toluene	10.0	11.3		ug/L		113	80 - 120	1	13
Ethylbenzene	10.0	11.6		ug/L		116	80 - 120	1	14
m-Xylene & p-Xylene	10.0	11.3		ug/L		113	80 - 120	2	14
o-Xylene	10.0	11.7		ug/L		117	80 - 120	0	16
Xylenes, Total	20.0	23.0		ug/L		115	80 - 120	1	16

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	108		80 - 120
1,2-Dichloroethane-d4 (Surr)	113		80 - 120
4-Bromofluorobenzene (Surr)	101		80 - 120

Eurofins Seattle

QC Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-136479-1

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

Lab Sample ID: LCSD 580-451146/7

Matrix: Water

Analysis Batch: 451146

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	101		80 - 120

Lab Sample ID: MB 580-451191/7

Matrix: Water

Analysis Batch: 451191

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.0	0.50	ug/L			02/13/24 14:53	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			02/13/24 14:53	1
Xylenes, Total	ND		2.0	0.53	ug/L			02/13/24 14:53	1

	MB	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120				02/13/24 14:53	1
1,2-Dichloroethane-d4 (Surr)	100		80 - 120				02/13/24 14:53	1
4-Bromofluorobenzene (Surr)	98		80 - 120				02/13/24 14:53	1
Dibromofluoromethane (Surr)	102		80 - 120				02/13/24 14:53	1

Lab Sample ID: LCS 580-451191/4

Matrix: Water

Analysis Batch: 451191

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

			Spike	LCS	LCS						
Analyte			Added	Result	Qualifier	Unit	D	%Rec	%Rec	Limits	
Ethylbenzene			5.00	5.12		ug/L		102		80 - 120	
m-Xylene & p-Xylene			5.00	5.12		ug/L		102		80 - 120	
Xylenes, Total			10.0	10.1		ug/L		101		80 - 120	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Toluene-d8 (Surr)	99		80 - 120
1,2-Dichloroethane-d4 (Surr)	96		80 - 120
4-Bromofluorobenzene (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	99		80 - 120

Lab Sample ID: LCSD 580-451191/5

Matrix: Water

Analysis Batch: 451191

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

	Spike	LCSD	LCSD							
Analyte	Added	Result	Qualifier	Unit	D	%Rec	%Rec	Limits	RPD	RPD Limit
Ethylbenzene	5.00	5.03		ug/L		101		80 - 120	2	14
m-Xylene & p-Xylene	5.00	4.97		ug/L		99		80 - 120	3	14
Xylenes, Total	10.0	9.92		ug/L		99		80 - 120	2	16

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
Toluene-d8 (Surr)	98		80 - 120
1,2-Dichloroethane-d4 (Surr)	97		80 - 120
4-Bromofluorobenzene (Surr)	102		80 - 120
Dibromofluoromethane (Surr)	100		80 - 120

Eurofins Seattle

QC Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-136479-1

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

Lab Sample ID: MB 580-451873/11

Matrix: Water

Analysis Batch: 451873

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.24	ug/L			02/20/24 15:59	1
Toluene	ND		1.0	0.39	ug/L			02/20/24 15:59	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/20/24 15:59	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			02/20/24 15:59	1
o-Xylene	ND		1.0	0.39	ug/L			02/20/24 15:59	1
Xylenes, Total	ND		2.0	0.53	ug/L			02/20/24 15:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120		02/20/24 15:59	1
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		02/20/24 15:59	1
4-Bromofluorobenzene (Surr)	103		80 - 120		02/20/24 15:59	1
Dibromofluoromethane (Surr)	102		80 - 120		02/20/24 15:59	1

Lab Sample ID: LCS 580-451873/6

Matrix: Water

Analysis Batch: 451873

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	10.0	10.0		ug/L		100	80 - 122
Toluene	10.0	10.7		ug/L		107	80 - 120
Ethylbenzene	10.0	10.9		ug/L		109	80 - 120
m-Xylene & p-Xylene	10.0	11.0		ug/L		110	80 - 120
o-Xylene	10.0	11.3		ug/L		113	80 - 120
Xylenes, Total	20.0	22.3		ug/L		112	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	105		80 - 120
1,2-Dichloroethane-d4 (Surr)	107		80 - 120
4-Bromofluorobenzene (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	104		80 - 120

Lab Sample ID: LCSD 580-451873/7

Matrix: Water

Analysis Batch: 451873

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	10.0	9.87		ug/L		99	80 - 122	2	14
Toluene	10.0	10.2		ug/L		102	80 - 120	6	13
Ethylbenzene	10.0	10.5		ug/L		105	80 - 120	4	14
m-Xylene & p-Xylene	10.0	10.3		ug/L		103	80 - 120	7	14
o-Xylene	10.0	10.8		ug/L		108	80 - 120	5	16
Xylenes, Total	20.0	21.1		ug/L		106	80 - 120	6	16

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	101		80 - 120
1,2-Dichloroethane-d4 (Surr)	105		80 - 120
4-Bromofluorobenzene (Surr)	98		80 - 120

Eurofins Seattle

QC Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-136479-1

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

Lab Sample ID: LCSD 580-451873/7

Matrix: Water

Analysis Batch: 451873

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	101		80 - 120

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Lab Sample ID: MB 580-451142/11

Matrix: Water

Analysis Batch: 451142

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	Result	Qualifier							
	ND		100	14	ug/L			02/13/24 00:19	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
%Recovery	Qualifier					
4-Bromofluorobenzene (Surr)	103		77 - 123		02/13/24 00:19	1

Lab Sample ID: LCS 580-451142/8

Matrix: Water

Analysis Batch: 451142

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
Gasoline	Added	Result	Qualifier				Limits
	1000	1020		ug/L		102	55 - 148

Surrogate	LCS	LCS	Limits
%Recovery	Qualifier		
4-Bromofluorobenzene (Surr)	102		77 - 123

Lab Sample ID: LCSD 580-451142/9

Matrix: Water

Analysis Batch: 451142

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
Gasoline	Added	Result	Qualifier				Limits	RPD	Limit
	1000	989		ug/L		99	55 - 148	3	10

Surrogate	LCSD	LCSD	Limits
%Recovery	Qualifier		
4-Bromofluorobenzene (Surr)	103		77 - 123

Lab Sample ID: MB 580-451869/11

Matrix: Water

Analysis Batch: 451869

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	Result	Qualifier							
	ND		100	14	ug/L			02/20/24 15:59	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
%Recovery	Qualifier					
4-Bromofluorobenzene (Surr)	103		77 - 123		02/20/24 15:59	1

Eurofins Seattle

QC Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-136479-1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS) (Continued)

Lab Sample ID: LCS 580-451869/8

Matrix: Water

Analysis Batch: 451869

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline			1000	1090		ug/L		109	55 - 148		
Surrogate	LCS	LCS									
	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	101		77 - 123								

Lab Sample ID: LCSD 580-451869/9

Matrix: Water

Analysis Batch: 451869

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analysis Date: 10/1/00											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline			1000	1120		ug/L	-	112	55 - 148	3	10
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	99		77 - 123								

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 580-451074/1-A

Matrix: Water

Analysis Batch: 451187

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 451074

Analysis Date: 10/1/24							Rep Date: 10/1/24		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.50	0.16	ug/L		02/12/24 08:44	02/13/24 14:09	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Terphenyl-d14	86		29 - 150				02/12/24 08:44	02/13/24 14:09	1

Lab Sample ID: LCS 580-451074/2-A

Matrix: Water

Analysis Batch: 451187

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 451074

Analysis Data: 451167				Trip Data: 451167							
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Naphthalene			12.0	8.52		ug/L		71	34 - 120		
Surrogate	LCS %Recovery	LCS Qualifier	Limits								
Terphenyl-d14	85		29 - 150								

Lab Sample ID: LCSD 580-451074/3-A

Matrix: Water

Analysis Batch: 451187

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 451074

Rep Data: 10/14/14							Rep Data: 10/14/14				
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Naphthalene			12.0	7.28		ug/L	-	61	34 - 120	16	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
Terphenyl-d14	76		29 - 150								

Eurofins Seattle

QC Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-136479-1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-451153/1-A

Matrix: Water

Analysis Batch: 451309

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 451153

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		110	65	ug/L		02/13/24 08:24	02/14/24 12:48	1
Motor Oil (>C24-C36)	ND		350	96	ug/L		02/13/24 08:24	02/14/24 12:48	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	84		50 - 150				02/13/24 08:24	02/14/24 12:48	1

Lab Sample ID: LCS 580-451153/2-A

Matrix: Water

Analysis Batch: 451309

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 451153

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
#2 Diesel (C10-C24)	4000	2820		ug/L		71	50 - 120	
Motor Oil (>C24-C36)	4000	3030		ug/L		76	64 - 120	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
o-Terphenyl	73		50 - 150					

Lab Sample ID: LCSD 580-451153/3-A

Matrix: Water

Analysis Batch: 451309

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 451153

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
#2 Diesel (C10-C24)	4000	2920		ug/L		73	50 - 120	3	26
Motor Oil (>C24-C36)	4000	3130		ug/L		78	64 - 120	3	24
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
o-Terphenyl	77		50 - 150						

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 580-451136/14-A

Matrix: Water

Analysis Batch: 451278

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 451136

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.20	ug/L		02/12/24 16:07	02/13/24 12:05	5

Lab Sample ID: LCS 580-451136/15-A

Matrix: Water

Analysis Batch: 451278

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 451136

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Lead	1000	1030		ug/L		103	80 - 120	

Eurofins Seattle

QC Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-136479-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 580-451136/16-A
Matrix: Water
Analysis Batch: 451278

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 451136

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	1000	1020		ug/L		102	80 - 120	1	20

Lab Sample ID: 580-136486-A-1-C MS
Matrix: Water
Analysis Batch: 451278

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 451136

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	ND		1000	972		ug/L		97	80 - 120		

Lab Sample ID: 580-136486-A-1-D MSD
Matrix: Water
Analysis Batch: 451278

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 451136

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	ND		1000	1030		ug/L		103	80 - 120	6	20

Lab Sample ID: 580-136486-A-1-B DU
Matrix: Water
Analysis Batch: 451278

Client Sample ID: Duplicate
Prep Type: Total Recoverable
Prep Batch: 451136

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	ND		ND		ug/L		NC	20

Lab Sample ID: MB 580-451138/9-B
Matrix: Water
Analysis Batch: 451398

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 451264

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.20	ug/L		02/13/24 16:44	02/15/24 01:19	5

Lab Sample ID: LCS 580-451138/10-B
Matrix: Water
Analysis Batch: 451398

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 451264

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	1000	982		ug/L		98	80 - 120		

Lab Sample ID: LCSD 580-451138/11-B
Matrix: Water
Analysis Batch: 451398

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved
Prep Batch: 451264

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	1000	994		ug/L		99	80 - 120	1	20

Lab Sample ID: 580-136479-1 MS
Matrix: Water
Analysis Batch: 451398

Client Sample ID: MW-1_20240206
Prep Type: Dissolved
Prep Batch: 451264

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	ND		1000	1020		ug/L		102	80 - 120		

Eurofins Seattle

QC Sample Results

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-136479-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: 580-136479-1 MSD
Matrix: Water
Analysis Batch: 451398

Client Sample ID: MW-1_20240206
Prep Type: Dissolved
Prep Batch: 451264

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	ND		1000	1000		ug/L		100	80 - 120	1	20

Lab Sample ID: 580-136479-1 DU
Matrix: Water
Analysis Batch: 451398

Client Sample ID: MW-1_20240206
Prep Type: Dissolved
Prep Batch: 451264

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	ND		ND		ug/L		NC	20

QC Association Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-136479-1

GC/MS VOA

Analysis Batch: 451142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-136479-1	MW-1_20240206	Total/NA	Water	NWTPH-Gx	
580-136479-2	MW-4_20240206	Total/NA	Water	NWTPH-Gx	
580-136479-3	MW-4_PDB_20240206	Total/NA	Water	NWTPH-Gx	
580-136479-4	MW-12_20240206	Total/NA	Water	NWTPH-Gx	
580-136479-5	MW-13_20240206	Total/NA	Water	NWTPH-Gx	
580-136479-6	MW-14_20240206	Total/NA	Water	NWTPH-Gx	
580-136479-7	MW-15_20240206	Total/NA	Water	NWTPH-Gx	
580-136479-9	Trip Blank_20240206	Total/NA	Water	NWTPH-Gx	
MB 580-451142/11	Method Blank	Total/NA	Water	NWTPH-Gx	
LCS 580-451142/8	Lab Control Sample	Total/NA	Water	NWTPH-Gx	
LCSD 580-451142/9	Lab Control Sample Dup	Total/NA	Water	NWTPH-Gx	

Analysis Batch: 451146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-136479-1	MW-1_20240206	Total/NA	Water	8260D	
580-136479-2	MW-4_20240206	Total/NA	Water	8260D	
580-136479-3	MW-4_PDB_20240206	Total/NA	Water	8260D	
580-136479-5	MW-13_20240206	Total/NA	Water	8260D	
580-136479-6	MW-14_20240206	Total/NA	Water	8260D	
580-136479-7	MW-15_20240206	Total/NA	Water	8260D	
580-136479-9	Trip Blank_20240206	Total/NA	Water	8260D	
MB 580-451146/11	Method Blank	Total/NA	Water	8260D	
LCS 580-451146/6	Lab Control Sample	Total/NA	Water	8260D	
LCSD 580-451146/7	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 451191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-136479-6 - DL	MW-14_20240206	Total/NA	Water	8260D	
580-136479-7 - RA	MW-15_20240206	Total/NA	Water	8260D	
MB 580-451191/7	Method Blank	Total/NA	Water	8260D	
LCS 580-451191/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 580-451191/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 451869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-136479-8	MW-16_20240206	Total/NA	Water	NWTPH-Gx	
MB 580-451869/11	Method Blank	Total/NA	Water	NWTPH-Gx	
LCS 580-451869/8	Lab Control Sample	Total/NA	Water	NWTPH-Gx	
LCSD 580-451869/9	Lab Control Sample Dup	Total/NA	Water	NWTPH-Gx	

Analysis Batch: 451873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-136479-8	MW-16_20240206	Total/NA	Water	8260D	
MB 580-451873/11	Method Blank	Total/NA	Water	8260D	
LCS 580-451873/6	Lab Control Sample	Total/NA	Water	8260D	
LCSD 580-451873/7	Lab Control Sample Dup	Total/NA	Water	8260D	

QC Association Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-136479-1

GC/MS Semi VOA

Prep Batch: 451074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-136479-5	MW-13_20240206	Total/NA	Water	3510C	
580-136479-6	MW-14_20240206	Total/NA	Water	3510C	
580-136479-7	MW-15_20240206	Total/NA	Water	3510C	
580-136479-8	MW-16_20240206	Total/NA	Water	3510C	
MB 580-451074/1-A	Method Blank	Total/NA	Water	3510C	
LCS 580-451074/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 580-451074/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 451187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-136479-5	MW-13_20240206	Total/NA	Water	8270E SIM	451074
580-136479-6	MW-14_20240206	Total/NA	Water	8270E SIM	451074
580-136479-7	MW-15_20240206	Total/NA	Water	8270E SIM	451074
580-136479-8	MW-16_20240206	Total/NA	Water	8270E SIM	451074
MB 580-451074/1-A	Method Blank	Total/NA	Water	8270E SIM	451074
LCS 580-451074/2-A	Lab Control Sample	Total/NA	Water	8270E SIM	451074
LCSD 580-451074/3-A	Lab Control Sample Dup	Total/NA	Water	8270E SIM	451074

GC Semi VOA

Prep Batch: 451153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-136479-1	MW-1_20240206	Total/NA	Water	3510C	
580-136479-2	MW-4_20240206	Total/NA	Water	3510C	
580-136479-3	MW-4_PDB_20240206	Total/NA	Water	3510C	
580-136479-4	MW-12_20240206	Total/NA	Water	3510C	
580-136479-5	MW-13_20240206	Total/NA	Water	3510C	
580-136479-6	MW-14_20240206	Total/NA	Water	3510C	
580-136479-7	MW-15_20240206	Total/NA	Water	3510C	
580-136479-8	MW-16_20240206	Total/NA	Water	3510C	
MB 580-451153/1-A	Method Blank	Total/NA	Water	3510C	
LCS 580-451153/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 580-451153/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 451309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-136479-1	MW-1_20240206	Total/NA	Water	NWTPH-Dx	451153
580-136479-2	MW-4_20240206	Total/NA	Water	NWTPH-Dx	451153
580-136479-3	MW-4_PDB_20240206	Total/NA	Water	NWTPH-Dx	451153
580-136479-4	MW-12_20240206	Total/NA	Water	NWTPH-Dx	451153
580-136479-5	MW-13_20240206	Total/NA	Water	NWTPH-Dx	451153
580-136479-6	MW-14_20240206	Total/NA	Water	NWTPH-Dx	451153
580-136479-7	MW-15_20240206	Total/NA	Water	NWTPH-Dx	451153
580-136479-8	MW-16_20240206	Total/NA	Water	NWTPH-Dx	451153
MB 580-451153/1-A	Method Blank	Total/NA	Water	NWTPH-Dx	451153
LCS 580-451153/2-A	Lab Control Sample	Total/NA	Water	NWTPH-Dx	451153
LCSD 580-451153/3-A	Lab Control Sample Dup	Total/NA	Water	NWTPH-Dx	451153

QC Association Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-136479-1

Metals

Prep Batch: 451136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-136479-1	MW-1_20240206	Total Recoverable	Water	3005A	
580-136479-2	MW-4_20240206	Total Recoverable	Water	3005A	
580-136479-3	MW-4_PDB_20240206	Total Recoverable	Water	3005A	
580-136479-4	MW-12_20240206	Total Recoverable	Water	3005A	
580-136479-5	MW-13_20240206	Total Recoverable	Water	3005A	
580-136479-6	MW-14_20240206	Total Recoverable	Water	3005A	
580-136479-7	MW-15_20240206	Total Recoverable	Water	3005A	
580-136479-8	MW-16_20240206	Total Recoverable	Water	3005A	
MB 580-451136/14-A	Method Blank	Total Recoverable	Water	3005A	
LCS 580-451136/15-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 580-451136/16-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	
580-136486-A-1-C MS	Matrix Spike	Total Recoverable	Water	3005A	
580-136486-A-1-D MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	
580-136486-A-1-B DU	Duplicate	Total Recoverable	Water	3005A	

Filtration Batch: 451138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-136479-1	MW-1_20240206	Dissolved	Water	FILTRATION	
580-136479-2	MW-4_20240206	Dissolved	Water	FILTRATION	
580-136479-3	MW-4_PDB_20240206	Dissolved	Water	FILTRATION	
580-136479-4	MW-12_20240206	Dissolved	Water	FILTRATION	
580-136479-5	MW-13_20240206	Dissolved	Water	FILTRATION	
580-136479-6	MW-14_20240206	Dissolved	Water	FILTRATION	
580-136479-7	MW-15_20240206	Dissolved	Water	FILTRATION	
580-136479-8	MW-16_20240206	Dissolved	Water	FILTRATION	
MB 580-451138/9-B	Method Blank	Dissolved	Water	FILTRATION	
LCS 580-451138/10-B	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 580-451138/11-B	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
580-136479-1 MS	MW-1_20240206	Dissolved	Water	FILTRATION	
580-136479-1 MSD	MW-1_20240206	Dissolved	Water	FILTRATION	
580-136479-1 DU	MW-1_20240206	Dissolved	Water	FILTRATION	

Prep Batch: 451264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-136479-1	MW-1_20240206	Dissolved	Water	3005A	451138
580-136479-2	MW-4_20240206	Dissolved	Water	3005A	451138
580-136479-3	MW-4_PDB_20240206	Dissolved	Water	3005A	451138
580-136479-4	MW-12_20240206	Dissolved	Water	3005A	451138
580-136479-5	MW-13_20240206	Dissolved	Water	3005A	451138
580-136479-6	MW-14_20240206	Dissolved	Water	3005A	451138
580-136479-7	MW-15_20240206	Dissolved	Water	3005A	451138
580-136479-8	MW-16_20240206	Dissolved	Water	3005A	451138
MB 580-451138/9-B	Method Blank	Dissolved	Water	3005A	451138
LCS 580-451138/10-B	Lab Control Sample	Dissolved	Water	3005A	451138
LCSD 580-451138/11-B	Lab Control Sample Dup	Dissolved	Water	3005A	451138
580-136479-1 MS	MW-1_20240206	Dissolved	Water	3005A	451138
580-136479-1 MSD	MW-1_20240206	Dissolved	Water	3005A	451138
580-136479-1 DU	MW-1_20240206	Dissolved	Water	3005A	451138

QC Association Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-136479-1

Metals

Analysis Batch: 451278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-136479-1	MW-1_20240206	Total Recoverable	Water	6020B	451136
580-136479-2	MW-4_20240206	Total Recoverable	Water	6020B	451136
580-136479-3	MW-4_PDB_20240206	Total Recoverable	Water	6020B	451136
580-136479-4	MW-12_20240206	Total Recoverable	Water	6020B	451136
580-136479-5	MW-13_20240206	Total Recoverable	Water	6020B	451136
580-136479-6	MW-14_20240206	Total Recoverable	Water	6020B	451136
580-136479-7	MW-15_20240206	Total Recoverable	Water	6020B	451136
580-136479-8	MW-16_20240206	Total Recoverable	Water	6020B	451136
MB 580-451136/14-A	Method Blank	Total Recoverable	Water	6020B	451136
LCS 580-451136/15-A	Lab Control Sample	Total Recoverable	Water	6020B	451136
LCSD 580-451136/16-A	Lab Control Sample Dup	Total Recoverable	Water	6020B	451136
580-136486-A-1-C MS	Matrix Spike	Total Recoverable	Water	6020B	451136
580-136486-A-1-D MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	451136
580-136486-A-1-B DU	Duplicate	Total Recoverable	Water	6020B	451136

Analysis Batch: 451398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-136479-1	MW-1_20240206	Dissolved	Water	6020B	451264
580-136479-2	MW-4_20240206	Dissolved	Water	6020B	451264
580-136479-3	MW-4_PDB_20240206	Dissolved	Water	6020B	451264
580-136479-4	MW-12_20240206	Dissolved	Water	6020B	451264
580-136479-5	MW-13_20240206	Dissolved	Water	6020B	451264
580-136479-6	MW-14_20240206	Dissolved	Water	6020B	451264
580-136479-7	MW-15_20240206	Dissolved	Water	6020B	451264
580-136479-8	MW-16_20240206	Dissolved	Water	6020B	451264
MB 580-451138/9-B	Method Blank	Dissolved	Water	6020B	451264
LCS 580-451138/10-B	Lab Control Sample	Dissolved	Water	6020B	451264
LCSD 580-451138/11-B	Lab Control Sample Dup	Dissolved	Water	6020B	451264
580-136479-1 MS	MW-1_20240206	Dissolved	Water	6020B	451264
580-136479-1 MSD	MW-1_20240206	Dissolved	Water	6020B	451264
580-136479-1 DU	MW-1_20240206	Dissolved	Water	6020B	451264

Lab Chronicle

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-136479-1

Client Sample ID: MW-1_20240206

Lab Sample ID: 580-136479-1

Date Collected: 02/06/24 10:10

Matrix: Water

Date Received: 02/09/24 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	451146	JBT	EET SEA	02/13/24 03:11
Total/NA	Analysis	NWTPH-Gx		1	451142	JBT	EET SEA	02/13/24 03:11
Total/NA	Prep	3510C			451153	SL	EET SEA	02/13/24 08:24
Total/NA	Analysis	NWTPH-Dx		1	451309	KLW	EET SEA	02/14/24 15:48
Dissolved	Filtration	FILTRATION			451138	JL	EET SEA	02/12/24 17:00
Dissolved	Prep	3005A			451264	TMH	EET SEA	02/13/24 16:44
Dissolved	Analysis	6020B		5	451398	TMH	EET SEA	02/15/24 01:22
Total Recoverable	Prep	3005A			451136	AUA	EET SEA	02/12/24 16:07
Total Recoverable	Analysis	6020B		5	451278	FCW	EET SEA	02/13/24 12:47

Client Sample ID: MW-4_20240206

Lab Sample ID: 580-136479-2

Date Collected: 02/06/24 11:30

Matrix: Water

Date Received: 02/09/24 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	451146	JBT	EET SEA	02/13/24 03:33
Total/NA	Analysis	NWTPH-Gx		1	451142	JBT	EET SEA	02/13/24 03:33
Total/NA	Prep	3510C			451153	SL	EET SEA	02/13/24 08:24
Total/NA	Analysis	NWTPH-Dx		1	451309	KLW	EET SEA	02/14/24 16:08
Dissolved	Filtration	FILTRATION			451138	JL	EET SEA	02/12/24 17:00
Dissolved	Prep	3005A			451264	TMH	EET SEA	02/13/24 16:44
Dissolved	Analysis	6020B		5	451398	TMH	EET SEA	02/15/24 01:55
Total Recoverable	Prep	3005A			451136	AUA	EET SEA	02/12/24 16:07
Total Recoverable	Analysis	6020B		5	451278	FCW	EET SEA	02/13/24 13:06

Client Sample ID: MW-4_PDB_20240206

Lab Sample ID: 580-136479-3

Date Collected: 02/06/24 10:35

Matrix: Water

Date Received: 02/09/24 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	451146	JBT	EET SEA	02/13/24 03:54
Total/NA	Analysis	NWTPH-Gx		1	451142	JBT	EET SEA	02/13/24 03:54
Total/NA	Prep	3510C			451153	SL	EET SEA	02/13/24 08:24
Total/NA	Analysis	NWTPH-Dx		1	451309	KLW	EET SEA	02/14/24 16:29
Dissolved	Filtration	FILTRATION			451138	JL	EET SEA	02/12/24 17:00
Dissolved	Prep	3005A			451264	TMH	EET SEA	02/13/24 16:44
Dissolved	Analysis	6020B		5	451398	TMH	EET SEA	02/15/24 01:57
Total Recoverable	Prep	3005A			451136	AUA	EET SEA	02/12/24 16:07
Total Recoverable	Analysis	6020B		5	451278	FCW	EET SEA	02/13/24 12:53

Lab Chronicle

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-136479-1

Client Sample ID: MW-12_20240206

Lab Sample ID: 580-136479-4

Date Collected: 02/06/24 13:05

Matrix: Water

Date Received: 02/09/24 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NWTPH-Gx		1	451142	JBT	EET SEA	02/13/24 07:34
Total/NA	Prep	3510C			451153	SL	EET SEA	02/13/24 08:24
Total/NA	Analysis	NWTPH-Dx		1	451309	KLW	EET SEA	02/14/24 16:49
Dissolved	Filtration	FILTRATION			451138	JL	EET SEA	02/12/24 17:00
Dissolved	Prep	3005A			451264	TMH	EET SEA	02/13/24 16:44
Dissolved	Analysis	6020B		5	451398	TMH	EET SEA	02/15/24 02:00
Total Recoverable	Prep	3005A			451136	AUA	EET SEA	02/12/24 16:07
Total Recoverable	Analysis	6020B		5	451278	FCW	EET SEA	02/13/24 12:55

Client Sample ID: MW-13_20240206

Lab Sample ID: 580-136479-5

Date Collected: 02/06/24 14:20

Matrix: Water

Date Received: 02/09/24 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	451146	JBT	EET SEA	02/13/24 04:16
Total/NA	Analysis	NWTPH-Gx		1	451142	JBT	EET SEA	02/13/24 04:16
Total/NA	Prep	3510C			451074	SL	EET SEA	02/12/24 08:44
Total/NA	Analysis	8270E SIM		1	451187	K1K	EET SEA	02/13/24 21:37
Total/NA	Prep	3510C			451153	SL	EET SEA	02/13/24 08:24
Total/NA	Analysis	NWTPH-Dx		1	451309	KLW	EET SEA	02/14/24 17:10
Dissolved	Filtration	FILTRATION			451138	JL	EET SEA	02/12/24 17:00
Dissolved	Prep	3005A			451264	TMH	EET SEA	02/13/24 16:44
Dissolved	Analysis	6020B		5	451398	TMH	EET SEA	02/15/24 02:03
Total Recoverable	Prep	3005A			451136	AUA	EET SEA	02/12/24 16:07
Total Recoverable	Analysis	6020B		5	451278	FCW	EET SEA	02/13/24 12:58

Client Sample ID: MW-14_20240206

Lab Sample ID: 580-136479-6

Date Collected: 02/06/24 13:45

Matrix: Water

Date Received: 02/09/24 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	451146	JBT	EET SEA	02/13/24 04:38
Total/NA	Analysis	8260D	DL	10	451191	K1K	EET SEA	02/13/24 21:44
Total/NA	Analysis	NWTPH-Gx		1	451142	JBT	EET SEA	02/13/24 04:38
Total/NA	Prep	3510C			451074	SL	EET SEA	02/12/24 08:44
Total/NA	Analysis	8270E SIM		1	451187	K1K	EET SEA	02/13/24 22:01
Total/NA	Prep	3510C			451153	SL	EET SEA	02/13/24 08:24
Total/NA	Analysis	NWTPH-Dx		1	451309	KLW	EET SEA	02/14/24 17:30
Dissolved	Filtration	FILTRATION			451138	JL	EET SEA	02/12/24 17:00
Dissolved	Prep	3005A			451264	TMH	EET SEA	02/13/24 16:44
Dissolved	Analysis	6020B		5	451398	TMH	EET SEA	02/15/24 02:06
Total Recoverable	Prep	3005A			451136	AUA	EET SEA	02/12/24 16:07
Total Recoverable	Analysis	6020B		5	451278	FCW	EET SEA	02/13/24 13:01

Eurofins Seattle

Lab Chronicle

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-136479-1

Client Sample ID: MW-15_20240206

Lab Sample ID: 580-136479-7

Date Collected: 02/06/24 12:10

Matrix: Water

Date Received: 02/09/24 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	451146	JBT	EET SEA	02/13/24 05:00
Total/NA	Analysis	8260D	RA	1	451191	K1K	EET SEA	02/13/24 21:20
Total/NA	Analysis	NWTPH-Gx		1	451142	JBT	EET SEA	02/13/24 05:00
Total/NA	Prep	3510C			451074	SL	EET SEA	02/12/24 08:44
Total/NA	Analysis	8270E SIM		1	451187	K1K	EET SEA	02/13/24 22:26
Total/NA	Prep	3510C			451153	SL	EET SEA	02/13/24 11:35
Total/NA	Analysis	NWTPH-Dx		1	451309	KLW	EET SEA	02/14/24 17:51
Dissolved	Filtration	FILTRATION			451138	JL	EET SEA	02/12/24 17:00
Dissolved	Prep	3005A			451264	TMH	EET SEA	02/13/24 16:44
Dissolved	Analysis	6020B		5	451398	TMH	EET SEA	02/15/24 02:08
Total Recoverable	Prep	3005A			451136	AUA	EET SEA	02/12/24 16:07
Total Recoverable	Analysis	6020B		5	451278	FCW	EET SEA	02/13/24 13:04

Client Sample ID: MW-16_20240206

Lab Sample ID: 580-136479-8

Date Collected: 02/06/24 09:25

Matrix: Water

Date Received: 02/09/24 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	451873	JBT	EET SEA	02/20/24 23:13
Total/NA	Analysis	NWTPH-Gx		1	451869	JBT	EET SEA	02/20/24 23:13
Total/NA	Prep	3510C			451074	SL	EET SEA	02/12/24 08:44
Total/NA	Analysis	8270E SIM		1	451187	K1K	EET SEA	02/13/24 22:51
Total/NA	Prep	3510C			451153	SL	EET SEA	02/13/24 08:24
Total/NA	Analysis	NWTPH-Dx		1	451309	KLW	EET SEA	02/14/24 18:11
Dissolved	Filtration	FILTRATION			451138	JL	EET SEA	02/12/24 17:00
Dissolved	Prep	3005A			451264	TMH	EET SEA	02/13/24 16:44
Dissolved	Analysis	6020B		5	451398	TMH	EET SEA	02/15/24 02:11
Total Recoverable	Prep	3005A			451136	AUA	EET SEA	02/12/24 16:07
Total Recoverable	Analysis	6020B		5	451278	FCW	EET SEA	02/13/24 12:50

Client Sample ID: Trip Blank_20240206

Lab Sample ID: 580-136479-9

Date Collected: 02/06/24 00:00

Matrix: Water

Date Received: 02/09/24 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	451146	JBT	EET SEA	02/13/24 01:02
Total/NA	Analysis	NWTPH-Gx		1	451142	JBT	EET SEA	02/13/24 01:02

Laboratory References:

EET SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Eurofins Seattle

Accreditation/Certification Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-136479-1

Laboratory: Eurofins Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-24

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Method Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-136479-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SEA
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC/MS)	NWTPH	EET SEA
8270E SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	EET SEA
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	EET SEA
6020B	Metals (ICP/MS)	SW846	EET SEA
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SEA
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET SEA
5030B	Purge and Trap	SW846	EET SEA
FILTRATION	Sample Filtration	None	EET SEA

Protocol References:

None = None

NWTPH = Northwest Total Petroleum Hydrocarbon

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: Antea USA Inc.
Project/Site: BP - ARCO 11060

Job ID: 580-136479-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-136479-1	MW-1_20240206	Water	02/06/24 10:10	02/09/24 15:45
580-136479-2	MW-4_20240206	Water	02/06/24 11:30	02/09/24 15:45
580-136479-3	MW-4_PDB_20240206	Water	02/06/24 10:35	02/09/24 15:45
580-136479-4	MW-12_20240206	Water	02/06/24 13:05	02/09/24 15:45
580-136479-5	MW-13_20240206	Water	02/06/24 14:20	02/09/24 15:45
580-136479-6	MW-14_20240206	Water	02/06/24 13:45	02/09/24 15:45
580-136479-7	MW-15_20240206	Water	02/06/24 12:10	02/09/24 15:45
580-136479-8	MW-16_20240206	Water	02/06/24 09:25	02/09/24 15:45
580-136479-9	Trip Blank_20240206	Water	02/06/24 00:00	02/09/24 15:45

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Laboratory Management Program (LaMP) Chain of Custody Record
Soil, Sediment and Groundwater Samples

Page 1 of 1

BP Site Node Path: Former BP 11060

Req Due Date (mm/dd/yy): Standard TAT

Rush TAT Yes No X

BP/RM Facility No: Former BP Facility No. 11060

Lab Work Order Number:

[illegible]

BP LaMP Soil/H2O COC July 2018

Login Sample Receipt Checklist

Client: Antea USA Inc.

Job Number: 580-136479-1

Login Number: 136479

List Source: Eurofins Seattle

List Number: 1

Creator: Groves, Elizabeth

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-136479-1

SDG No.: _____

Batch Number: 451146 Batch Start Date: 02/12/24 21:06 Batch Analyst: Tucker, Jonathon B

Batch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	5X SUR/IS 00038	VOAMasterSEC 00088	
LCS 580-451146/6		8260D		5 mL	5 mL		5 uL	10 uL	
LCSD 580-451146/7		8260D		5 mL	5 mL		5 uL	10 uL	
MB 580-451146/11		8260D		5 mL	5 mL		5 uL		
580-136479-A-9	Trip Blank 20240206	8260D	T	5 mL	5 mL	<2 SU	5 uL		
580-136479-A-1	MW-1_20240206	8260D	T	5 mL	5 mL	<2 SU	5 uL		
580-136479-A-2	MW-4_20240206	8260D	T	5 mL	5 mL	<2 SU	5 uL		
580-136479-A-3	MW-4_PDB_20240206	8260D	T	5 mL	5 mL	<2 SU	5 uL		
580-136479-A-5	MW-13_20240206	8260D	T	5 mL	5 mL	<2 SU	5 uL		
580-136479-A-6	MW-14_20240206	8260D	T	5 mL	5 mL	<2 SU	5 uL		
580-136479-A-7	MW-15_20240206	8260D	T	5 mL	5 mL	<2 SU	5 uL		

Batch Notes	
pH Indicator ID	206722
Vial Lot Number	0112201I

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-136479-1

SDG No.:

Batch Number: 451191 Batch Start Date: 02/13/24 12:51 Batch Analyst: Klongnganchui, Kanjana 1

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	5X SUR/IS 00038	VOAMasterSEC 00088	
LCS 580-451191/4		8260D		10 mL	10 mL		10 uL	5 uL	
LCSD 580-451191/5		8260D		10 mL	10 mL		10 uL	5 uL	
MB 580-451191/7		8260D		10 mL	10 mL		10 uL		
580-136479-B-7	MW-15_20240206	8260D	T	10 mL	10 mL	<2 SU	10 uL		
580-136479-B-6	MW-14_20240206	8260D	T	10 mL	10 mL	<2 SU	10 uL		

Batch Notes	
pH Indicator ID	206722
Vial Lot Number	0112201I

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-136479-1

SDG No.:

Batch Number: 451873 Batch Start Date: 02/20/24 12:43 Batch Analyst: Tucker, Jonathon B

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	5X SUR/IS 00038	VOAMasterSEC 00088	
LCS 580-451873/6		8260D		5 mL	5 mL		5 uL	10 uL	
LCSD 580-451873/7		8260D		5 mL	5 mL		5 uL	10 uL	
MB 580-451873/11		8260D		5 mL	5 mL		5 uL		
580-136479-D-8	MW-16_20240206	8260D	T	5 mL	5 mL	<2 SU	5 uL		

Batch Notes	
pH Indicator ID	206722
Vial Lot Number	0112201I

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-136479-1

SDG No.:

Batch Number: 451142 Batch Start Date: 02/12/24 21:06 Batch Analyst: Tucker, Jonathon B

Batch Method: NWTPH-Gx Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	5X SUR/IS 00038	GRO_LCS 00094	
LCS 580-451142/8		NWTPH-Gx		5 mL	5 mL		5 uL	25 uL	
LCSD 580-451142/9		NWTPH-Gx		5 mL	5 mL		5 uL	25 uL	
MB 580-451142/11		NWTPH-Gx		5 mL	5 mL		5 uL		
580-136479-A-9	Trip Blank 20240206	NWTPH-Gx	T	5 mL	5 mL	<2 SU	5 uL		
580-136479-A-1	MW-1_20240206	NWTPH-Gx	T	5 mL	5 mL	<2 SU	5 uL		
580-136479-A-2	MW-4_20240206	NWTPH-Gx	T	5 mL	5 mL	<2 SU	5 uL		
580-136479-A-3	MW-4_PDB_20240206	NWTPH-Gx	T	5 mL	5 mL	<2 SU	5 uL		
580-136479-A-5	MW-13_20240206	NWTPH-Gx	T	5 mL	5 mL	<2 SU	5 uL		
580-136479-A-6	MW-14_20240206	NWTPH-Gx	T	5 mL	5 mL	<2 SU	5 uL		
580-136479-A-7	MW-15_20240206	NWTPH-Gx	T	5 mL	5 mL	<2 SU	5 uL		
580-136479-A-4	MW-12_20240206	NWTPH-Gx	T	5 mL	5 mL	<2 SU	5 uL		

Batch Notes	
pH Indicator ID	206722
Vial Lot Number	0112201I

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-136479-1

SDG No.:

Batch Number: 451869 Batch Start Date: 02/20/24 12:43 Batch Analyst: Tucker, Jonathon B

Batch Method: NWTPH-Gx Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	5X SUR/IS 00038	GRO_LCS 00094	
LCS 580-451869/8		NWTPH-Gx		5 mL	5 mL		5 uL	25 uL	
LCSD 580-451869/9		NWTPH-Gx		5 mL	5 mL		5 uL	25 uL	
MB 580-451869/11		NWTPH-Gx		5 mL	5 mL		5 uL		
580-136479-D-8	MW-16_20240206	NWTPH-Gx	T	5 mL	5 mL	<2 SU	5 uL		

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins SeattleJob No.: 580-136479-1

SDG No.: _____

Batch Number: 451074Batch Start Date: 02/12/24 08:44Batch Analyst: Ledesma, SantiagoBatch Method: 3510CBatch End Date: 02/12/24 14:18

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 580-451074/1		3510C, 8270E SIM				250 mL	1 mL	7 SU	2 SU
LCS 580-451074/2		3510C, 8270E SIM				250 mL	1 mL	7 SU	2 SU
LCSD 580-451074/3		3510C, 8270E SIM				250 mL	1 mL	7 SU	2 SU
580-136479-I-5	MW-13_20240206	3510C, 8270E SIM	T	00409.51 g	00166.83 g	242.7 mL	1 mL	7 SU	2 SU
580-136479-I-6	MW-14_20240206	3510C, 8270E SIM	T	00406.21 g	00167.52 g	238.7 mL	1 mL	7 SU	2 SU
580-136479-I-7	MW-15_20240206	3510C, 8270E SIM	T	00410.60 g	00168.38 g	242.2 mL	1 mL	7 SU	2 SU
580-136479-I-8	MW-16_20240206	3510C, 8270E SIM	T	00410.81 g	00166.37 g	244.4 mL	1 mL	7 SU	2 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	8270water_spk 00032	8270waterSurr 00150			
MB 580-451074/1		3510C, 8270E SIM		n/a SU		100 uL			
LCS 580-451074/2		3510C, 8270E SIM		n/a SU	50 uL	100 uL			
LCSD 580-451074/3		3510C, 8270E SIM		n/a SU	50 uL	100 uL			
580-136479-I-5	MW-13_20240206	3510C, 8270E SIM	T	n/a SU		100 uL			
580-136479-I-6	MW-14_20240206	3510C, 8270E SIM	T	n/a SU		100 uL			
580-136479-I-7	MW-15_20240206	3510C, 8270E SIM	T	n/a SU		100 uL			
580-136479-I-8	MW-16_20240206	3510C, 8270E SIM	T	n/a SU		100 uL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8270E SIM

Page 1 of 2

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins SeattleJob No.: 580-136479-1

SDG No.: _____

Batch Number: 451074Batch Start Date: 02/12/24 08:44Batch Analyst: Ledesma, SantiagoBatch Method: 3510CBatch End Date: 02/12/24 14:18

Batch Notes	
Method/Fraction	3510C_LVI/8270E_SIM
Balance ID	SEA225
Balance is Level? (Y/N)	yes
pH Indicator ID	10BDH3421
Pipette/Syringe/Dispenser ID	E4/E3
Analyst ID - Extraction	EF/SL/MR
Reagent Water ID	DI
Analyst ID - Spike Analyst	SL
Analyst ID - Spike Witness Analyst	EF/MR
Sufficient Volume for Batch QC	no
Acid Used for pH Adjustment ID	224621
Prep Solvent ID	MeCl2_CT_00272
Prep Solvent Volume Used	100 mL
Filter ID	09-790-12F
Na2SO4 ID	Baked Na2SO4_00484
Analyst ID - Concentration	SL
Equipment ID - Concentration 1	Steambath 1
Thermometer ID - Concentration 1	61013-040-1
Concentration 1 Uncorrected Temperature	70.0-75.0 Degrees C
Concentration 1 Corrected Temperature	69.4-74.4 Degrees C
Equipment ID - Concentration 2	Turbovap 5
Thermometer ID - Concentration 2	DIGITALREADOUT
Concentration 2 Uncorrected Temperature	44 Degrees C
Concentration 2 Corrected Temperature	40 Degrees C
Vial Lot Number	22074048
Pipette Tip Lot ID	14672-200
Batch Comment	Vialed by:SL

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8270E SIM

Page 2 of 2

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins SeattleJob No.: 580-136479-1

SDG No.: _____

Batch Number: 451153Batch Start Date: 02/13/24 08:24Batch Analyst: Ledesma, SantiagoBatch Method: 3510CBatch End Date: 02/13/24 13:24

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 580-451153/1		3510C, NWTPH-Dx				250 mL	2 mL	7 SU	2 SU
LCS 580-451153/2		3510C, NWTPH-Dx				250 mL	2 mL	7 SU	2 SU
LCSD 580-451153/3		3510C, NWTPH-Dx				250 mL	2 mL	7 SU	2 SU
580-136479-H-1	MW-1_20240206	3510C, NWTPH-Dx	T	00413.19 g	00169.41 g	243.8 mL	2 mL	2 SU	n/a SU
580-136479-G-2	MW-4_20240206	3510C, NWTPH-Dx	T	00405.56 g	00168.29 g	237.3 mL	2 mL	2 SU	n/a SU
580-136479-J-3	MW-4_PDB_20240206	3510C, NWTPH-Dx	T	00393.26 g	00167.93 g	225.3 mL	2 mL	2 SU	n/a SU
580-136479-H-4	MW-12_20240206	3510C, NWTPH-Dx	T	00414.18 g	00167.45 g	246.7 mL	2 mL	2 SU	n/a SU
580-136479-H-5	MW-13_20240206	3510C, NWTPH-Dx	T	00408.87 g	00166.61 g	242.3 mL	2 mL	2 SU	n/a SU
580-136479-H-6	MW-14_20240206	3510C, NWTPH-Dx	T	00414.80 g	00167.77 g	247 mL	2 mL	2 SU	n/a SU
580-136479-H-8	MW-16_20240206	3510C, NWTPH-Dx	T	00411.58 g	00167.30 g	244.3 mL	2 mL	2 SU	n/a SU
580-136479-H-7	MW-15_20240206	3510C, NWTPH-Dx	T	00412.94 g	00168.70 g	244.2 mL	2 mL	2 SU	n/a SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	TPH_Water_Spk _00042	TPH_WaterSurr _00110			
MB 580-451153/1		3510C, NWTPH-Dx		n/a SU		100 uL			
LCS 580-451153/2		3510C, NWTPH-Dx		n/a SU	100 uL	100 uL			
LCSD 580-451153/3		3510C, NWTPH-Dx		n/a SU	100 uL	100 uL			
580-136479-H-1	MW-1_20240206	3510C, NWTPH-Dx	T	n/a SU		100 uL			
580-136479-G-2	MW-4_20240206	3510C, NWTPH-Dx	T	n/a SU		100 uL			
580-136479-J-3	MW-4_PDB_20240206	3510C, NWTPH-Dx	T	n/a SU		100 uL			
580-136479-H-4	MW-12_20240206	3510C, NWTPH-Dx	T	n/a SU		100 uL			
580-136479-H-5	MW-13_20240206	3510C, NWTPH-Dx	T	n/a SU		100 uL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

NWTPH-Dx

Page 1 of 4

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-136479-1

SDG No.: _____

Batch Number: 451153 Batch Start Date: 02/13/24 08:24 Batch Analyst: Ledesma, SantiagoBatch Method: 3510C Batch End Date: 02/13/24 13:24

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	TPH_Water_Spk 00042	TPH_WaterSurr 00110			
580-136479-H-6	MW-14_20240206	3510C, NWTPH-Dx	T	n/a SU		100 uL			
580-136479-H-8	MW-16_20240206	3510C, NWTPH-Dx	T	n/a SU		100 uL			
580-136479-H-7	MW-15_20240206	3510C, NWTPH-Dx	T	n/a SU		100 uL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

NWTPH-Dx

Page 2 of 4

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-136479-1

SDG No.: _____

Batch Number: 451153 Batch Start Date: 02/13/24 08:24 Batch Analyst: Ledesma, SantiagoBatch Method: 3510C Batch End Date: 02/13/24 13:24

Batch Notes	
Method/Fraction	3510C_LVI/NWTPH_Dx
Balance ID	SEA225
Balance is Level? (Y/N)	yes
pH Indicator ID	10BDH3421/6105009/6204001
Pipette/Syringe/Dispenser ID	E4
Analyst ID - Extraction	EF/SL
Reagent Water ID	DI
Analyst ID - Spike Analyst	SL
Analyst ID - Spike Witness Analyst	EF
Sufficient Volume for Batch QC	no
Acid Used for pH Adjustment ID	3548691
Prep Solvent ID	MeCl_CT_00272
Prep Solvent Volume Used	100 mL
Filter ID	09-790-12F
Na2SO4 ID	baked Na2SO4_00484
Analyst ID - Concentration	EF
Equipment ID - Concentration 1	Steambath 1
Thermometer ID - Concentration 1	61013-040-1
Concentration 1 Uncorrected Temperature	70.0-75.0 Degrees C
Concentration 1 Corrected Temperature	69.4-74.4 Degrees C
Equipment ID - Concentration 2	Turbovap 5
Thermometer ID - Concentration 2	DIGITAL READOUT
Concentration 2 Uncorrected Temperature	42 Degrees C
Concentration 2 Corrected Temperature	40 Degrees C
Vial Lot Number	13-09-1335
Analyst ID - Clean Up	SL
Pipette Tip Lot ID	14672-200
Batch Comment	viald by:SL

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

NWTPH-Dx

Page 3 of 4

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins SeattleJob No.: 580-136479-1

SDG No.: _____

Batch Number: 451153Batch Start Date: 02/13/24 08:24Batch Analyst: Ledesma, SantiagoBatch Method: 3510CBatch End Date: 02/13/24 13:24

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

NWTPH-Dx

Page 4 of 4

METALS BATCH WORKSHEET

Lab Name: Eurofins SeattleJob No.: 580-136479-1

SDG No.: _____

Batch Number: 451136Batch Start Date: 02/12/24 16:07Batch Analyst: Ulloa Aguilar, AshleyBatch Method: 3005ABatch End Date: 02/12/24 22:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ICP CAL 1 00028	ICP CAL 2 00029	MET Spike 3C 00048	
580-136486-A-1		3005A, 6020B	R	50 mL	50 mL				
580-136486-A-1 DU		3005A, 6020B	R	50 mL	50 mL				
580-136486-A-1 MS		3005A, 6020B	R	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
580-136486-A-1 MSD		3005A, 6020B	R	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
580-136479-J-1	MW-1_20240206	3005A, 6020B	R	50 mL	50 mL				
580-136479-L-2	MW-4_20240206	3005A, 6020B	R	50 mL	50 mL				
580-136479-H-3	MW-4_PDB_20240206	3005A, 6020B	R	50 mL	50 mL				
580-136479-J-4	MW-12_20240206	3005A, 6020B	R	50 mL	50 mL				
580-136479-L-5	MW-13_20240206	3005A, 6020B	R	50 mL	50 mL				
580-136479-L-6	MW-14_20240206	3005A, 6020B	R	50 mL	50 mL				
580-136479-L-7	MW-15_20240206	3005A, 6020B	R	50 mL	50 mL				
580-136479-L-8	MW-16_20240206	3005A, 6020B	R	50 mL	50 mL				
MB 580-451136/14		3005A, 6020B		50 mL	50 mL				
ICS 580-451136/15		3005A, 6020B		50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
LCSD 580-451136/16		3005A, 6020B		50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

6020B

Page 1 of 2

METALS BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-136479-1

SDG No.: _____

Batch Number: 451136 Batch Start Date: 02/12/24 16:07 Batch Analyst: Ulloa Aguilar, AshleyBatch Method: 3005A Batch End Date: 02/12/24 22:15

Batch Notes	
Digestion Tube/Cup ID	3686548
Pipette/Syringe/Dispenser ID	METALS-PREP-2
Analyst ID - Spike Analyst	JL
Analyst ID - Spike Witness Analyst	TH
Hydrochloric Acid ID	3692896
Nitric Acid ID	3683171
Digestion Unit ID	block a
Thermometer ID	1108438
Thermometer Location ID	a44
Temperature - Uncorrected - Start	95.0 Degrees C
Temperature - Corrected - Start	93.9 Degrees C
Digestion Start Time	02/12/2024 18:15
Digestion End Time	02/12/2024 22:15
Temperature - Uncorrected - End	95.0 Degrees C
Temperature - Corrected - End	93.9 Degrees C

Basis	Basis Description
R	Total Recoverable

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

6020B

Page 2 of 2

METALS BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-136479-1

SDG No.: _____

Batch Number: 451138 Batch Start Date: 02/12/24 17:00 Batch Analyst: Lees, Jensen

Batch Method: FILTRATION Batch End Date: 02/12/24 17:25

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount				
580-136479-I-1	MW-1_20240206	FILTRATION, 3005A, 6020B	D	250 mL	250 mL				
580-136479-K-2	MW-4_20240206	FILTRATION, 3005A, 6020B	D	150 mL	150 mL				
580-136479-G-3	MW-4_PDB_20240206	FILTRATION, 3005A, 6020B	D	200 mL	200 mL				
580-136479-I-4	MW-12_20240206	FILTRATION, 3005A, 6020B	D	200 mL	200 mL				
580-136479-K-5	MW-13_20240206	FILTRATION, 3005A, 6020B	D	200 mL	200 mL				
580-136479-K-6	MW-14_20240206	FILTRATION, 3005A, 6020B	D	200 mL	200 mL				
580-136479-K-7	MW-15_20240206	FILTRATION, 3005A, 6020B	D	200 mL	200 mL				
580-136479-K-8	MW-16_20240206	FILTRATION, 3005A, 6020B	D	200 mL	200 mL				
MB 580-451138/9		FILTRATION, 3005A, 6020B		250 mL	250 mL				
LCS 580-451138/10		FILTRATION, 3005A, 6020B		250 mL	250 mL				
LCSD 580-451138/11		FILTRATION, 3005A, 6020B		250 mL	250 mL				

Batch Notes	
Filter ID	0.45 um filters
Nitric Acid ID	3683171

Basis	Basis Description
D	Dissolved

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

6020B

METALS BATCH WORKSHEET

Lab Name: Eurofins SeattleJob No.: 580-136479-1

SDG No.: _____

Batch Number: 451264Batch Start Date: 02/13/24 16:44Batch Analyst: Hua, Tammy MBatch Method: 3005ABatch End Date: 02/13/24 22:59

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ICP CAL 1 00030	ICP CAL 2 00029	MET Spike 3C 00048	
580-136479-I-1-A	MW-1_20240206	3005A, 6020B	D	50 mL	50 mL				
580-136479-I-1-A DU	MW-1_20240206	3005A, 6020B	D	50 mL	50 mL				
580-136479-I-1-A MS	MW-1_20240206	3005A, 6020B	D	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
580-136479-I-1-A MSD	MW-1_20240206	3005A, 6020B	D	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
580-136479-K-2-A	MW-4_20240206	3005A, 6020B	D	50 mL	50 mL				
580-136479-G-3-A	MW-4_PDB_20240206	3005A, 6020B	D	50 mL	50 mL				
580-136479-I-4-A	MW-12_20240206	3005A, 6020B	D	50 mL	50 mL				
580-136479-K-5-A	MW-13_20240206	3005A, 6020B	D	50 mL	50 mL				
580-136479-K-6-A	MW-14_20240206	3005A, 6020B	D	50 mL	50 mL				
580-136479-K-7-A	MW-15_20240206	3005A, 6020B	D	50 mL	50 mL				
580-136479-K-8-A	MW-16_20240206	3005A, 6020B	D	50 mL	50 mL				
MB 580-451138/9-A		3005A, 6020B		50 mL	50 mL				
LCS 580-451138/10-A		3005A, 6020B		50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
LCSD 580-451138/11-A		3005A, 6020B		50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

6020B

Page 1 of 2

METALS BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-136479-1

SDG No.: _____

Batch Number: 451264 Batch Start Date: 02/13/24 16:44 Batch Analyst: Hua, Tammy MBatch Method: 3005A Batch End Date: 02/13/24 22:59

Batch Notes	
Digestion Tube/Cup ID	3686549
Pipette/Syringe/Dispenser ID	METALS-PREP-2
Analyst ID - Spike Analyst	TH\
Analyst ID - Spike Witness Analyst	MJ
Hydrochloric Acid ID	3692895
Nitric Acid ID	3683175
Digestion Unit ID	block B
Thermometer ID	M99938
Thermometer Location ID	B30
Temperature - Uncorrected - Start	92.5 Degrees C
Temperature - Corrected - Start	92.3 Degrees C
Digestion Start Time	02/13/2024 18:59
Digestion End Time	02/13/2024 22:59
Temperature - Uncorrected - End	92.5 Degrees C
Temperature - Corrected - End	92.3 Degrees C

Basis	Basis Description
D	Dissolved

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

6020B

Page 2 of 2