



Remediation Management Services Company

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July 30, 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 Semi-Annual Groundwater Monitoring Report – First Half of 2024, that documents the results at Former ARCO Facility No. 11060 located at 4580 Fauntleroy Way SW, Seattle, Washington.

Sincerely yours,

A handwritten signature in blue 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



Semi-Annual Groundwater Monitoring Report

First Half of 2024
Former ARCO Facility No. 11060
4580 Fauntleroy Way Southwest, 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
July 30, 2024

Project No. WA – 11060 Seattle
FSID No. 99437681

us.anteagroup.com

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Semi-Annual Groundwater Monitoring Report

First Half of 2024

Former ARCO Facility No. 11060

4580 Fauntleroy Way Southwest, Seattle, Washington

Former BP Facility No.	11060
Address	4580 Fauntleroy Way Southwest, Seattle, Washington
Atlantic Richfield Project Manager	Wade Melton, +1 360 594 7978
Consulting Co. /Contact Person	Antea [®] Group / Lonnie Dent, +1 303 807 3627
Consultant Project Number	WA – 11060 Seattle
Ecology Facility Site ID No./VCP ID No.	Washington State Department of Ecology FSID # 99437681 / VCP # NW3308

WORK PERFORMED DURING FIRST HALF OF 2024

- Antea Group conducted quarterly groundwater monitoring and sampling on February 6 and May 16, 2024.
- During the groundwater sampling event on February 6, 2024, monitoring well MW-5 was dry, therefore the well was not sampled.
- During the groundwater sampling event on May 16, 2024, monitoring wells MW-4 and MW-5 did not contain sufficient groundwater to collect samples for laboratory analyses. A groundwater sample was collected from the passive diffusion bag (PDB) at MW-4 and submitted to the laboratory. However, it was identified that insufficient water column across the PDB at the time of the collection caused dilution of the groundwater sample. The laboratory was notified not to analyze the MW-4 PDB sample.
- On June 17, 2024, soil vapor samples were collected from soil vapor points SVP-1 and SVP-2. Soil vapor sampling results will be summarized in a separate report.
- Antea Group prepared this semi-annual groundwater monitoring report.

WORK SCHEDULED FOR SECOND HALF OF 2024

- Antea Group will conduct quarterly groundwater monitoring and sampling.
- Antea Group will prepare a soil vapor investigation report.
- Antea Group will prepare a semi-annual groundwater monitoring report.

Current Phase of Project	Post-Remediation Monitoring	
Frequency of Groundwater Sampling and Monitoring	Quarterly	
Are LPH Present On-Site	None	
LPH Recovered this Reporting Period	None	
Cumulative LPH Recovered to Date	Unknown	
Amount of Soil Removed to Date	Unknown	
Current Remediation Techniques	None	
Approximate Depth to Groundwater	February 6, 2024 May 16, 2024	19.39 – 28.33 ft. below ground surface (bgs) 21.80 – 27.24 ft. bgs
Groundwater Gradient	February 6, 2024 May 16, 2024	Southeast, 0.028 ft./linear ft. South-Southeast, 0.039 ft./linear ft.

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.

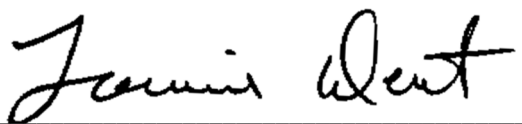
Prepared by



Dennis Lindelof
Staff Professional

Date: July 30, 2024

Reviewed by:



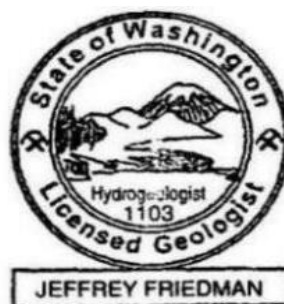
Lonnie Dent
Senior Project Manager

Date: July 30, 2024

Reviewed by:



Jeffrey Friedman, LG
Senior Project Manager



Date: July 30, 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)
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CONTACT INFORMATION

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Tables

Table 1 – Groundwater Gauging Data

Table 2 – Groundwater Analytical Data

Table 1
Groundwater Gauging Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

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

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4580 Fauntleroy Way Southwest, Seattle, Washington

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-2	8/6/2020	267.93	26.61	NP	--	241.32	NS
EW-2	2/6/2024	267.93	25.55	NP	--	242.38	--
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	
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	--

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Groundwater Gauging Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

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
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	--
GMW-1	5/16/2024	265.74	23.61	NP	--	242.13	--
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	--

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Groundwater Gauging Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

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	5/29/2008	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	--
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	--	NP	--	--	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-1	5/16/2024	267.43	25.70	NP	--	241.73	--
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	--

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4580 Fauntleroy Way Southwest, Seattle, Washington

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	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	--
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	--

Table 1
Groundwater Gauging Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

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	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	--
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	--	NP	--	--	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-2	5/16/2024	266.69	24.84	NP	--	241.85	--
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	--

Table 1
Groundwater Gauging Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

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	6/5/1997	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	--
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	--

Table 1
Groundwater Gauging Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

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	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	--
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-3	5/16/2024	266.02	24.10	NP	--	241.92	--
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

Table 1
Groundwater Gauging Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

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	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	--
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	--	NP	--	--	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	--

Table 1
Groundwater Gauging Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

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	2/27/2023	267.67	22.01	NP	--	245.66	--
MW-4	5/25/2023	267.66	--	--	--	--	Dry
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-4	5/16/2024	267.64	26.04	NP	--	241.60	IW
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	--
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	--

Table 1
Groundwater Gauging Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

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	9/25/2007	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
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-5	5/16/2024	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	--

Table 1
Groundwater Gauging Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

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	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	--
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

Table 1
Groundwater Gauging Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

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	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-6	5/16/2024	266.04	23.92	NP	--	242.12	--
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
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

Table 1
Groundwater Gauging Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

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-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-9	5/16/2024	263.37	21.80	NP	--	241.57	--
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	--
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	--

Table 1
Groundwater Gauging Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

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-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-11	5/16/2024	266.45	24.67	NP	--	241.78	--
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-12	5/16/2024	266.56	24.99	NP	--	241.57	--
MW-13	2/6/2024	265.51	19.39	NP	--	246.12	--
MW-13	5/16/2024	265.51	23.00	NP	--	242.51	--
MW-14	2/6/2024	266.17	21.64	NP	--	244.53	--
MW-14	5/16/2024	266.17	24.00	NP	--	242.17	--
MW-15	2/6/2024	268.67	26.99	NP	--	241.68	--
MW-15	5/16/2024	268.67	27.24	NP	--	241.43	--
MW-16	2/6/2024	268.03	26.24	NP	--	241.79	--
MW-16	5/16/2024	268.03	26.29	NP	--	241.74	--
VE-1	4/2/1998	--	--	--	--	--	--
VE-1	9/17/1998	--	--	--	--	--	--
VE-1	12/9/1998	--	--	--	--	--	--
VE-1	3/17/1999	--	--	--	--	--	--

Table 1
Groundwater Gauging Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

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
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 Southwest, Seattle, Washington

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 2010 and are referenced to vertical datum NAVD 88 and horizontal datum NAD 83/98

-- - 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 Southwest, Seattle, Washington

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	1,000	700	1,000	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	8.0	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	--	--	--

Table 2
Groundwater Analytical Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

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	1,000	700	1,000	20	0.01	5	800	500	500	15*	15
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	--	--	--	--
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

Table 2
Groundwater Analytical Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

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	1,000	700	1,000	20	0.01	5	800	500	500	15*	15
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-1	5/16/2024	< 1.0	< 1.0	< 1.0	< 2.0	--	--	--	< 150	650	560	< 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	--	--	--	--
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	--	--	--	--

Table 2
Groundwater Analytical Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

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	1,000	700	1,000	20	0.01	5	800	500	500	15*	15
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	< 5.0	--	--	10,000	--	--	--	--
MW-2	7/2/2000	520	35	190	85	49	--	--	8,200	--	--	--	--
MW-2	9/14/2000	1,100	100	110	100	< 5.0	--	--	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	--	--	--	--

Table 2
Groundwater Analytical Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

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	1,000	700	1,000	20	0.01	5	800	500	500	15*	15
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
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

Table 2
Groundwater Analytical Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

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	1,000	700	1,000	20	0.01	5	800	500	500	15*	15
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	--	--	--	--
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	< 5.0	--	--	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	7.0	--	--	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	--	--	--	--

Table 2
Groundwater Analytical Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

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	1,000	700	1,000	20	0.01	5	800	500	500	15*	15
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 Southwest, Seattle, Washington

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	1,000	700	1,000	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

Table 2
Groundwater Analytical Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

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	1,000	700	1,000	20	0.01	5	800	500	500	15*	15
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 2,300 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
MW-5	5/11/1993	130	25	23	22	--	--	--	1,800	--	--	--	--
MW-5	3/4/1994	26	6.0	11	8.0	--	--	--	710	420	--	< 3.0	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	--	--	--	--

Table 2
Groundwater Analytical Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

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	1,000	700	1,000	20	0.01	5	800	500	500	15*	15
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	6.0	--	--	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
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	--	--

Table 2
Groundwater Analytical Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

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	1,000	700	1,000	20	0.01	5	800	500	500	15*	15
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

Table 2
Groundwater Analytical Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

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	1,000	700	1,000	20	0.01	5	800	500	500	15*	15
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	--	--
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	< 5.0	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	--	--	--	--

Table 2
Groundwater Analytical Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

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	1,000	700	1,000	20	0.01	5	800	500	500	15*	15
MW-8	4/2/1998	< 0.5	1.0	< 0.5	< 1.5	< 5.0	--	--	< 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
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

Table 2
Groundwater Analytical Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

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	1,000	700	1,000	20	0.01	5	800	500	500	15*	15
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 Southwest, Seattle, Washington

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	1,000	700	1,000	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-12	5/16/2024	--	--	--	--	--	--	--	3,600	1,600	--	< 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-13	5/16/2024	< 1.0	< 1.0	< 1.0	< 2.0	--	--	--	< 150	210	< 350	< 2.0	4.4
MW-14	2/6/2024	1.7	3.8	150	110	--	--	--	4,600	4,200	420	< 2.0	< 2.0
MW-14	5/16/2024	< 10	< 10	110	37	--	--	--	4,300	3,700	410	< 2.0	5.3
MW-15	2/6/2024	< 1.0	< 1.0	5.2	3.6	--	--	--	3,700	1,600	< 360	4.2	5.7
MW-15	5/16/2024	1.8	1.7	5.9	5.6	--	--	--	4,200	2,400	< 350	< 2.0	< 2.0
MW-16	2/6/2024	< 1.0	< 1.0	< 1.0	< 2.0	--	--	--	< 100	< 110	< 360	< 2.0	< 2.0
MW-16	5/16/2024	< 1.0	< 1.0	< 1.0	< 2.0	--	--	--	< 150	< 210	< 370	< 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	--	--	--	--

Table 2
Groundwater Analytical Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

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	1,000	700	1,000	20	0.01	5	800	500	500	15*	15
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	--	--	--	--
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	--	--	--	--

Table 2
Groundwater Analytical Data
Former ARCO Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

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	1,000	700	1,000	20	0.01	5	800	500	500	15*	15

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

* = The MTCA Method A Cleanup Level for dissolved lead of 15 ug/L is based off of that of total lead

<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

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

Regarding sample 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 following 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.

Figures

Figure 1 – Site Location Map

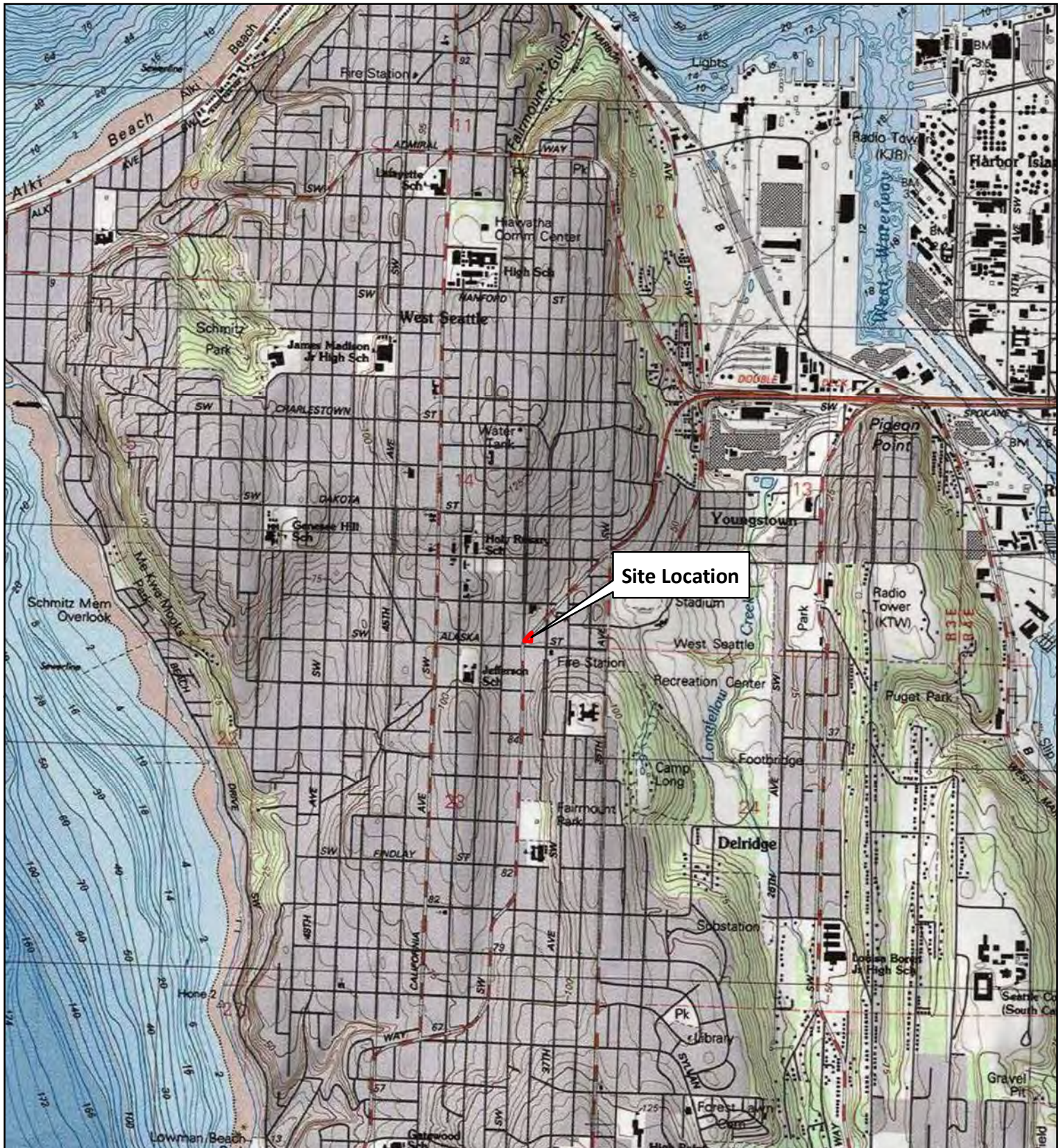
Figure 2 – Site Aerial Map

Figure 3 – Groundwater Elevation Contour Map - February 6, 2024

Figure 4 – Groundwater Analytical Data Map - February 6, 2024

Figure 5 – Groundwater Elevation Contour Map - May 16, 2024

Figure 6 – Groundwater Analytical Data Map - May 16, 2024



Site Location



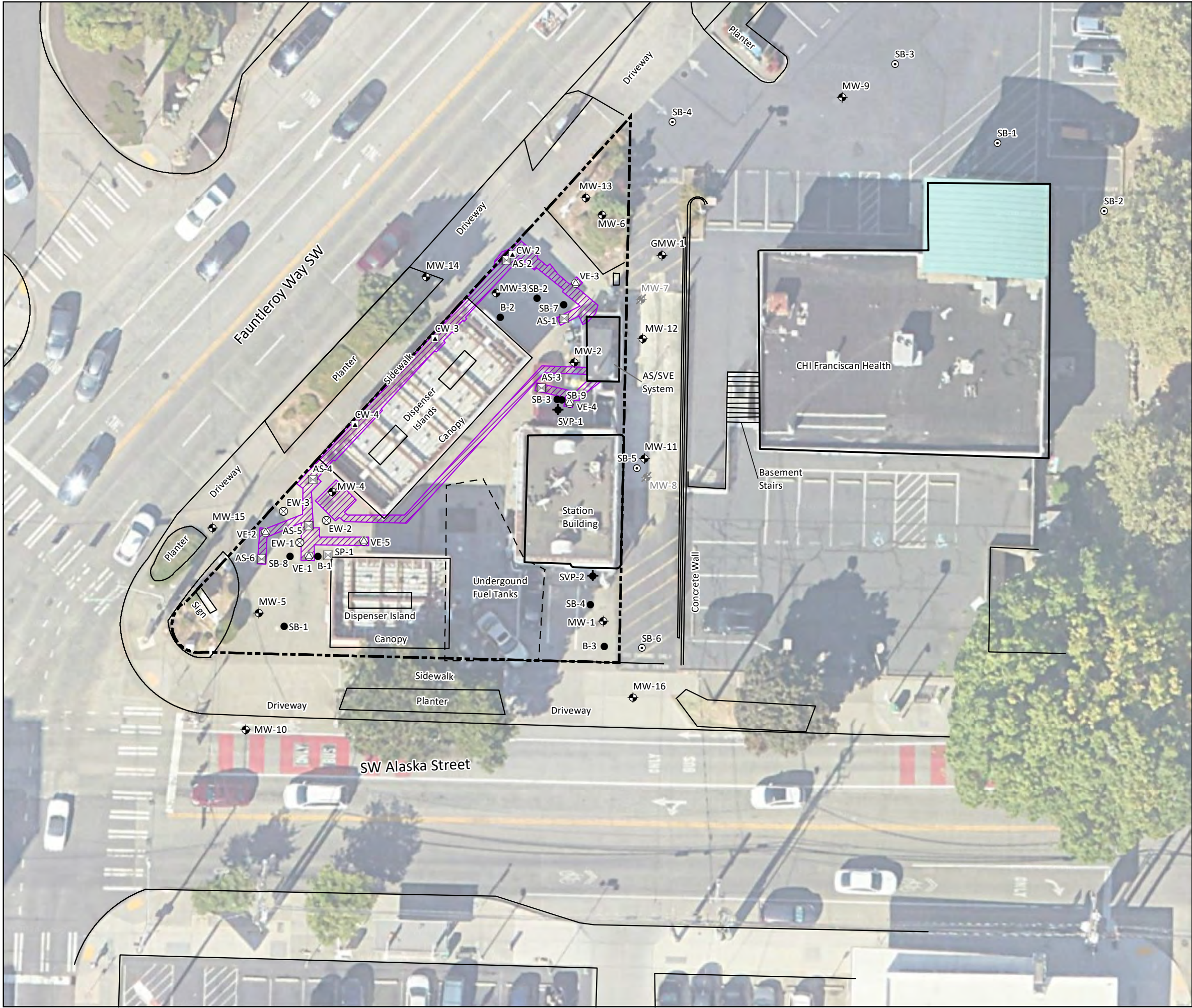
USGS Topographic Map 1:24,000
Duwamish Head, WA 2017

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

FIGURE 1

SITE LOCATION MAP
FORMER ARCO FACILITY NO. 11060
4580 FAUNTLEROY WAY SOUTHWEST
SEATTLE, WASHINGTON

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 83/98

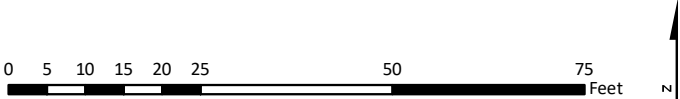
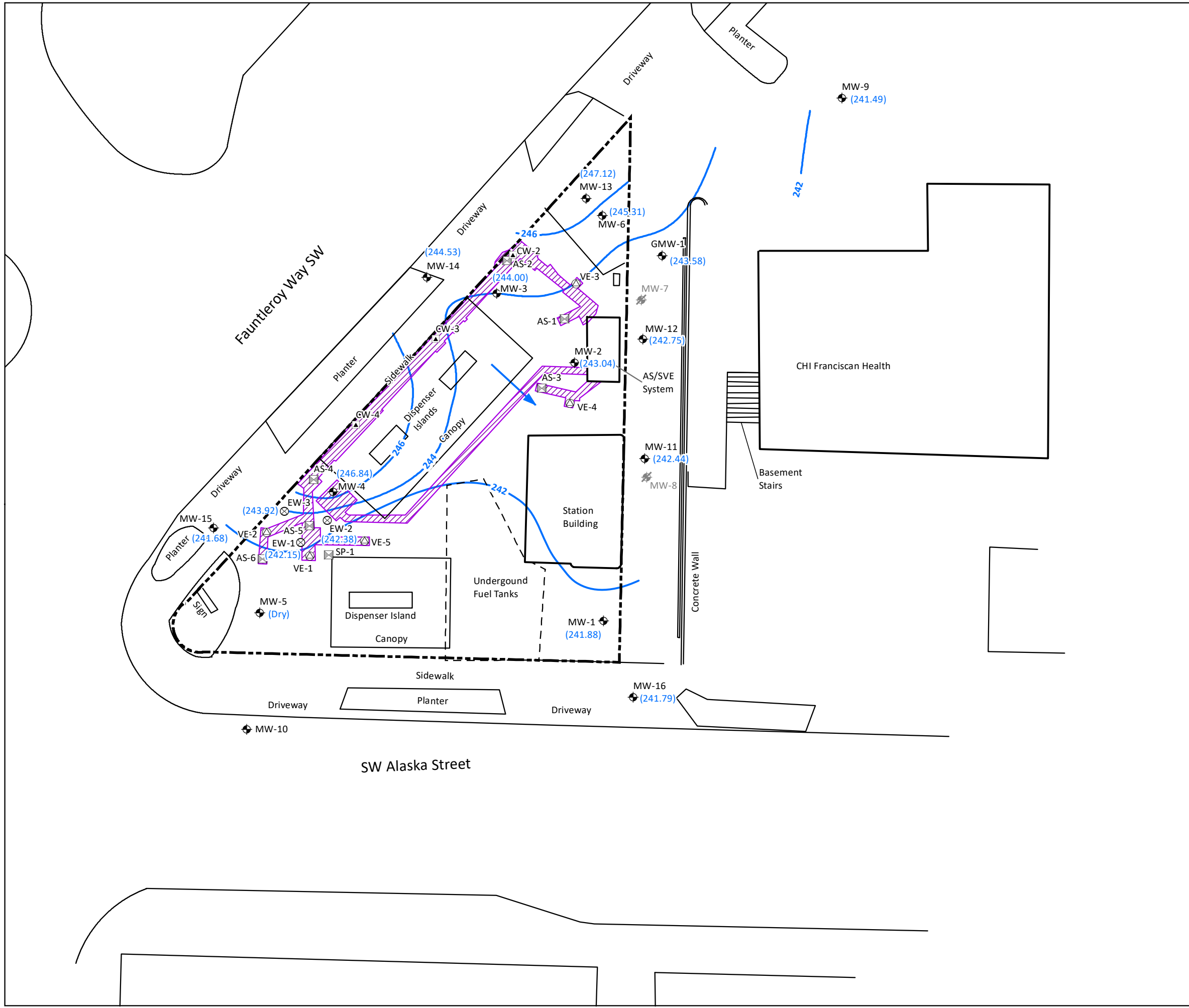


FIGURE 2
SITE AERIAL MAP
FORMER ARCO FACILITY NO. 11060
4580 FAUNTLEROY WAY SOUTHWEST
SEATTLE, WASHINGTON

PROJECT NO. WA - 11060 Seattle	PREPARED BY MB	REF SCALE 1:300	
DATE 4/1/2024	REVIEWED BY DL	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)

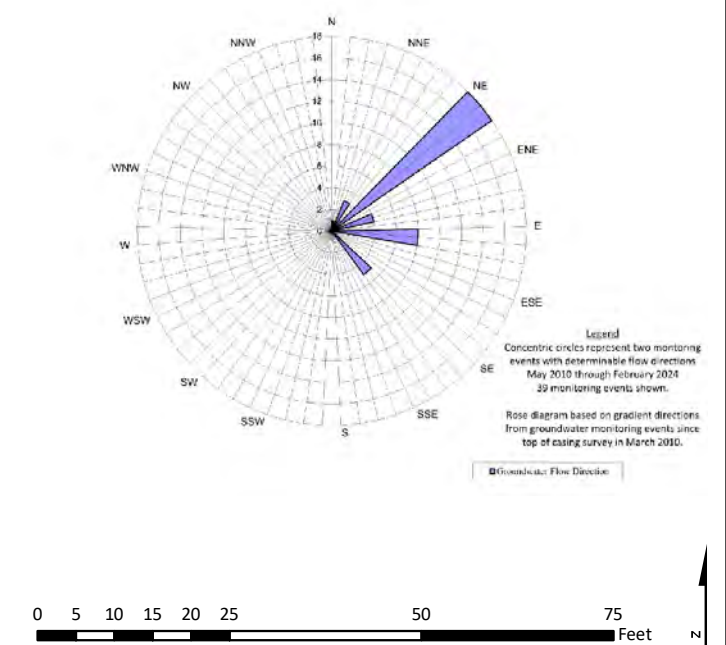
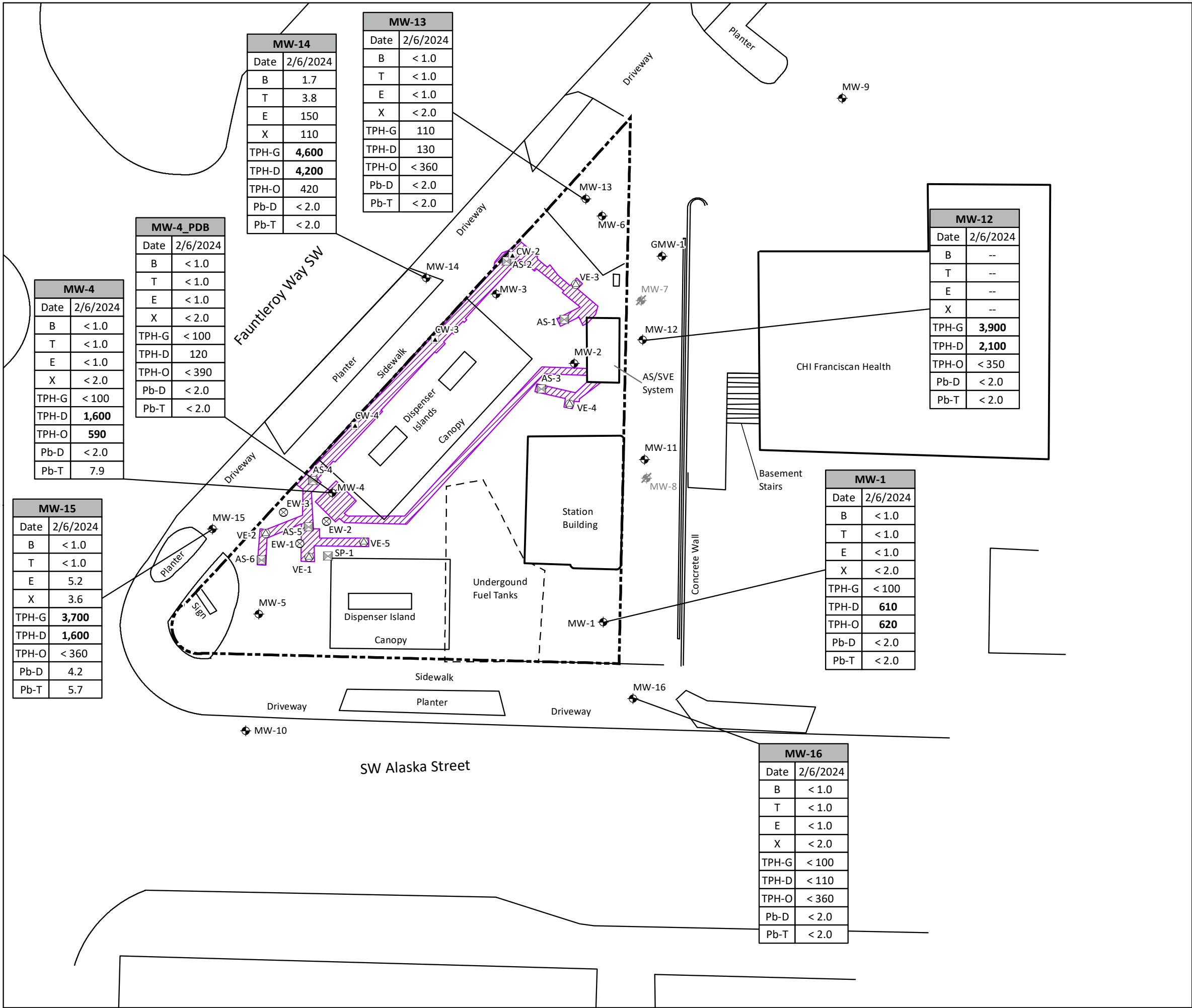


FIGURE 3
GROUNDWATER ELEVATION CONTOUR MAP
FEBRUARY 6, 2024
FORMER ARCO FACILITY NO. 11060
4580 FAUNTLEROY WAY
SEATTLE, WA

PROJECT NO. 11060	PREPARED BY MB	REF SCALE 1:300	data management + analytics
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
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)

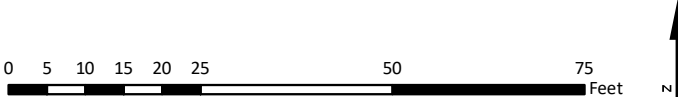
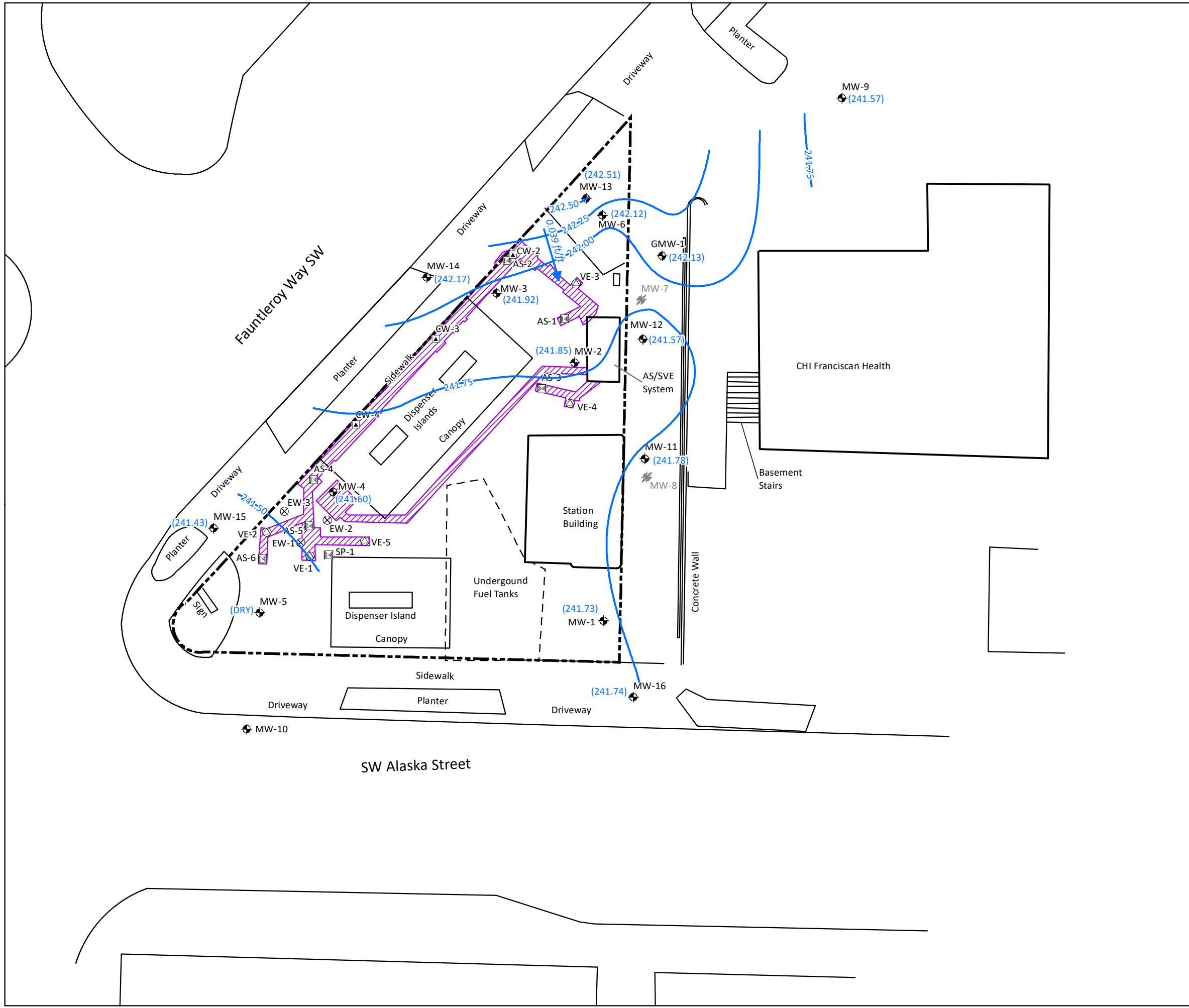


FIGURE 4
GROUNDWATER ANALYTICAL DATA MAP
FEBRUARY 6, 2024
FORMER ARCO FACILITY NO. 11060
4580 FAUNTLEROY WAY SOUTHWEST
SEATTLE, WASHINGTON

PROJECT NO. WA - 11060 Seattle	PREPARED BY MB	REF SCALE 1:300	
DATE 4/1/2024	REVIEWED BY DL	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 = .25 foot)
 - Inferred Groundwater Flow Direction
 - (241.49) Groundwater Elevation (feet)

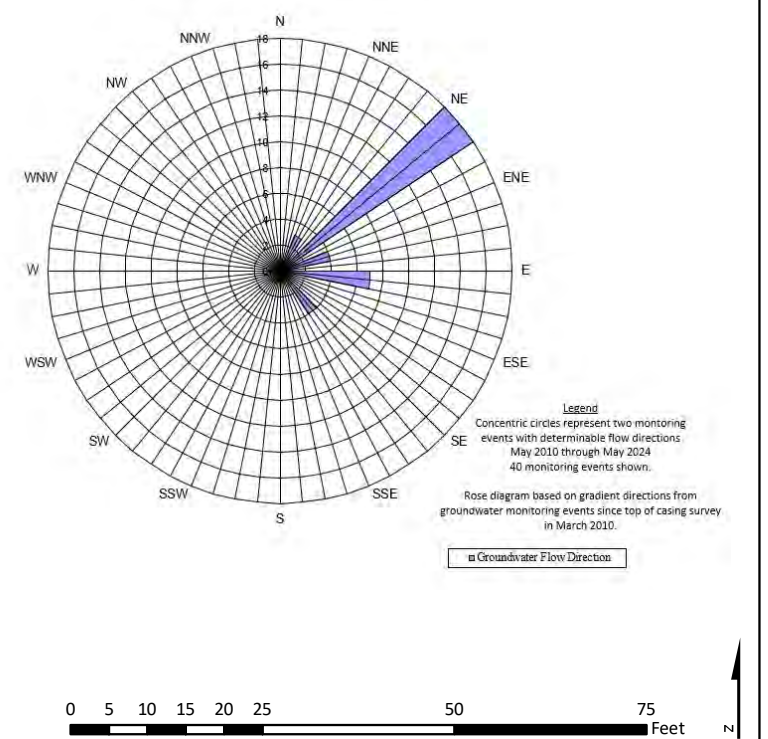
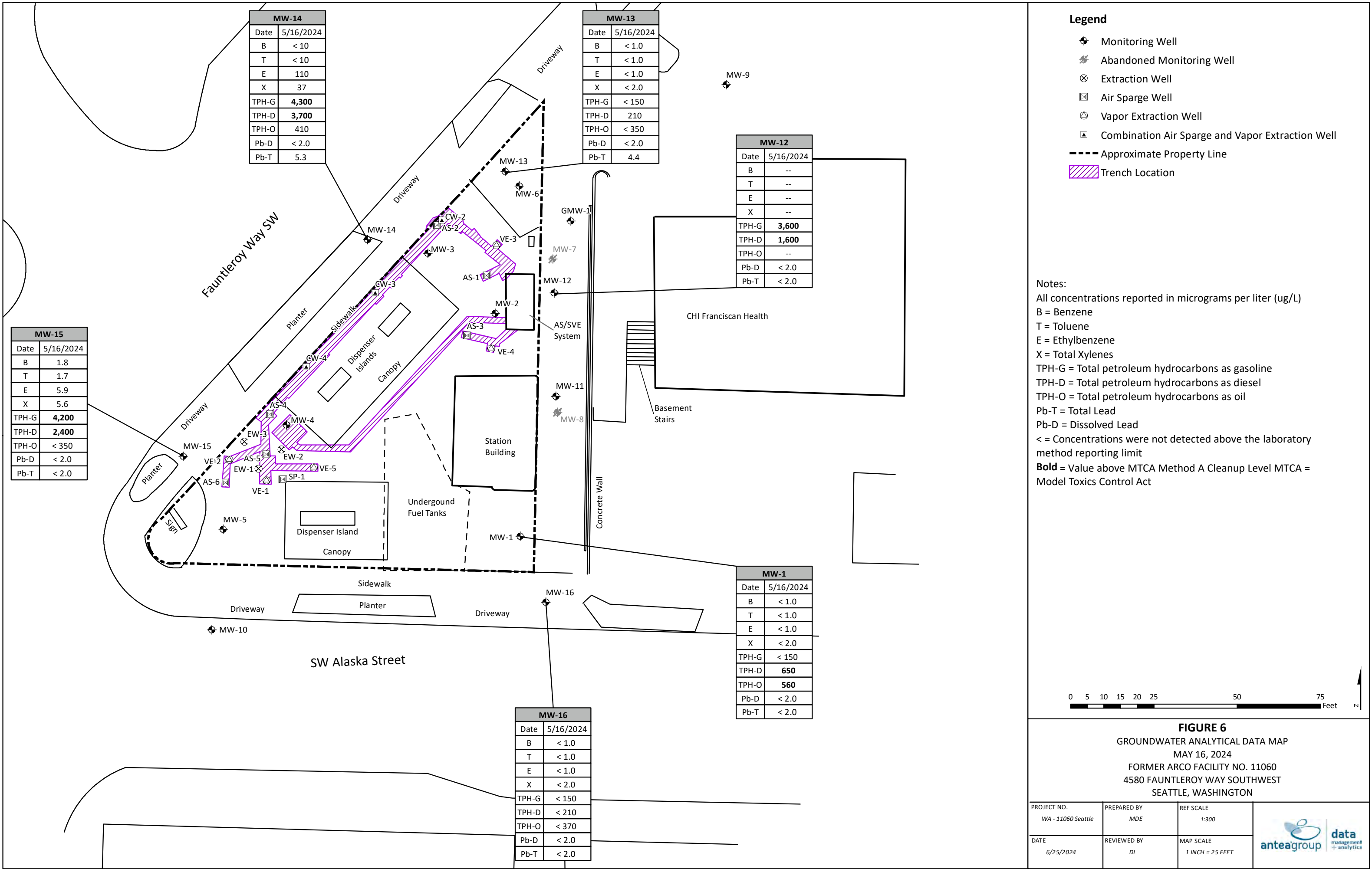


FIGURE 5
GROUNDWATER ELEVATION CONTOUR MAP
MAY 16, 2024
FORMER ARCO FACILITY NO. 11060
4580 FAUNTLEROY WAY SOUTHWEST
SEATTLE, WASHINGTON

PROJECT NO. WA - 11060 Seattle	PREPARED BY MDE	REF SCALE 1:300	
DATE 7/3/2024	REVIEWED BY DL	MAP SCALE 1 INCH = 25 FEET	



Appendix A – Analytical Lab Reports and Chain of Custody Documentation



ANALYTICAL REPORT

PREPARED FOR

Attn: Megan Richard
Antea USA Inc.
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Redmond, Washington 98052

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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
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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.

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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.

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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.

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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

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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

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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

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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

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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

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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

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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

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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)

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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

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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
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

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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

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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
Added	Result	Qualifier				Limits	
Gasoline	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
Added	Result	Qualifier				Limits		Limit	
Gasoline	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

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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 Date: 4/1/17

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				

Rep Date: 4/1/17

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								

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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	

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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	%Rec	%Rec Limits	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		

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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

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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

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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:

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				Email: lonnie.dent@anteagroup.us															
Lab Bottle Order No: Accounting Mode: Provision <u> X </u> OOC-BU <u> </u> OOC-RM <u> </u>				Send/Submit EDD to: DigitalSolutions.EQulS@anteagroup.us																			
Other Info: katie.grant@et.eurofinsus.com				Stage Commercial-Site Activities (70) Activity Contracts Management (116)				Invoice To: BP-RM <u> </u> BP/ARC <u> X </u>															
BP/RM PM: Wade Melton				Sample Details				Requested Analyses				Report Type & QC Level											
												Limited (Standard) Package <u> X </u>											
PM Phone: 360-594-7978												Limited Plus Package <u> </u>											
PM Email: wade.melton@bp.com												Full Package <u> </u>											
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	Comments										
	MW-1_20240206	2/6/24	10:10	W				G	10	X X X X X													
	MW-4_20240206	2/6/24	11:30	W				G	10	X X X X X													
	MW-4_PDB_20240206	2/6/24	10:35	W				G	10	X X X X X													
	MW-8_20240206	2/6/24	11:35	W				G	10	X X X X X													
	MW-12_20240206	2/6/24	13:09	W				G	10	X X X X X													
	MW-13_20240206	2/6/24	14:20	W				G	12	X X X X X X X													
	MW-14_20240206	2/6/24	13:45	W				G	12	X X X X X X X													
	MW-15_20240206	2/6/24	12:10	W				G	12	X X X X X X X													
	MW-16_20240206	2/6/24	09:25	W				G	12	X X X X X X X													
	Trip Blank_20240206	2/6/24	00:00	W				G	2	X X													
Sampler's Name: <u>Mariah Murphy</u>				Relinquished By / Affiliation: <u>W Bellows / Antea Group</u>				Date: <u>2/9/24</u>		Time: <u>1547</u>		Accepted By / Affiliation: <u>EEA</u>				Date: <u>2/9/24</u>		Time: <u>1545</u>					
Sampler's Company: <u>Antea Group</u>																							
Ship Method: <u>fourier</u> Ship Date: <u>2/9/24</u>																							
Shipment Tracking No: <u> </u>																							
Special Instructions:																							
THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No Temp Blank: Yes / No Cooler Temp on Receipt: <u> </u> °F/C Trip Blank: Yes / No MS/MSD Sample Submitted: Yes / No																							

Therm. ID: 7 Cor: 4.0 ° Unc: 3.9 °
Cooler Desc: UB FedEx:
Packing: B2B UPS:
Cust. Seal: Yes No Lab Cour:
Blue Ice/Wet/Dry/None Other: C.D.

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 Seattle Job No.: 580-136479-1

SDG No.: _____

Batch Number: 451074 Batch Start Date: 02/12/24 08:44 Batch Analyst: Ledesma, SantiagoBatch Method: 3510C Batch 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

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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

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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

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ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

BP - ARCO 11060

JOB NUMBER

580-140158-1

Eurofins Seattle

Job Notes

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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



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Authorized for release by
Marie Walker, Senior Project Manager
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Definitions/Glossary

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

Job ID: 580-140158-1

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: 580-140158-1

Job ID: 580-140158-1

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Job Narrative 580-140158-1

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 5/17/2024 10:47 AM. 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.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

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

Samples MW-1_20240516 (580-140158-1), MW-12_20240516 (580-140158-3), MW-13_20240516 (580-140158-4), MW-14_20240516 (580-140158-5), MW-15_20240516 (580-140158-6), MW-16_20240516 (580-140158-7) and Trip Blank_20240516 (580-140158-8) were analyzed for Northwest - Volatile Petroleum Products (GC/MS). The samples were analyzed on 5/22/2024.

The following sample was diluted due to the abundance of non-target analytes: MW-14_20240516 (580-140158-5). Elevated reporting limits (RLs) are provided.

Method 8260D - Volatile Organic Compounds by GC/MS

Samples MW-1_20240516 (580-140158-1), MW-13_20240516 (580-140158-4), MW-14_20240516 (580-140158-5), MW-15_20240516 (580-140158-6), MW-16_20240516 (580-140158-7) and Trip Blank_20240516 (580-140158-8) were analyzed for Volatile Organic Compounds by GC/MS. The samples were analyzed on 5/22/2024.

Sample MW-14_20240516 (580-140158-5)[10x] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

Samples MW-13_20240516 (580-140158-4), MW-14_20240516 (580-140158-5), MW-15_20240516 (580-140158-6) and MW-16_20240516 (580-140158-7) were analyzed for Semivolatile Organic Compounds (GC/MS SIM). The samples were prepared on 5/22/2024 and analyzed on 5/23/2024.

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

Samples MW-1_20240516 (580-140158-1), MW-12_20240516 (580-140158-3), MW-13_20240516 (580-140158-4), MW-14_20240516 (580-140158-5), MW-15_20240516 (580-140158-6) and MW-16_20240516 (580-140158-7) were analyzed for Northwest - Semi-Volatile Petroleum Products (GC). The samples were prepared on 5/23/2024 and analyzed on 5/24/2024.

The following samples formed emulsions during the extraction procedure: MW-13_20240516 (580-140158-4) and MW-14_20240516 (580-140158-5). The emulsions were broken up using additional methylene chloride rinses and sodium sulfate filtration. NWTPH_Dx.

Method 6020B - Metals (ICP/MS) - Dissolved

Samples MW-1_20240516 (580-140158-1), MW-12_20240516 (580-140158-3), MW-13_20240516 (580-140158-4), MW-14_20240516 (580-140158-5), MW-15_20240516 (580-140158-6) and MW-16_20240516 (580-140158-7) were analyzed for Metals (ICP/MS) - Dissolved. The samples were prepared on 5/22/2024 and analyzed on 5/24/2024.

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Case Narrative

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

Job ID: 580-140158-1

Job ID: 580-140158-1 (Continued)Eurofins Seattle

Method 6020B - Metals (ICP/MS) - Total Recoverable

Samples MW-1_20240516 (580-140158-1), MW-12_20240516 (580-140158-3), MW-13_20240516 (580-140158-4), MW-14_20240516 (580-140158-5), MW-15_20240516 (580-140158-6) and MW-16_20240516 (580-140158-7) were analyzed for Metals (ICP/MS) - Total Recoverable. The samples were prepared on 5/23/2024 and analyzed on 5/24/2024.

Samples MW-1_20240516 (580-140158-1)[5x], MW-12_20240516 (580-140158-3)[5x], MW-13_20240516 (580-140158-4)[5x], MW-14_20240516 (580-140158-5)[5x], MW-15_20240516 (580-140158-6)[5x] and MW-16_20240516 (580-140158-7)[5x] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Detection Summary

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

Job ID: 580-140158-1

Client Sample ID: MW-1_20240516

Lab Sample ID: 580-140158-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
#2 Diesel (C10-C24)	650		210	94	ug/L	1		NWTPH-Dx	Total/NA
Motor Oil (>C24-C36)	560		360	130	ug/L	1		NWTPH-Dx	Total/NA

Client Sample ID: MW-12_20240516

Lab Sample ID: 580-140158-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline	3600		150	73	ug/L	1		NWTPH-Gx	Total/NA
#2 Diesel (C10-C24)	1600		200	92	ug/L	1		NWTPH-Dx	Total/NA

Client Sample ID: MW-13_20240516

Lab Sample ID: 580-140158-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
#2 Diesel (C10-C24)	210		200	91	ug/L	1		NWTPH-Dx	Total/NA
Lead	4.4		2.0	0.20	ug/L	5		6020B	Total Recoverable

Client Sample ID: MW-14_20240516

Lab Sample ID: 580-140158-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	110		10	5.0	ug/L	10		8260D	Total/NA
m-Xylene & p-Xylene	37		20	5.3	ug/L	10		8260D	Total/NA
Xylenes, Total	37		20	5.3	ug/L	10		8260D	Total/NA
Gasoline	4300		1500	730	ug/L	10		NWTPH-Gx	Total/NA
Naphthalene	1.6		0.52	0.17	ug/L	1		8270E SIM	Total/NA
#2 Diesel (C10-C24)	3700		210	94	ug/L	1		NWTPH-Dx	Total/NA
Motor Oil (>C24-C36)	410		360	130	ug/L	1		NWTPH-Dx	Total/NA
Lead	5.3		2.0	0.20	ug/L	5		6020B	Total Recoverable

Client Sample ID: MW-15_20240516

Lab Sample ID: 580-140158-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.8		1.0	0.24	ug/L	1		8260D	Total/NA
Toluene	1.7		1.0	0.39	ug/L	1		8260D	Total/NA
Ethylbenzene	5.9		1.0	0.50	ug/L	1		8260D	Total/NA
m-Xylene & p-Xylene	3.5		2.0	0.53	ug/L	1		8260D	Total/NA
o-Xylene	2.1		1.0	0.39	ug/L	1		8260D	Total/NA
Xylenes, Total	5.6		2.0	0.53	ug/L	1		8260D	Total/NA
Gasoline	4200		150	73	ug/L	1		NWTPH-Gx	Total/NA
Naphthalene	1.9		0.51	0.17	ug/L	1		8270E SIM	Total/NA
#2 Diesel (C10-C24)	2400		200	92	ug/L	1		NWTPH-Dx	Total/NA

Client Sample ID: MW-16_20240516

Lab Sample ID: 580-140158-7

No Detections.

Client Sample ID: Trip Blank_20240516

Lab Sample ID: 580-140158-8

No Detections.

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: 580-140158-1

Client Sample ID: MW-1_20240516

Lab Sample ID: 580-140158-1

Date Collected: 05/16/24 13:35

Matrix: Water

Date Received: 05/17/24 10:47

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			05/22/24 09:03	1
Toluene	ND		1.0	0.39	ug/L			05/22/24 09:03	1
Ethylbenzene	ND		1.0	0.50	ug/L			05/22/24 09:03	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			05/22/24 09:03	1
o-Xylene	ND		1.0	0.39	ug/L			05/22/24 09:03	1
Xylenes, Total	ND		2.0	0.53	ug/L			05/22/24 09:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120		05/22/24 09:03	1
1,2-Dichloroethane-d4 (Surr)	100		80 - 120		05/22/24 09:03	1
4-Bromofluorobenzene (Surr)	103		80 - 120		05/22/24 09:03	1
Dibromofluoromethane (Surr)	104		80 - 120		05/22/24 09:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	73	ug/L			05/22/24 09:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		77 - 123		05/22/24 09:03	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)	650		210	94	ug/L		05/23/24 08:29	05/24/24 02:23	1
Motor Oil (>C24-C36)	560		360	130	ug/L		05/23/24 08:29	05/24/24 02:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	58		50 - 150	05/23/24 08:29	05/24/24 02:23	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		05/23/24 18:03	05/24/24 18:22	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		05/22/24 18:10	05/24/24 15:49	5

Client Sample ID: MW-12_20240516

Lab Sample ID: 580-140158-3

Date Collected: 05/16/24 14:05

Matrix: Water

Date Received: 05/17/24 10:47

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	3600		150	73	ug/L			05/22/24 11:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		77 - 123		05/22/24 11:21	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		200	92	ug/L		05/23/24 08:29	05/24/24 02:43	1

Eurofins Seattle

Client Sample Results

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

Job ID: 580-140158-1

Client Sample ID: MW-12_20240516

Lab Sample ID: 580-140158-3

Date Collected: 05/16/24 14:05

Matrix: Water

Date Received: 05/17/24 10:47

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	67		50 - 150	05/23/24 08:29	05/24/24 02:43	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		05/23/24 18:03	05/24/24 18:25	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		05/22/24 18:10	05/24/24 16:13	5

Client Sample ID: MW-13_20240516

Lab Sample ID: 580-140158-4

Date Collected: 05/16/24 10:30

Matrix: Water

Date Received: 05/17/24 10:47

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			05/22/24 09:49	1
Toluene	ND		1.0	0.39	ug/L			05/22/24 09:49	1
Ethylbenzene	ND		1.0	0.50	ug/L			05/22/24 09:49	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			05/22/24 09:49	1
o-Xylene	ND		1.0	0.39	ug/L			05/22/24 09:49	1
Xylenes, Total	ND		2.0	0.53	ug/L			05/22/24 09:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	98		80 - 120		05/22/24 09:49	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	101		80 - 120		05/22/24 09:49	1
<i>4-Bromofluorobenzene (Surr)</i>	101		80 - 120		05/22/24 09:49	1
<i>Dibromofluoromethane (Surr)</i>	105		80 - 120		05/22/24 09:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	73	ug/L			05/22/24 09:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>4-Bromofluorobenzene (Surr)</i>	101		77 - 123		05/22/24 09:49	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		05/22/24 08:39	05/23/24 02:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Terphenyl-d14</i>	53		29 - 150	05/22/24 08:39	05/23/24 02:27	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)	210		200	91	ug/L		05/23/24 08:29	05/24/24 03:04	1
Motor Oil (>C24-C36)	ND		350	130	ug/L		05/23/24 08:29	05/24/24 03:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	59		50 - 150	05/23/24 08:29	05/24/24 03:04	1

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Client Sample Results

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

Job ID: 580-140158-1

Client Sample ID: MW-13_20240516

Lab Sample ID: 580-140158-4

Date Collected: 05/16/24 10:30

Matrix: Water

Date Received: 05/17/24 10:47

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	4.4		2.0	0.20	ug/L		05/23/24 18:03	05/24/24 18:27	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		05/22/24 18:10	05/24/24 16:21	5

Client Sample ID: MW-14_20240516

Lab Sample ID: 580-140158-5

Date Collected: 05/16/24 15:15

Matrix: Water

Date Received: 05/17/24 10:47

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		10	2.4	ug/L			05/22/24 12:08	10
Toluene	ND		10	3.9	ug/L			05/22/24 12:08	10
Ethylbenzene	110		10	5.0	ug/L			05/22/24 12:08	10
m-Xylene & p-Xylene	37		20	5.3	ug/L			05/22/24 12:08	10
o-Xylene	ND		10	3.9	ug/L			05/22/24 12:08	10
Xylenes, Total	37		20	5.3	ug/L			05/22/24 12:08	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120		05/22/24 12:08	10
1,2-Dichloroethane-d4 (Surr)	99		80 - 120		05/22/24 12:08	10
4-Bromofluorobenzene (Surr)	102		80 - 120		05/22/24 12:08	10
Dibromofluoromethane (Surr)	106		80 - 120		05/22/24 12:08	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	4300		1500	730	ug/L			05/22/24 12:08	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		77 - 123		05/22/24 12:08	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	1.6		0.52	0.17	ug/L		05/22/24 08:39	05/23/24 02:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	52		29 - 150	05/22/24 08:39	05/23/24 02:51	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)	3700		210	94	ug/L		05/23/24 08:29	05/24/24 03:24	1
Motor Oil (>C24-C36)	410		360	130	ug/L		05/23/24 08:29	05/24/24 03:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	80		50 - 150	05/23/24 08:29	05/24/24 03:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	5.3		2.0	0.20	ug/L		05/23/24 18:03	05/24/24 18:19	5

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Client Sample Results

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

Job ID: 580-140158-1

Client Sample ID: MW-14_20240516

Lab Sample ID: 580-140158-5

Date Collected: 05/16/24 15:15

Matrix: Water

Date Received: 05/17/24 10:47

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		05/22/24 18:10	05/24/24 16:16	5

Client Sample ID: MW-15_20240516

Lab Sample ID: 580-140158-6

Date Collected: 05/16/24 12:40

Matrix: Water

Date Received: 05/17/24 10:47

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.8		1.0	0.24	ug/L			05/22/24 11:45	1
Toluene	1.7		1.0	0.39	ug/L			05/22/24 11:45	1
Ethylbenzene	5.9		1.0	0.50	ug/L			05/22/24 11:45	1
m-Xylene & p-Xylene	3.5		2.0	0.53	ug/L			05/22/24 11:45	1
o-Xylene	2.1		1.0	0.39	ug/L			05/22/24 11:45	1
Xylenes, Total	5.6		2.0	0.53	ug/L			05/22/24 11:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		05/22/24 11:45	1
1,2-Dichloroethane-d4 (Surr)	95		80 - 120		05/22/24 11:45	1
4-Bromofluorobenzene (Surr)	100		80 - 120		05/22/24 11:45	1
Dibromofluoromethane (Surr)	99		80 - 120		05/22/24 11:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	4200		150	73	ug/L			05/22/24 11:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		77 - 123		05/22/24 11:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	1.9		0.51	0.17	ug/L		05/22/24 08:39	05/23/24 03:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	42		29 - 150	05/22/24 08:39	05/23/24 03:16	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)	2400		200	92	ug/L		05/23/24 08:29	05/24/24 03:44	1
Motor Oil (>C24-C36)	ND		350	130	ug/L		05/23/24 08:29	05/24/24 03:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	57		50 - 150	05/23/24 08:29	05/24/24 03:44	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		05/23/24 18:03	05/24/24 18:17	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		05/22/24 18:10	05/24/24 16:27	5

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Client Sample Results

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

Job ID: 580-140158-1

Client Sample ID: MW-16_20240516

Lab Sample ID: 580-140158-7

Date Collected: 05/16/24 09:40

Matrix: Water

Date Received: 05/17/24 10:47

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			05/22/24 10:12	1
Toluene	ND		1.0	0.39	ug/L			05/22/24 10:12	1
Ethylbenzene	ND		1.0	0.50	ug/L			05/22/24 10:12	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			05/22/24 10:12	1
o-Xylene	ND		1.0	0.39	ug/L			05/22/24 10:12	1
Xylenes, Total	ND		2.0	0.53	ug/L			05/22/24 10:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120		05/22/24 10:12	1
1,2-Dichloroethane-d4 (Surr)	100		80 - 120		05/22/24 10:12	1
4-Bromofluorobenzene (Surr)	102		80 - 120		05/22/24 10:12	1
Dibromofluoromethane (Surr)	103		80 - 120		05/22/24 10:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	73	ug/L			05/22/24 10:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		77 - 123		05/22/24 10:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.50	0.16	ug/L		05/22/24 08:39	05/23/24 03:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	72		29 - 150	05/22/24 08:39	05/23/24 03:41	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		210	96	ug/L		05/23/24 08:29	05/24/24 04:04	1
Motor Oil (>C24-C36)	ND		370	140	ug/L		05/23/24 08:29	05/24/24 04:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	53		50 - 150	05/23/24 08:29	05/24/24 04:04	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		05/23/24 18:03	05/24/24 18:14	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		05/22/24 18:10	05/24/24 16:24	5

Client Sample ID: Trip Blank_20240516

Lab Sample ID: 580-140158-8

Date Collected: 05/16/24 00:00

Matrix: Water

Date Received: 05/17/24 10:47

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			05/22/24 07:07	1
Toluene	ND		1.0	0.39	ug/L			05/22/24 07:07	1
Ethylbenzene	ND		1.0	0.50	ug/L			05/22/24 07:07	1

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Client Sample Results

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

Job ID: 580-140158-1

Client Sample ID: Trip Blank_20240516

Lab Sample ID: 580-140158-8

Date Collected: 05/16/24 00:00

Matrix: Water

Date Received: 05/17/24 10:47

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			05/22/24 07:07	1
o-Xylene	ND		1.0	0.39	ug/L			05/22/24 07:07	1
Xylenes, Total	ND		2.0	0.53	ug/L			05/22/24 07:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120		05/22/24 07:07	1
1,2-Dichloroethane-d4 (Surr)	99		80 - 120		05/22/24 07:07	1
4-Bromofluorobenzene (Surr)	102		80 - 120		05/22/24 07:07	1
Dibromofluoromethane (Surr)	105		80 - 120		05/22/24 07:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	73	ug/L			05/22/24 07:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		77 - 123		05/22/24 07:07	1

Surrogate Summary

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

Job ID: 580-140158-1

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)
580-140158-1	MW-1_20240516	99	100	103	104
580-140158-4	MW-13_20240516	98	101	101	105
580-140158-5	MW-14_20240516	100	99	102	106
580-140158-6	MW-15_20240516	102	95	100	99
580-140158-7	MW-16_20240516	98	100	102	103
580-140158-8	Trip Blank_20240516	98	99	102	105
LCS 580-460128/6	Lab Control Sample	101	98	101	103
LCSD 580-460128/7	Lab Control Sample Dup	100	99	101	103
MB 580-460128/11	Method Blank	98	100	102	108

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)			
580-140158-1	MW-1_20240516	103			
580-140158-3	MW-12_20240516	99			
580-140158-4	MW-13_20240516	101			
580-140158-5	MW-14_20240516	102			
580-140158-6	MW-15_20240516	100			
580-140158-7	MW-16_20240516	102			
580-140158-8	Trip Blank_20240516	102			
LCS 580-460124/8	Lab Control Sample	101			
LCSD 580-460124/9	Lab Control Sample Dup	101			
MB 580-460124/11	Method Blank	102			

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TPHL (29-150)			
580-140158-4	MW-13_20240516	53			
580-140158-5	MW-14_20240516	52			
580-140158-6	MW-15_20240516	42			
580-140158-7	MW-16_20240516	72			
LCS 580-460172/2-A	Lab Control Sample	77			
LCSD 580-460172/3-A	Lab Control Sample Dup	71			
MB 580-460172/1-A	Method Blank	76			

Surrogate Legend

TPHL = Terphenyl-d14

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Surrogate Summary

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

Job ID: 580-140158-1

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)
580-140158-1	MW-1_20240516	58
580-140158-3	MW-12_20240516	67
580-140158-4	MW-13_20240516	59
580-140158-5	MW-14_20240516	80
580-140158-6	MW-15_20240516	57
580-140158-7	MW-16_20240516	53
LCS 580-460290/2-A	Lab Control Sample	81
LCSD 580-460290/3-A	Lab Control Sample Dup	83
MB 580-460290/1-A	Method Blank	61
Surrogate Legend		
OTPH = o-Terphenyl		

QC Sample Results

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

Job ID: 580-140158-1

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

Lab Sample ID: MB 580-460128/11

Matrix: Water

Analysis Batch: 460128

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			05/22/24 04:25	1
Toluene	ND		1.0	0.39	ug/L			05/22/24 04:25	1
Ethylbenzene	ND		1.0	0.50	ug/L			05/22/24 04:25	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			05/22/24 04:25	1
o-Xylene	ND		1.0	0.39	ug/L			05/22/24 04:25	1
Xylenes, Total	ND		2.0	0.53	ug/L			05/22/24 04:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120		05/22/24 04:25	1
1,2-Dichloroethane-d4 (Surr)	100		80 - 120		05/22/24 04:25	1
4-Bromofluorobenzene (Surr)	102		80 - 120		05/22/24 04:25	1
Dibromofluoromethane (Surr)	108		80 - 120		05/22/24 04:25	1

Lab Sample ID: LCS 580-460128/6

Matrix: Water

Analysis Batch: 460128

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	5.00	5.25		ug/L		105	80 - 122
Toluene	5.00	5.27		ug/L		105	80 - 120
Ethylbenzene	5.00	5.42		ug/L		108	80 - 120
m-Xylene & p-Xylene	5.00	5.55		ug/L		111	80 - 120
o-Xylene	5.00	5.38		ug/L		108	80 - 120
Xylenes, Total	10.0	10.9		ug/L		109	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	101		80 - 120
1,2-Dichloroethane-d4 (Surr)	98		80 - 120
4-Bromofluorobenzene (Surr)	101		80 - 120
Dibromofluoromethane (Surr)	103		80 - 120

Lab Sample ID: LCSD 580-460128/7

Matrix: Water

Analysis Batch: 460128

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	5.00	5.26		ug/L		105	80 - 122	0	14
Toluene	5.00	5.12		ug/L		102	80 - 120	3	13
Ethylbenzene	5.00	5.27		ug/L		105	80 - 120	3	14
m-Xylene & p-Xylene	5.00	5.33		ug/L		107	80 - 120	4	14
o-Xylene	5.00	5.20		ug/L		104	80 - 120	3	16
Xylenes, Total	10.0	10.5		ug/L		105	80 - 120	4	16

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	100		80 - 120
1,2-Dichloroethane-d4 (Surr)	99		80 - 120
4-Bromofluorobenzene (Surr)	101		80 - 120

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QC Sample Results

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

Job ID: 580-140158-1

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

Lab Sample ID: LCSD 580-460128/7

Matrix: Water

Analysis Batch: 460128

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	103		80 - 120

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

Lab Sample ID: MB 580-460124/11

Matrix: Water

Analysis Batch: 460124

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	73	ug/L			05/22/24 04:25	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		77 - 123					05/22/24 04:25	1

Lab Sample ID: LCS 580-460124/8

Matrix: Water

Analysis Batch: 460124

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline	500	518		ug/L		104	55 - 148		
Surrogate	%Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	101		77 - 123						

Lab Sample ID: LCSD 580-460124/9

Matrix: Water

Analysis Batch: 460124

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
Gasoline	500	544		ug/L		109	55 - 148	5	10
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	101		77 - 123						

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

Lab Sample ID: MB 580-460172/1-A

Matrix: Water

Analysis Batch: 460258

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 460172

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.50	0.16	ug/L		05/22/24 08:39	05/22/24 18:33	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Terphenyl-d14	76		29 - 150				05/22/24 08:39	05/22/24 18:33	1

Eurofins Seattle

QC Sample Results

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

Job ID: 580-140158-1

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

Lab Sample ID: LCS 580-460172/2-A

Matrix: Water

Analysis Batch: 460258

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 460172

			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Naphthalene			8.00	4.22		ug/L		53	34 - 120		
Surrogate	LCS	LCS									
	%Recovery	Qualifier	Limits								
Terphenyl-d14	77		29 - 150								

Lab Sample ID: LCSD 580-460172/3-A

Matrix: Water

Analysis Batch: 460258

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 460172

			Spike	LCSD	LCSD				%Rec	RPD	RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Naphthalene			8.00	4.17		ug/L	-	52	34 - 120	1	35
Surrogate	LCSD	LCSD									
	%Recovery	Qualifier	Limits								
Terphenyl-d14	71		29 - 150								

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

Lab Sample ID: MB 580-460290/1-A

Matrix: Water

Analysis Batch: 460301

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 460290

Analysis Date: 10/20/24							Prep Date: 10/20/24		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		200	91	ug/L		05/23/24 08:29	05/24/24 01:22	1
Motor Oil (>C24-C36)	ND		350	130	ug/L		05/23/24 08:29	05/24/24 01:22	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	61		50 - 150				05/23/24 08:29	05/24/24 01:22	1

Lab Sample ID: LCS 580-460290/2-A

Matrix: Water

Analysis Batch: 460301

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 460290

Analysis Data: 10000									
Analyte	Spike Added		LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
#2 Diesel (C10-C24)	4000		3070		ug/L		77	50 - 120	
Motor Oil (>C24-C36)	4000		3250		ug/L		81	64 - 120	
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
o-Terphenyl	81		50 - 150						

Lab Sample ID: LCSD 580-460290/3-A

Matrix: Water

Analysis Batch: 460301

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 460290

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
#2 Diesel (C10-C24)	4000	3250		ug/L		81	50 - 120	6	26
Motor Oil (>C24-C36)	4000	3370		ug/L		84	64 - 120	4	24

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QC Sample Results

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

Job ID: 580-140158-1

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

Lab Sample ID: LCSD 580-460290/3-A
Matrix: Water
Analysis Batch: 460301

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 460290

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	83		50 - 150

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 580-460401/22-A
Matrix: Water
Analysis Batch: 460646

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 460401

Analyte	MB	MB								
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Lead	ND		0.40	0.040	ug/L		05/23/24 18:03	05/24/24 17:38		1

Lab Sample ID: LCS 580-460401/23-A
Matrix: Water
Analysis Batch: 460646

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 460401

Analyte		Spike	LCS	LCS				%Rec		
		Added	Result	Qualifier	Unit	D	%Rec	Limits		
Lead		1000	952		ug/L		95	80 - 120		

Lab Sample ID: LCSD 580-460401/24-A
Matrix: Water
Analysis Batch: 460646

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 460401

Analyte		Spike	LCSD	LCSD				%Rec		RPD
		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Lead		1000	961		ug/L		96	80 - 120	1	20

Lab Sample ID: 580-140123-B-1-C MS
Matrix: Water
Analysis Batch: 460646

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 460401

Analyte	Sample	Sample	Spike	MS	MS			%Rec		
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Lead	ND		1000	954		ug/L		95	80 - 120	

Lab Sample ID: 580-140123-B-1-D MSD
Matrix: Water
Analysis Batch: 460646

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 460401

Analyte	Sample	Sample	Spike	MSD	MSD			%Rec		RPD
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	Limit
Lead	ND		1000	969		ug/L		97	80 - 120	20

Lab Sample ID: 580-140123-B-1-B DU
Matrix: Water
Analysis Batch: 460646

Client Sample ID: Duplicate
Prep Type: Total Recoverable
Prep Batch: 460401

Analyte	Sample	Sample		DU	DU					RPD
	Result	Qualifier		Result	Qualifier	Unit	D			Limit
Lead	ND			ND		ug/L			NC	20

QC Sample Results

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

Job ID: 580-140158-1

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

Lab Sample ID: 580-140158-1 MS
Matrix: Water
Analysis Batch: 460646

Client Sample ID: MW-1_20240516
Prep Type: Dissolved
Prep Batch: 460270

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	ND		1000	1010		ug/L		101	80 - 120

Lab Sample ID: 580-140158-1 MSD
Matrix: Water
Analysis Batch: 460646

Client Sample ID: MW-1_20240516
Prep Type: Dissolved
Prep Batch: 460270

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	ND		1000	986		ug/L		99	80 - 120	2	20

Lab Sample ID: 580-140158-1 DU
Matrix: Water
Analysis Batch: 460646

Client Sample ID: MW-1_20240516
Prep Type: Dissolved
Prep Batch: 460270

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: 580-140158-1

GC/MS VOA

Analysis Batch: 460124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-140158-1	MW-1_20240516	Total/NA	Water	NWTPH-Gx	
580-140158-3	MW-12_20240516	Total/NA	Water	NWTPH-Gx	
580-140158-4	MW-13_20240516	Total/NA	Water	NWTPH-Gx	
580-140158-5	MW-14_20240516	Total/NA	Water	NWTPH-Gx	
580-140158-6	MW-15_20240516	Total/NA	Water	NWTPH-Gx	
580-140158-7	MW-16_20240516	Total/NA	Water	NWTPH-Gx	
580-140158-8	Trip Blank_20240516	Total/NA	Water	NWTPH-Gx	
MB 580-460124/11	Method Blank	Total/NA	Water	NWTPH-Gx	
LCS 580-460124/8	Lab Control Sample	Total/NA	Water	NWTPH-Gx	
LCSD 580-460124/9	Lab Control Sample Dup	Total/NA	Water	NWTPH-Gx	

Analysis Batch: 460128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-140158-1	MW-1_20240516	Total/NA	Water	8260D	
580-140158-4	MW-13_20240516	Total/NA	Water	8260D	
580-140158-5	MW-14_20240516	Total/NA	Water	8260D	
580-140158-6	MW-15_20240516	Total/NA	Water	8260D	
580-140158-7	MW-16_20240516	Total/NA	Water	8260D	
580-140158-8	Trip Blank_20240516	Total/NA	Water	8260D	
MB 580-460128/11	Method Blank	Total/NA	Water	8260D	
LCS 580-460128/6	Lab Control Sample	Total/NA	Water	8260D	
LCSD 580-460128/7	Lab Control Sample Dup	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 460172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-140158-4	MW-13_20240516	Total/NA	Water	3510C	
580-140158-5	MW-14_20240516	Total/NA	Water	3510C	
580-140158-6	MW-15_20240516	Total/NA	Water	3510C	
580-140158-7	MW-16_20240516	Total/NA	Water	3510C	
MB 580-460172/1-A	Method Blank	Total/NA	Water	3510C	
LCS 580-460172/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 580-460172/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 460258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-140158-4	MW-13_20240516	Total/NA	Water	8270E SIM	460172
580-140158-5	MW-14_20240516	Total/NA	Water	8270E SIM	460172
580-140158-6	MW-15_20240516	Total/NA	Water	8270E SIM	460172
580-140158-7	MW-16_20240516	Total/NA	Water	8270E SIM	460172
MB 580-460172/1-A	Method Blank	Total/NA	Water	8270E SIM	460172
LCS 580-460172/2-A	Lab Control Sample	Total/NA	Water	8270E SIM	460172
LCSD 580-460172/3-A	Lab Control Sample Dup	Total/NA	Water	8270E SIM	460172

GC Semi VOA

Prep Batch: 460290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-140158-1	MW-1_20240516	Total/NA	Water	3510C	
580-140158-3	MW-12_20240516	Total/NA	Water	3510C	
580-140158-4	MW-13_20240516	Total/NA	Water	3510C	

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QC Association Summary

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

Job ID: 580-140158-1

GC Semi VOA (Continued)

Prep Batch: 460290 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-140158-5	MW-14_20240516	Total/NA	Water	3510C	
580-140158-6	MW-15_20240516	Total/NA	Water	3510C	
580-140158-7	MW-16_20240516	Total/NA	Water	3510C	
MB 580-460290/1-A	Method Blank	Total/NA	Water	3510C	
LCS 580-460290/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 580-460290/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 460301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-140158-1	MW-1_20240516	Total/NA	Water	NWTPH-Dx	460290
580-140158-3	MW-12_20240516	Total/NA	Water	NWTPH-Dx	460290
580-140158-4	MW-13_20240516	Total/NA	Water	NWTPH-Dx	460290
580-140158-5	MW-14_20240516	Total/NA	Water	NWTPH-Dx	460290
580-140158-6	MW-15_20240516	Total/NA	Water	NWTPH-Dx	460290
580-140158-7	MW-16_20240516	Total/NA	Water	NWTPH-Dx	460290
MB 580-460290/1-A	Method Blank	Total/NA	Water	NWTPH-Dx	460290
LCS 580-460290/2-A	Lab Control Sample	Total/NA	Water	NWTPH-Dx	460290
LCSD 580-460290/3-A	Lab Control Sample Dup	Total/NA	Water	NWTPH-Dx	460290

Metals

Filtration Batch: 460116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-140158-1	MW-1_20240516	Dissolved	Water	FILTRATION	
580-140158-3	MW-12_20240516	Dissolved	Water	FILTRATION	
580-140158-4	MW-13_20240516	Dissolved	Water	FILTRATION	
580-140158-5	MW-14_20240516	Dissolved	Water	FILTRATION	
580-140158-6	MW-15_20240516	Dissolved	Water	FILTRATION	
580-140158-7	MW-16_20240516	Dissolved	Water	FILTRATION	
580-140158-1 MS	MW-1_20240516	Dissolved	Water	FILTRATION	
580-140158-1 MSD	MW-1_20240516	Dissolved	Water	FILTRATION	
580-140158-1 DU	MW-1_20240516	Dissolved	Water	FILTRATION	

Prep Batch: 460270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-140158-1	MW-1_20240516	Dissolved	Water	3005A	460116
580-140158-3	MW-12_20240516	Dissolved	Water	3005A	460116
580-140158-4	MW-13_20240516	Dissolved	Water	3005A	460116
580-140158-5	MW-14_20240516	Dissolved	Water	3005A	460116
580-140158-6	MW-15_20240516	Dissolved	Water	3005A	460116
580-140158-7	MW-16_20240516	Dissolved	Water	3005A	460116
580-140158-1 MS	MW-1_20240516	Dissolved	Water	3005A	460116
580-140158-1 MSD	MW-1_20240516	Dissolved	Water	3005A	460116
580-140158-1 DU	MW-1_20240516	Dissolved	Water	3005A	460116

Prep Batch: 460401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-140158-1	MW-1_20240516	Total Recoverable	Water	3005A	
580-140158-3	MW-12_20240516	Total Recoverable	Water	3005A	
580-140158-4	MW-13_20240516	Total Recoverable	Water	3005A	
580-140158-5	MW-14_20240516	Total Recoverable	Water	3005A	

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QC Association Summary

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

Job ID: 580-140158-1

Metals (Continued)

Prep Batch: 460401 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-140158-6	MW-15_20240516	Total Recoverable	Water	3005A	
580-140158-7	MW-16_20240516	Total Recoverable	Water	3005A	
MB 580-460401/22-A	Method Blank	Total Recoverable	Water	3005A	
LCS 580-460401/23-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 580-460401/24-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	
580-140123-B-1-C MS	Matrix Spike	Total Recoverable	Water	3005A	
580-140123-B-1-D MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	
580-140123-B-1-B DU	Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 460646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-140158-1	MW-1_20240516	Dissolved	Water	6020B	460270
580-140158-1	MW-1_20240516	Total Recoverable	Water	6020B	460401
580-140158-3	MW-12_20240516	Dissolved	Water	6020B	460270
580-140158-3	MW-12_20240516	Total Recoverable	Water	6020B	460401
580-140158-4	MW-13_20240516	Dissolved	Water	6020B	460270
580-140158-4	MW-13_20240516	Total Recoverable	Water	6020B	460401
580-140158-5	MW-14_20240516	Dissolved	Water	6020B	460270
580-140158-5	MW-14_20240516	Total Recoverable	Water	6020B	460401
580-140158-6	MW-15_20240516	Dissolved	Water	6020B	460270
580-140158-6	MW-15_20240516	Total Recoverable	Water	6020B	460401
580-140158-7	MW-16_20240516	Dissolved	Water	6020B	460270
580-140158-7	MW-16_20240516	Total Recoverable	Water	6020B	460401
MB 580-460401/22-A	Method Blank	Total Recoverable	Water	6020B	460401
LCS 580-460401/23-A	Lab Control Sample	Total Recoverable	Water	6020B	460401
LCSD 580-460401/24-A	Lab Control Sample Dup	Total Recoverable	Water	6020B	460401
580-140123-B-1-C MS	Matrix Spike	Total Recoverable	Water	6020B	460401
580-140123-B-1-D MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	460401
580-140158-1 MS	MW-1_20240516	Dissolved	Water	6020B	460270
580-140158-1 MSD	MW-1_20240516	Dissolved	Water	6020B	460270
580-140123-B-1-B DU	Duplicate	Total Recoverable	Water	6020B	460401
580-140158-1 DU	MW-1_20240516	Dissolved	Water	6020B	460270

Lab Chronicle

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

Job ID: 580-140158-1

Client Sample ID: MW-1_20240516

Lab Sample ID: 580-140158-1

Date Collected: 05/16/24 13:35

Matrix: Water

Date Received: 05/17/24 10:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	460128	AA	EET SEA	05/22/24 09:03
Total/NA	Analysis	NWTPH-Gx		1	460124	AA	EET SEA	05/22/24 09:03
Total/NA	Prep	3510C			460290	SL	EET SEA	05/23/24 08:29
Total/NA	Analysis	NWTPH-Dx		1	460301	SW	EET SEA	05/24/24 02:23
Dissolved	Filtration	FILTRATION			460116	MJ	EET SEA	05/21/24 16:38
Dissolved	Prep	3005A			460270	MCMS	EET SEA	05/22/24 18:10
Dissolved	Analysis	6020B		5	460646	FCW	EET SEA	05/24/24 15:49
Total Recoverable	Prep	3005A			460401	TMH	EET SEA	05/23/24 18:03
Total Recoverable	Analysis	6020B		5	460646	FCW	EET SEA	05/24/24 18:22

Client Sample ID: MW-12_20240516

Lab Sample ID: 580-140158-3

Date Collected: 05/16/24 14:05

Matrix: Water

Date Received: 05/17/24 10:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NWTPH-Gx		1	460124	AA	EET SEA	05/22/24 11:21
Total/NA	Prep	3510C			460290	SL	EET SEA	05/23/24 08:29
Total/NA	Analysis	NWTPH-Dx		1	460301	SW	EET SEA	05/24/24 02:43
Dissolved	Filtration	FILTRATION			460116	MJ	EET SEA	05/21/24 16:38
Dissolved	Prep	3005A			460270	MCMS	EET SEA	05/22/24 18:10
Dissolved	Analysis	6020B		5	460646	FCW	EET SEA	05/24/24 16:13
Total Recoverable	Prep	3005A			460401	TMH	EET SEA	05/23/24 18:03
Total Recoverable	Analysis	6020B		5	460646	FCW	EET SEA	05/24/24 18:25

Client Sample ID: MW-13_20240516

Lab Sample ID: 580-140158-4

Date Collected: 05/16/24 10:30

Matrix: Water

Date Received: 05/17/24 10:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	460128	AA	EET SEA	05/22/24 09:49
Total/NA	Analysis	NWTPH-Gx		1	460124	AA	EET SEA	05/22/24 09:49
Total/NA	Prep	3510C			460172	TOA	EET SEA	05/22/24 08:39
Total/NA	Analysis	8270E SIM		1	460258	T1L	EET SEA	05/23/24 02:27
Total/NA	Prep	3510C			460290	SL	EET SEA	05/23/24 08:29
Total/NA	Analysis	NWTPH-Dx		1	460301	SW	EET SEA	05/24/24 03:04
Dissolved	Filtration	FILTRATION			460116	MJ	EET SEA	05/21/24 16:38
Dissolved	Prep	3005A			460270	MCMS	EET SEA	05/22/24 18:10
Dissolved	Analysis	6020B		5	460646	FCW	EET SEA	05/24/24 16:21
Total Recoverable	Prep	3005A			460401	TMH	EET SEA	05/23/24 18:03
Total Recoverable	Analysis	6020B		5	460646	FCW	EET SEA	05/24/24 18:27

Lab Chronicle

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

Job ID: 580-140158-1

Client Sample ID: MW-14_20240516

Lab Sample ID: 580-140158-5

Date Collected: 05/16/24 15:15

Matrix: Water

Date Received: 05/17/24 10:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	460128	AA	EET SEA	05/22/24 12:08
Total/NA	Analysis	NWTPH-Gx		10	460124	AA	EET SEA	05/22/24 12:08
Total/NA	Prep	3510C			460172	TOA	EET SEA	05/22/24 08:39
Total/NA	Analysis	8270E SIM		1	460258	T1L	EET SEA	05/23/24 02:51
Total/NA	Prep	3510C			460290	SL	EET SEA	05/23/24 08:29
Total/NA	Analysis	NWTPH-Dx		1	460301	SW	EET SEA	05/24/24 03:24
Dissolved	Filtration	FILTRATION			460116	MJ	EET SEA	05/21/24 16:38
Dissolved	Prep	3005A			460270	MCMS	EET SEA	05/22/24 18:10
Dissolved	Analysis	6020B		5	460646	FCW	EET SEA	05/24/24 16:16
Total Recoverable	Prep	3005A			460401	TMH	EET SEA	05/23/24 18:03
Total Recoverable	Analysis	6020B		5	460646	FCW	EET SEA	05/24/24 18:19

Client Sample ID: MW-15_20240516

Lab Sample ID: 580-140158-6

Date Collected: 05/16/24 12:40

Matrix: Water

Date Received: 05/17/24 10:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	460128	AA	EET SEA	05/22/24 11:45
Total/NA	Analysis	NWTPH-Gx		1	460124	AA	EET SEA	05/22/24 11:45
Total/NA	Prep	3510C			460172	TOA	EET SEA	05/22/24 08:39
Total/NA	Analysis	8270E SIM		1	460258	T1L	EET SEA	05/23/24 03:16
Total/NA	Prep	3510C			460290	SL	EET SEA	05/23/24 08:29
Total/NA	Analysis	NWTPH-Dx		1	460301	SW	EET SEA	05/24/24 03:44
Dissolved	Filtration	FILTRATION			460116	MJ	EET SEA	05/21/24 16:38
Dissolved	Prep	3005A			460270	MCMS	EET SEA	05/22/24 18:10
Dissolved	Analysis	6020B		5	460646	FCW	EET SEA	05/24/24 16:27
Total Recoverable	Prep	3005A			460401	TMH	EET SEA	05/23/24 18:03
Total Recoverable	Analysis	6020B		5	460646	FCW	EET SEA	05/24/24 18:17

Client Sample ID: MW-16_20240516

Lab Sample ID: 580-140158-7

Date Collected: 05/16/24 09:40

Matrix: Water

Date Received: 05/17/24 10:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	460128	AA	EET SEA	05/22/24 10:12
Total/NA	Analysis	NWTPH-Gx		1	460124	AA	EET SEA	05/22/24 10:12
Total/NA	Prep	3510C			460172	TOA	EET SEA	05/22/24 08:39
Total/NA	Analysis	8270E SIM		1	460258	T1L	EET SEA	05/23/24 03:41
Total/NA	Prep	3510C			460290	SL	EET SEA	05/23/24 08:29
Total/NA	Analysis	NWTPH-Dx		1	460301	SW	EET SEA	05/24/24 04:04
Dissolved	Filtration	FILTRATION			460116	MJ	EET SEA	05/21/24 16:38
Dissolved	Prep	3005A			460270	MCMS	EET SEA	05/22/24 18:10
Dissolved	Analysis	6020B		5	460646	FCW	EET SEA	05/24/24 16:24
Total Recoverable	Prep	3005A			460401	TMH	EET SEA	05/23/24 18:03
Total Recoverable	Analysis	6020B		5	460646	FCW	EET SEA	05/24/24 18:14

Eurofins Seattle

Lab Chronicle

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

Job ID: 580-140158-1

Client Sample ID: Trip Blank_20240516
Date Collected: 05/16/24 00:00
Date Received: 05/17/24 10:47

Lab Sample ID: 580-140158-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	460128	AA	EET SEA	05/22/24 07:07
Total/NA	Analysis	NWTPH-Gx		1	460124	AA	EET SEA	05/22/24 07:07

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

Accreditation/Certification Summary

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

Job ID: 580-140158-1

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

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Method Summary

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

Job ID: 580-140158-1

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: 580-140158-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-140158-1	MW-1_20240516	Water	05/16/24 13:35	05/17/24 10:47
580-140158-3	MW-12_20240516	Water	05/16/24 14:05	05/17/24 10:47
580-140158-4	MW-13_20240516	Water	05/16/24 10:30	05/17/24 10:47
580-140158-5	MW-14_20240516	Water	05/16/24 15:15	05/17/24 10:47
580-140158-6	MW-15_20240516	Water	05/16/24 12:40	05/17/24 10:47
580-140158-7	MW-16_20240516	Water	05/16/24 09:40	05/17/24 10:47
580-140158-8	Trip Blank_20240516	Water	05/16/24 00:00	05/17/24 10:47

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

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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: 580-140158-1

Login Number: 140158

List Number: 1

Creator: Harp, Cordelia

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.: 580-140158-1

SDG No.:

Batch Number: 460128 Batch Start Date: 05/22/24 00:57 Batch Analyst: Abando, Ariyana

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Initial pH	5X SUR/IS 00041	VOAMasterSEC 00092	
LCS 580-460128/6		8260D			10 mL	10 mL		10 uL	5 uL	
LCSD 580-460128/7		8260D			10 mL	10 mL		10 uL	5 uL	
MB 580-460128/11		8260D			10 mL	10 mL		10 uL		
580-140158-B-8	Trip Blank 20240516	8260D	Water	T	10 mL	10 mL		10 uL		
580-140158-E-1	MW-1_20240516	8260D	Water	T	10 mL	10 mL	<2 SU	10 uL		
580-140158-K-4	MW-13_20240516	8260D	Water	T	10 mL	10 mL	<2 SU	10 uL		
580-140158-G-7	MW-16_20240516	8260D	Water	T	10 mL	10 mL	<2 SU	10 uL		
580-140158-J-6	MW-15_20240516	8260D	Water	T	10 mL	10 mL	<2 SU	10 uL		
580-140158-G-5	MW-14_20240516	8260D	Water	T	10 mL	10 mL	<2 SU	10 uL		

Batch Notes	
pH Indicator ID	226322
Vial Lot Number	0101601J

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.

GASOLINE RANGE ORGANICS BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-140158-1

SDG No.: _____

Batch Number: 460124 Batch Start Date: 05/22/24 00:57 Batch Analyst: Abando, AriyanaBatch Method: NWTPH-Gx Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Initial pH	5X SUR/IS 00041	GRO_LCSIntLt2 _00001	
LCS 580-460124/8		NWTPH-Gx			10 mL	10 mL		10 uL	12.5 uL	
LCSD 580-460124/9		NWTPH-Gx			10 mL	10 mL		10 uL	12.5 uL	
MB 580-460124/11		NWTPH-Gx			10 mL	10 mL		10 uL		
580-140158-B-8	Trip Blank 20240516	NWTPH-Gx	Water	T	10 mL	10 mL		10 uL		
580-140158-E-1	MW-1_20240516	NWTPH-Gx	Water	T	10 mL	10 mL	<2 SU	10 uL		
580-140158-K-4	MW-13_20240516	NWTPH-Gx	Water	T	10 mL	10 mL	<2 SU	10 uL		
580-140158-G-7	MW-16_20240516	NWTPH-Gx	Water	T	10 mL	10 mL	<2 SU	10 uL		
580-140158-E-3	MW-12_20240516	NWTPH-Gx	Water	T	10 mL	10 mL	<2 SU	10 uL		
580-140158-J-6	MW-15_20240516	NWTPH-Gx	Water	T	10 mL	10 mL	<2 SU	10 uL		
580-140158-G-5	MW-14_20240516	NWTPH-Gx	Water	T	10 mL	10 mL	<2 SU	10 uL		

Batch Notes

pH Indicator ID	226322
Vial Lot Number	0101601J

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

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GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins SeattleJob No.: 580-140158-1

SDG No.: _____

Batch Number: 460172Batch Start Date: 05/22/24 08:39Batch Analyst: Anderson, Tess OBatch Method: 3510CBatch End Date: 05/22/24 13:34

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 580-460172/1		3510C, 8270E SIM					250 mL	1 mL	7 SU	2 SU
LCS 580-460172/2		3510C, 8270E SIM					250 mL	1 mL	7 SU	2 SU
LCSD 580-460172/3		3510C, 8270E SIM					250 mL	1 mL	7 SU	2 SU
580-140158-A-4	MW-13_20240516	3510C, 8270E SIM	Water	T	00414.89 g	00170.77 g	244.1 mL	1 mL	7 SU	2 SU
580-140158-A-5	MW-14_20240516	3510C, 8270E SIM	Water	T	00410.67 g	00170.43 g	240.2 mL	1 mL	7 SU	2 SU
580-140158-A-6	MW-15_20240516	3510C, 8270E SIM	Water	T	00416.25 g	00170.73 g	245.5 mL	1 mL	7 SU	2 SU
580-140158-A-7	MW-16_20240516	3510C, 8270E SIM	Water	T	00419.00 g	00171.41 g	247.6 mL	1 mL	7 SU	2 SU

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	SecondAdjustpH	8270water_spk 00034	8270waterSurr 00158			
MB 580-460172/1		3510C, 8270E SIM			n/a SU		100 uL			
LCS 580-460172/2		3510C, 8270E SIM			n/a SU	50 uL	100 uL			
LCSD 580-460172/3		3510C, 8270E SIM			n/a SU	50 uL	100 uL			
580-140158-A-4	MW-13_20240516	3510C, 8270E SIM	Water	T	n/a SU		100 uL			
580-140158-A-5	MW-14_20240516	3510C, 8270E SIM	Water	T	n/a SU		100 uL			
580-140158-A-6	MW-15_20240516	3510C, 8270E SIM	Water	T	n/a SU		100 uL			
580-140158-A-7	MW-16_20240516	3510C, 8270E SIM	Water	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

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GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-140158-1

SDG No.: _____

Batch Number: 460172 Batch Start Date: 05/22/24 08:39 Batch Analyst: Anderson, Tess OBatch Method: 3510C Batch End Date: 05/22/24 13:34

Batch Notes	
Method/Fraction	3510C_LVI/8270E_SIM
Balance ID	SEA225
Balance is Level? (Y/N)	yes
pH Indicator ID	10BDH3421/6105009/6204001
Pipette/Syringe/Dispenser ID	E4/E3
Analyst ID - Extraction	JW
Reagent Water ID	DI
Analyst ID - Spike Analyst	JW
Sufficient Volume for Batch QC	no
Acid Used for pH Adjustment ID	3548691
Prep Solvent ID	MeCl_CT_00274
Prep Solvent Volume Used	100 mL
Filter ID	09-790-12F
Na2SO4 ID	baked Na2SO4_00487
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	DIGITAL READOUT
Concentration 2 Uncorrected Temperature	42 Degrees C
Concentration 2 Corrected Temperature	40 Degrees C
Vial Lot Number	13-09-1335
Pipette Tip Lot ID	14672-200
Batch Comment	vialed by:SL Reviewed by: 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.

8270E SIM

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HYDROCARBONS BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-140158-1

SDG No.: _____

Batch Number: 460290 Batch Start Date: 05/23/24 08:29 Batch Analyst: Ledesma, SantiagoBatch Method: 3510C Batch End Date: 05/23/24 12:49

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 580-460290/1		3510C, NWTPH-Dx					250 mL	2 mL	7 SU	2 SU
LCS 580-460290/2		3510C, NWTPH-Dx					250 mL	2 mL	7 SU	2 SU
LCSD 580-460290/3		3510C, NWTPH-Dx					250 mL	2 mL	7 SU	2 SU
580-140158-B-1	MW-1_20240516	3510C, NWTPH-Dx	Water	T	00408.40 g	00167.51 g	240.9 mL	2 mL	2 SU	n/a SU
580-140158-A-3	MW-12_20240516	3510C, NWTPH-Dx	Water	T	00416.63 g	00168.38 g	248.3 mL	2 mL	2 SU	n/a SU
580-140158-D-4	MW-13_20240516	3510C, NWTPH-Dx	Water	T	00416.88 g	00167.60 g	249.3 mL	2 mL	2 SU	n/a SU
580-140158-D-5	MW-14_20240516	3510C, NWTPH-Dx	Water	T	00411.29 g	00169.67 g	241.6 mL	2 mL	2 SU	n/a SU
580-140158-D-6	MW-15_20240516	3510C, NWTPH-Dx	Water	T	00416.78 g	00169.60 g	247.2 mL	2 mL	2 SU	n/a SU
580-140158-D-7	MW-16_20240516	3510C, NWTPH-Dx	Water	T	00406.24 g	00169.16 g	237.1 mL	2 mL	2 SU	n/a SU

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	SecondAdjustpH	TPH_Water_Spk 00042	TPH_WaterSurr 00112			
MB 580-460290/1		3510C, NWTPH-Dx			n/a SU		100 uL			
LCS 580-460290/2		3510C, NWTPH-Dx			n/a SU	100 uL	100 uL			
LCSD 580-460290/3		3510C, NWTPH-Dx			n/a SU	100 uL	100 uL			
580-140158-B-1	MW-1_20240516	3510C, NWTPH-Dx	Water	T	n/a SU		100 uL			
580-140158-A-3	MW-12_20240516	3510C, NWTPH-Dx	Water	T	n/a SU		100 uL			
580-140158-D-4	MW-13_20240516	3510C, NWTPH-Dx	Water	T	n/a SU		100 uL			
580-140158-D-5	MW-14_20240516	3510C, NWTPH-Dx	Water	T	n/a SU		100 uL			
580-140158-D-6	MW-15_20240516	3510C, NWTPH-Dx	Water	T	n/a SU		100 uL			
580-140158-D-7	MW-16_20240516	3510C, NWTPH-Dx	Water	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

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HYDROCARBONS BATCH WORKSHEET

Lab Name: Eurofins SeattleJob No.: 580-140158-1

SDG No.: _____

Batch Number: 460290Batch Start Date: 05/23/24 08:29Batch Analyst: Ledesma, SantiagoBatch Method: 3510CBatch End Date: 05/23/24 12:49

Batch Notes	
Method/Fraction	3510C_LVI_14d/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/JW
Reagent Water ID	DI
Analyst ID - Spike Analyst	SL
Analyst ID - Spike Witness Analyst	JW
Sufficient Volume for Batch QC	no
Acid Used for pH Adjustment ID	3548691
Prep Solvent ID	MeCl_CT_00274
Prep Solvent Volume Used	100 mL
Filter ID	09-790-12F
Na2SO4 ID	baked Na2SO4_00487
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 6
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	vialed by: SL Reviewed by:

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

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HYDROCARBONS BATCH WORKSHEET

Lab Name: Eurofins SeattleJob No.: 580-140158-1

SDG No.: _____

Batch Number: 460290Batch Start Date: 05/23/24 08:29Batch Analyst: Ledesma, SantiagoBatch Method: 3510CBatch End Date: 05/23/24 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.

NWTPH-Dx

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METALS BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-140158-1

SDG No.: _____

Batch Number: 460116 Batch Start Date: 05/21/24 16:37 Batch Analyst: Jessup, MicaelaBatch Method: FILTRATION Batch End Date: 05/21/24 18:02

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount				
580-140158-C-1	MW-1_20240516	FILTRATION, 3005A, 6020B	Water	D	250 mL	250 mL				
580-140158-C-3	MW-12_20240516	FILTRATION, 3005A, 6020B	Water	D	150 mL	150 mL				
580-140158-E-4	MW-13_20240516	FILTRATION, 3005A, 6020B	Water	D	150 mL	150 mL				
580-140158-E-5	MW-14_20240516	FILTRATION, 3005A, 6020B	Water	D	150 mL	150 mL				
580-140158-E-6	MW-15_20240516	FILTRATION, 3005A, 6020B	Water	D	150 mL	150 mL				
580-140158-E-7	MW-16_20240516	FILTRATION, 3005A, 6020B	Water	D	150 mL	150 mL				

Batch Notes	
Filter ID	WHATMAN 0.45 um
Nitric Acid ID	3755033

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

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METALS BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-140158-1

SDG No.: _____

Batch Number: 460270 Batch Start Date: 05/22/24 18:09 Batch Analyst: Miller-Sermenon, MarcoBatch Method: 3005A Batch End Date: 05/23/24 00:35

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	ICP CAL 1 00034	ICP CAL 2 00032	MET Spike 3C 00057	
580-140158-C-1-A	MW-1_20240516	3005A, 6020B	Water	D	50 mL	50 mL				
580-140158-C-1-A DU	MW-1_20240516	3005A, 6020B		D	50 mL	50 mL				
580-140158-C-1-A MS	MW-1_20240516	3005A, 6020B		D	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
580-140158-C-1-A MSD	MW-1_20240516	3005A, 6020B		D	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
580-140158-C-3-A	MW-12_20240516	3005A, 6020B	Water	D	50 mL	50 mL				
580-140158-E-5-A	MW-14_20240516	3005A, 6020B	Water	D	50 mL	50 mL				
580-140158-E-4-A	MW-13_20240516	3005A, 6020B	Water	D	50 mL	50 mL				
580-140158-E-7-A	MW-16_20240516	3005A, 6020B	Water	D	50 mL	50 mL				
580-140158-E-6-A	MW-15_20240516	3005A, 6020B	Water	D	50 mL	50 mL				

Batch Notes	
First Start time	19:35
First End time	00:35
Lot # of hydrochloric acid	3755010
Lot # of Nitric Acid	3755031
Uncorrected Temperature	92 Celsius
Oven, Bath or Block Temperature 1	90.9
Uncorrected Temperature 2	92 Celsius
Oven, Bath or Block Temperature 2	90.9
Hot Block ID	BLOCK A
Digestion Tube/Cup ID	3736680
Thermometer Location ID	A33
Thermometer ID	1108438
Pipette ID	Metals Prep 2
Analyst ID - Spike Witness Analyst	TH - MM

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

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METALS BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-140158-1

SDG No.: _____

Batch Number: 460270 Batch Start Date: 05/22/24 18:09 Batch Analyst: Miller-Sermen, Marco

Batch Method: 3005A Batch End Date: 05/23/24 00:35

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

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METALS BATCH WORKSHEET

Lab Name: Eurofins SeattleJob No.: 580-140158-1

SDG No.: _____

Batch Number: 460401Batch Start Date: 05/23/24 18:03Batch Analyst: Hua, Tammy MBatch Method: 3005ABatch End Date: 05/23/24 23:13

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	ICP CAL 1 00034	ICP CAL 2 00032	MET Spike 3C 00058	
580-140123-B-1		3005A, 6020B		R	50 mL	50 mL				
580-140123-B-1 DU		3005A, 6020B		R	50 mL	50 mL				
580-140123-B-1 MS		3005A, 6020B		R	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
580-140123-B-1 MSD		3005A, 6020B		R	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
580-140158-D-1	MW-1_20240516	3005A, 6020B	Water	R	50 mL	50 mL				
580-140158-D-3	MW-12_20240516	3005A, 6020B	Water	R	50 mL	50 mL				
580-140158-F-4	MW-13_20240516	3005A, 6020B	Water	R	50 mL	50 mL				
580-140158-F-5	MW-14_20240516	3005A, 6020B	Water	R	50 mL	50 mL				
580-140158-F-6	MW-15_20240516	3005A, 6020B	Water	R	50 mL	50 mL				
580-140158-F-7	MW-16_20240516	3005A, 6020B	Water	R	50 mL	50 mL				
MB 580-460401/22		3005A, 6020B			50 mL	50 mL				
LCS 580-460401/23		3005A, 6020B			50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
LCSD 580-460401/24		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

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METALS BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-140158-1

SDG No.: _____

Batch Number: 460401 Batch Start Date: 05/23/24 18:03 Batch Analyst: Hua, Tammy MBatch Method: 3005A Batch End Date: 05/23/24 23:13

Batch Notes	
Digestion Tube/Cup ID	3736682
Pipette/Syringe/Dispenser ID	metals prep 2
Analyst ID - Spike Witness Analyst	TH - CS
Sufficient Volume for Batch QC	Yes
Hydrochloric Acid ID	3768979
Nitric Acid ID	3755794
Digestion Unit ID	BLOCK A
Thermometer ID	1108438
Thermometer Location ID	A33
Temperature - Uncorrected - Start	98 Degrees C
Temperature - Corrected - Start	96.9 Degrees C
Digestion Start Time	05/23/2024 19:13
Digestion End Time	05/23/2024 23:13
Temperature - Uncorrected - End	98 Degrees C
Temperature - Corrected - End	96.9 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

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