Remediation Management Services Company

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

February 10. 2022

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

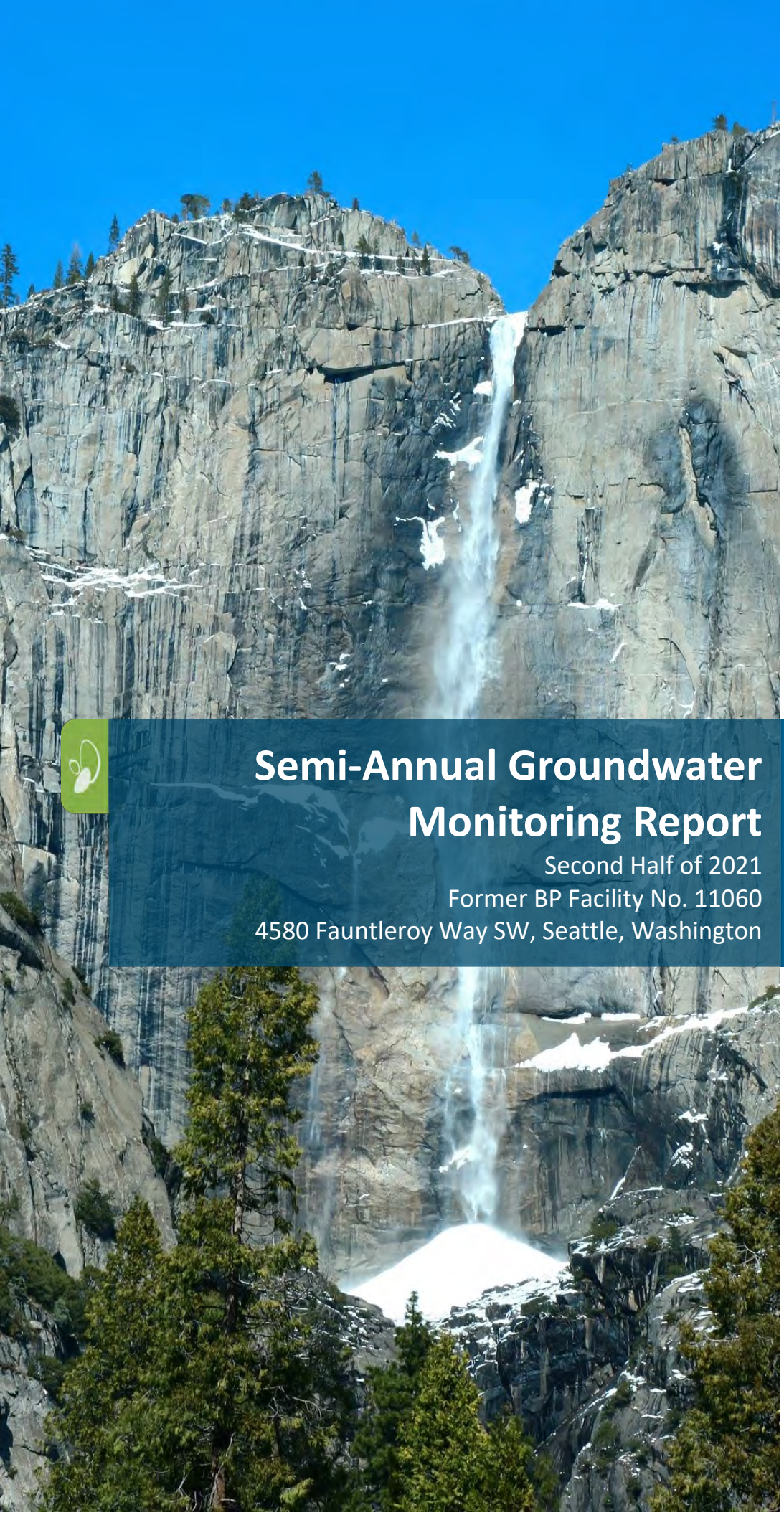
Dear Mr. Michael Warfel:

Please find the enclosed Semi-Annual Groundwater Monitoring Report – Second Half of 2021, that documents the results at Former BP Facility No. 11060 located at 4580 Fauntleroy Way SW, Seattle, Washington.

Sincerely yours,

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

cc: File, Antea Group



Semi-Annual Groundwater Monitoring Report

Second Half of 2021
Former BP Facility No. 11060
4580 Fauntleroy Way SW, Seattle, Washington

Antea®Group

Understanding today.
Improving tomorrow.

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

PREPARED BY
Antea Group – Seattle, WA
February 10, 2022
Project # WA – 11060 Seattle

us.anteagroup.com

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Semi-Annual Groundwater Monitoring Report

Second Half of 2021
Former BP Facility No. 11060
4580 Fauntleroy Way SW, Seattle, Washington

Former BP Facility No.	11060
Address	4580 Fauntleroy Way SW, Seattle, Washington
Atlantic Richfield Project Manager	Wade Melton, +1 360 594 7978
Consulting Co. /Contact Person	Antea Group / Megan Richard, +1 206 854 0399
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 SECOND HALF OF 2021

- Antea Group performed air-sparge pilot tests July 7 to 9 and September 31 to October 1, 2021.
- Antea Group conducted remediation system O&M on July 8, August 18, August 31, September 17, October 26, November 17, and December 6, 2021
- Antea Group conducted quarterly groundwater monitoring and sampling on September 13, 2021 and December 7, 2021.
- Antea Group prepared this semi-annual groundwater monitoring report.

WORK SCHEDULED FOR FIRST HALF OF 2022

- Antea Group will conduct semi-annual groundwater monitoring and sampling.
- Antea Group will conduct remediation system operation and maintenance (O&M).
- Antea Group will prepare a semi-annual groundwater monitoring report.

Current Phase of Project	Remediation	
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	Soil Vapor Extraction (SVE) system operation	
Approximate Depth to Groundwater	September 13, 2021 December 7, 2021	24.60 to 27.40 ft. bgs. 14.09 to 26.55 ft. bgs.
Groundwater Gradient	September 13, 2021 December 7, 2021	Northeast, 0.03 ft./linear ft. East, 0.07 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

Date: February 10, 2022

Jonah Leurquin
Project Professional

Reviewed by:

Date: February 10, 2022

Megan Richard, LG
Senior Project Manager

cc: Mr. Michael Warfel, Washington Department of Ecology, Northwest Regional Office (Hardcopy, Electronic Copy)
Mr. Richard Wright, Jackson Energy (Electronic Copy)
Mr. Wade Melton, Remediation Management Services Company (Electronic Copy - RMO Upload)
File, Antea Group

CONTACT INFORMATION

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Tables

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

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
AS-1	5/7/2015	--	23.30	NP	--	--	NS
AS-1	3/2/2016	--	23.31	NP	--	--	NS
AS-2	3/2/2016	--	21.18	NP	--	--	NS
AS-3	3/2/2016	--	21.63	NP	--	--	NS
AS-4	3/2/2016	--	21.65	NP	--	--	NS
AS-5	3/2/2016	--	--	--	--	--	Dry
AS-6	3/2/2016	--	25.61	NP	--	--	NS
CW-2	3/2/2016	--	19.53	NP	--	--	NS
CW-3	3/2/2016	--	21.57	NP	--	--	NS
CW-4	3/2/2016	--	20.61	NP	--	--	NS
EW-1	5/9/2013	268.20	24.49	24.32	0.17	243.84	--
EW-1	5/7/2015	268.20	25.75	24.73	1.02	243.22	--
EW-1	3/2/2016	268.20	24.81	NP	--	243.39	NS
EW-1	6/6/2016	268.20	25.94	25.28	0.66	242.76	--
EW-1	9/12/2016	268.20	26.89	26.16	0.73	241.86	--
EW-1	12/12/2016	268.20	25.49	24.70	0.79	243.30	--
EW-1	2/22/2017	268.20	24.98	24.20	0.78	243.81	--
EW-1	8/29/2017	268.20	26.28	25.68	0.60	242.37	--
EW-1	10/25/2018	268.20	27.52	NP	--	240.68	NS
EW-1	2/20/2019	268.20	26.85	NP	--	241.35	NS
EW-1	5/14/2019	268.20	27.18	NP	--	241.02	NS
EW-1	8/27/2019	268.20	27.83	NP	--	240.37	NS

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Former BP Facility No. 11060
4580 Fauntleroy Way SW., Seattle, WA 98126

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
EW-1	11/25/2019	268.20	27.84	NP	--	240.36	NS
EW-1	3/25/2020	268.20	26.50	NP	--	241.70	NS
EW-1	8/6/2020	268.20	26.85	NP	--	241.35	NS
EW-2	5/9/2013	267.93	24.11	NP	--	243.82	NS
EW-2	5/7/2015	267.93	24.78	NP	--	243.15	NS
EW-2	3/2/2016	267.93	24.80	NP	--	243.13	NS
EW-2	6/6/2016	267.93	25.17	NP	--	242.76	NS
EW-2	9/12/2016	267.93	26.22	NP	--	241.71	NS
EW-2	12/12/2016	267.93	24.64	NP	--	243.29	NS
EW-2	2/22/2017	267.93	24.10	NP	--	243.83	NS
EW-2	8/29/2017	267.93	25.56	NP	--	242.37	NS
EW-2	10/25/2018	267.93	27.30	NP	--	240.63	NS
EW-2	2/20/2019	267.93	26.52	NP	--	241.41	NS
EW-2	5/14/2019	267.93	26.96	NP	--	240.97	NS
EW-2	8/27/2019	267.93	27.65	NP	--	240.28	NS
EW-2	11/25/2019	267.93	27.81	NP	--	240.12	NS
EW-2	3/25/2020	267.93	26.21	NP	--	241.72	NS
EW-2	8/6/2020	267.93	26.61	NP	--	241.32	NS
EW-3	5/9/2013	268.50	24.90	24.59	0.31	243.83	--
EW-3	5/7/2015	268.50	25.77	23.23	2.54	244.64	--
EW-3	3/2/2016	268.50	25.44	25.19	0.25	243.25	--
EW-3	9/12/2016	268.50	27.17	25.63	1.54	242.49	--
EW-3	12/12/2016	268.50	25.58	24.75	0.83	243.54	--
EW-3	2/22/2017	268.50	25.06	24.22	0.84	244.07	--
EW-3	8/29/2017	268.50	26.75	25.99	0.76	242.32	--
EW-3	10/25/2018	268.50	27.81	NP	--	240.69	NS
EW-3	2/20/2019	268.50	26.93	NP	--	241.57	NS
EW-3	5/14/2019	268.50	27.45	NP	--	241.05	NS
EW-3	8/27/2019	268.50	27.98	NP	--	240.52	NS

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Groundwater Gauging Data
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4580 Fauntleroy Way SW., Seattle, WA 98126

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
EW-3	11/25/2019	268.50	27.98	NP	--	240.52	NS
EW-3	3/25/2020	268.50	26.69	NP	--	241.81	NS
EW-3	8/6/2020	268.50	27.11	NP	--	241.39	NS
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	265.63	24.34	NP	--	241.29	--
GMW-1	5/13/2019	265.63	25.28	NP	--	240.35	--
GMW-1	8/27/2019	265.63	26.68	NP	--	238.95	--
GMW-1	11/25/2019	265.63	26.95	26.90	0.05	238.72	NS
GMW-1	3/25/2020	265.63	24.91	NP	--	240.72	--
GMW-1	6/2/2020	265.63	25.05	NP	--	240.58	--
GMW-1	8/6/2020	265.63	25.92	NP	--	239.71	--
GMW-1	12/10/2020	265.63	25.50	25.49	0.01	240.14	--
GMW-1	3/8/2021	265.63	23.35	NP	--	242.28	--
GMW-1	6/9/2021	265.63	24.62	NP	--	241.01	--

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

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
GMW-1	9/13/2021	265.63	26.70	NP	--	238.93	--
GMW-1	12/7/2021	265.63	24.55	NP	--	241.08	--
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	--

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

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-1	3/20/2002	99.89	22.88	NP	--	77.01	--
MW-1	6/11/2002	99.89	23.02	NP	--	76.87	--
MW-1	12/21/2002	99.89	24.54	NP	--	75.35	NS
MW-1	3/19/2003	99.89	24.50	NP	--	75.39	NS
MW-1	6/18/2003	99.89	24.36	NP	--	75.53	NS
MW-1	9/23/2003	99.89	--	--	--	--	NS
MW-1	10/21/2003	99.89	25.04	NP	--	74.85	--
MW-1	6/29/2004	99.89	24.22	NP	--	75.67	NS
MW-1	11/15/2004	99.89	25.11	NP	--	74.78	NS
MW-1	4/14/2005	99.89	25.10	NP	--	74.79	NS
MW-1	12/18/2005	99.89	25.46	NP	--	74.43	--
MW-1	6/11/2006	99.89	24.54	NP	--	75.35	--
MW-1	11/5/2006	99.89	25.59	NP	--	74.30	--
MW-1	9/25/2007	99.89	25.08	NP	--	74.81	--
MW-1	12/31/2007	99.89	25.23	NP	--	74.66	--
MW-1	5/29/2008	99.89	25.01	NP	--	74.88	--
MW-1	10/28/2008	99.89	25.80	NP	--	74.09	--
MW-1	6/22/2009	99.89	26.11	NP	--	73.78	--
MW-1	12/15/2009	99.89	26.31	NP	--	73.58	--
MW-1	5/24/2010	267.43	25.20	NP	--	242.23	--
MW-1	10/12/2010	267.43	25.09	NP	--	242.34	--
MW-1	5/10/2011	267.43	23.60	NP	--	243.83	--
MW-1	11/29/2011	267.43	24.84	NP	--	242.59	--
MW-1	6/1/2012	267.43	23.67	NP	--	243.76	--
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

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

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-1	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	--	--	--	--	Dry
MW-1	12/7/2021	267.43	--	--	--	--	Dry
MW-2	5/11/1993	99.05	22.98	NP	--	76.07	--
MW-2	3/4/1994	99.05	24.30	NP	--	74.75	--
MW-2	7/6/1994	99.05	24.54	NP	--	74.51	--
MW-2	10/7/1994	99.05	24.94	NP	--	74.11	--
MW-2	12/28/1994	99.05	24.60	NP	--	74.45	--
MW-2	3/13/1995	99.05	23.84	NP	--	75.21	--
MW-2	6/30/1995	99.05	23.72	NP	--	75.33	--
MW-2	9/6/1995	99.05	23.97	NP	--	75.08	--
MW-2	12/8/1995	99.05	23.97	NP	--	75.08	--
MW-2	3/11/1996	99.05	22.66	NP	--	76.39	--
MW-2	6/18/1996	99.05	22.18	NP	--	76.87	--

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

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-2	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	--

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

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-2	11/5/2006	99.05	25.40	NP	--	73.65	--
MW-2	9/25/2007	99.05	24.72	NP	--	74.33	--
MW-2	12/31/2007	99.05	24.67	NP	--	74.38	--
MW-2	5/29/2008	99.05	24.73	NP	--	74.32	--
MW-2	10/28/2008	99.05	25.74	NP	--	73.31	--
MW-2	6/22/2009	99.05	25.91	NP	--	73.14	--
MW-2	12/15/2009	99.05	25.87	NP	--	73.18	--
MW-2	5/24/2010	266.69	24.64	NP	--	242.05	--
MW-2	10/12/2010	266.69	25.03	NP	--	241.66	--
MW-2	5/10/2011	266.69	23.23	NP	--	243.46	--
MW-2	11/29/2011	266.69	24.82	NP	--	241.87	--
MW-2	6/1/2012	266.69	23.60	NP	--	243.09	--
MW-2	11/29/2012	266.69	23.86	NP	--	242.83	--
MW-2	5/9/2013	266.69	23.41	NP	--	243.28	--
MW-2	11/19/2013	266.69	24.40	NP	--	242.29	--
MW-2	5/13/2014	266.69	23.74	NP	--	242.95	--
MW-2	5/7/2015	266.69	24.14	NP	--	242.55	--
MW-2	3/2/2016	266.69	23.79	NP	--	242.90	--
MW-2	6/6/2016	266.69	24.49	NP	--	242.20	--
MW-2	9/12/2016	266.69	26.69	NP	--	240.00	--
MW-2	12/12/2016	266.69	23.96	NP	--	242.73	--
MW-2	2/22/2017	266.69	23.18	NP	--	243.51	--
MW-2	8/29/2017	266.69	24.86	NP	--	241.83	--
MW-2	3/13/2018	266.69	24.45	NP	--	242.24	--
MW-2	10/25/2018	266.69	26.85	NP	--	239.84	--
MW-2	2/20/2019	266.69	25.27	NP	--	241.42	--
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	--

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

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-2	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	--	--	--	--	Dry
MW-2	12/7/2021	266.69	25.12	NP	--	241.57	--
MW-3	6/7/1993	98.53	22.28	NP	--	76.25	--
MW-3	3/4/1994	98.53	23.62	NP	--	74.91	--
MW-3	7/6/1994	98.53	23.84	NP	--	74.69	--
MW-3	10/7/1994	98.53	24.21	NP	--	74.32	--
MW-3	12/28/1994	98.53	23.91	NP	--	74.62	--
MW-3	3/13/1995	98.53	23.12	NP	--	75.41	--
MW-3	6/30/1995	98.53	23.87	NP	--	74.66	--
MW-3	9/6/1995	98.53	23.14	NP	--	75.39	--
MW-3	12/8/1995	98.53	23.20	NP	--	75.33	--
MW-3	3/11/1996	98.53	21.63	NP	--	76.90	--
MW-3	6/18/1996	98.53	21.20	NP	--	77.33	--
MW-3	9/9/1996	98.53	21.67	NP	--	76.86	--
MW-3	12/11/1996	98.53	21.87	NP	--	76.66	--
MW-3	3/13/1997	98.53	20.67	NP	--	77.86	--
MW-3	6/5/1997	98.53	19.83	NP	--	78.70	--
MW-3	9/5/1997	98.53	20.72	NP	--	77.81	--
MW-3	4/2/1998	98.53	19.63	NP	--	78.90	--
MW-3	6/8/1998	98.53	20.26	NP	--	78.27	--
MW-3	9/17/1998	98.53	21.21	NP	--	77.32	--
MW-3	12/9/1998	98.53	21.06	NP	--	77.47	--
MW-3	3/17/1999	98.53	18.72	NP	--	79.81	--
MW-3	6/26/1999	98.53	19.92	NP	--	78.61	--
MW-3	9/28/1999	98.53	20.79	NP	--	77.74	--
MW-3	1/19/2000	98.53	20.19	NP	--	78.34	--

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

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-3	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	--

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

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-3	5/9/2013	266.00	22.72	NP	--	243.28	--
MW-3	11/19/2013	266.00	24.30	NP	--	241.70	--
MW-3	5/13/2014	266.00	22.95	NP	--	243.05	--
MW-3	5/7/2015	266.00	23.52	NP	--	242.48	--
MW-3	3/2/2016	266.00	22.12	NP	--	243.88	--
MW-3	6/6/2016	266.00	23.76	NP	--	242.24	--
MW-3	9/12/2016	266.00	25.08	NP	--	240.92	--
MW-3	12/12/2016	266.00	22.42	NP	--	243.58	--
MW-3	2/22/2017	266.00	20.02	NP	--	245.98	--
MW-3	8/29/2017	266.00	24.09	NP	--	241.91	--
MW-3	3/13/2018	266.00	23.22	NP	--	242.78	--
MW-3	10/25/2018	266.00	26.11	NP	--	239.89	--
MW-3	2/20/2019	266.00	23.86	NP	--	242.14	NS
MW-3	5/14/2019	266.00	25.42	NP	--	240.58	--
MW-3	8/27/2019	266.00	26.38	NP	--	239.62	NS
MW-3	11/25/2019	266.00	24.70	NP	--	241.30	--
MW-3	3/26/2020	266.00	25.79	NP	--	240.21	--
MW-3	6/2/2020	266.00	24.64	NP	--	241.36	NS
MW-3	8/7/2020	266.00	25.53	NP	--	240.47	--
MW-3	12/10/2020	266.00	24.59	NP	--	241.41	--
MW-3	3/8/2021	266.00	23.11	NP	--	242.89	--
MW-3	6/9/2021	266.00	24.63	NP	--	241.37	--
MW-3	9/13/2021	266.00	26.07	NP	--	239.93	--
MW-3	12/7/2021	266.00	22.98	NP	--	243.02	--
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	76.43	--
MW-4	7/6/1994	100.26	25.63	24.20	1.43	75.70	--
MW-4	10/7/1994	100.26	26.07	24.44	1.63	75.41	--
MW-4	12/28/1994	100.26	25.85	24.42	1.43	75.48	--
MW-4	3/13/1995	100.26	25.59	23.71	1.88	76.08	--

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

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-4	6/30/1995	100.26	24.64	23.53	1.11	76.45	--
MW-4	9/6/1995	100.26	24.78	23.73	1.05	76.27	--
MW-4	12/8/1995	100.26	24.94	23.89	1.05	76.11	--
MW-4	3/11/1996	100.26	24.68	22.30	2.38	77.37	--
MW-4	6/18/1996	100.26	24.04	21.93	2.11	77.80	--
MW-4	9/9/1996	100.26	24.08	22.23	1.85	77.57	--
MW-4	12/11/1996	100.26	23.07	22.69	0.38	77.48	--
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	76.11	--
MW-4	12/9/2001	100.26	25.50	23.13	2.37	76.54	--
MW-4	3/20/2002	100.26	26.50	22.77	3.73	76.56	--
MW-4	6/11/2002	100.26	24.25	23.15	1.10	76.84	--
MW-4	12/21/2002	100.26	--	--	--	--	NS
MW-4	3/19/2003	100.26	--	--	--	--	NS
MW-4	6/18/2003	100.26	--	--	--	--	NS
MW-4	9/23/2003	100.26	22.31	22.24	0.07	78.00	--
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	78.28	--
MW-4	4/14/2005	100.26	23.82	21.93	1.89	77.86	--
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

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

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-4	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	76.43	--
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	244.17	--
MW-4	11/19/2013	267.78	26.61	24.80	1.81	242.53	--
MW-4	5/13/2014	267.78	25.80	23.30	2.50	243.86	--
MW-4	5/7/2015	267.78	26.50	23.55	2.95	243.49	--
MW-4	3/2/2016	267.78	24.67	23.27	1.40	244.16	--
MW-4	6/6/2016	267.78	25.86	24.33	1.53	243.07	--
MW-4	9/12/2016	267.78	26.51	25.40	1.11	242.10	--
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	245.20	--
MW-4	8/29/2017	267.78	26.50	24.82	1.68	242.54	NS
MW-4	3/13/2018	267.78	24.74	24.26	0.48	243.40	NS
MW-4	10/25/2018	267.78	26.76	26.48	0.28	241.23	NS
MW-4	2/20/2019	267.78	24.80	NP	--	242.98	NS
MW-4	5/14/2019	267.78	26.33	NP	--	241.45	NS
MW-4	8/27/2019	267.78	26.51	NP	--	241.27	NS
MW-4	11/25/2019	267.78	26.51	NP	--	241.27	NS
MW-4	3/26/2020	267.78	24.62	NP	--	243.16	--
MW-4	6/2/2020	267.78	24.65	NP	--	243.13	NS
MW-4	8/6/2020	267.78	26.29	26.15	0.14	241.60	NS
MW-4	12/10/2020	267.78	25.81	25.76	0.05	242.01	--
MW-4	3/8/2021	267.78	24.01	NP	--	243.77	--
MW-4	6/9/2021	267.78	25.28	NP	--	242.50	--
MW-4	9/13/2021	267.78	--	--	--	--	Dry

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

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-4	12/7/2021	267.78	24.36	NP	--	243.42	--
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	--

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

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-5	12/9/2001	100.88	23.90	NP	--	76.98	--
MW-5	3/20/2002	100.88	23.13	NP	--	77.75	--
MW-5	6/11/2002	100.88	23.09	NP	--	77.79	--
MW-5	12/21/2002	100.88	24.65	NP	--	76.23	--
MW-5	3/19/2003	100.88	24.68	NP	--	76.20	--
MW-5	6/18/2003	100.88	24.37	NP	--	76.51	--
MW-5	9/23/2003	100.88	24.88	NP	--	76.00	--
MW-5	10/21/2003	100.88	24.99	NP	--	75.89	--
MW-5	6/29/2004	100.88	24.22	NP	--	76.66	--
MW-5	11/15/2004	100.88	24.97	NP	--	75.91	--
MW-5	4/14/2005	100.88	25.08	NP	--	75.80	--
MW-5	12/18/2005	100.88	25.47	NP	--	75.41	--
MW-5	6/11/2006	100.88	24.43	NP	--	76.45	--
MW-5	11/5/2006	100.88	25.55	NP	--	75.33	--
MW-5	9/25/2007	100.88	24.95	NP	--	75.93	--
MW-5	12/31/2007	100.88	25.16	NP	--	75.72	--
MW-5	5/29/2008	100.88	25.01	NP	--	75.87	--
MW-5	10/28/2008	100.88	25.89	NP	--	74.99	--
MW-5	6/22/2009	100.88	26.95	NP	--	73.93	--
MW-5	12/15/2009	100.88	26.57	NP	--	74.31	--
MW-5	5/24/2010	100.88	25.55	NP	--	75.33	--
MW-5	10/12/2010	268.46	25.74	NP	--	242.72	--
MW-5	5/10/2011	268.46	24.61	NP	--	243.85	--
MW-5	11/29/2011	268.46	25.55	NP	--	242.91	--
MW-5	6/1/2012	268.46	24.60	NP	--	243.86	--
MW-5	11/29/2012	268.46	25.31	NP	--	243.15	--
MW-5	5/9/2013	268.46	24.52	NP	--	243.94	--
MW-5	11/19/2013	268.46	26.35	NP	--	242.11	--
MW-5	5/13/2014	268.46	25.18	NP	--	243.28	--
MW-5	5/7/2015	268.46	25.22	NP	--	243.24	--
MW-5	3/2/2016	268.46	25.55	NP	--	242.91	--

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

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-5	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	268.46	27.40	NP	--	241.06	NS
MW-5	11/25/2019	268.46	27.55	NP	--	240.91	NS
MW-5	3/25/2020	268.46	26.84	NP	--	241.62	--
MW-5	6/2/2020	268.46	26.80	NP	--	241.66	NS
MW-5	8/6/2020	268.46	27.03	NP	--	241.43	NS
MW-5	12/10/2020	268.46	--	--	--	--	Dry
MW-5	3/8/2021	268.46	26.06	NP	--	242.40	--
MW-5	6/9/2021	268.46	26.70	NP	--	241.76	--
MW-5	9/13/2021	268.46	--	--	--	--	Dry
MW-5	12/7/2021	268.46	--	--	--	--	Dry
MW-6	9/5/1997	98.62	21.20	NP	--	77.42	--
MW-6	4/2/1998	98.62	19.70	NP	--	78.92	--
MW-6	6/8/1998	98.62	20.58	NP	--	78.04	--
MW-6	9/17/1998	98.62	21.87	NP	--	76.75	--
MW-6	12/9/1998	98.62	21.20	NP	--	77.42	--
MW-6	3/17/1999	98.62	18.49	NP	--	80.13	--
MW-6	6/26/1999	98.62	18.49	NP	--	80.13	--
MW-6	9/28/1999	98.62	21.40	NP	--	77.22	--
MW-6	1/19/2000	98.62	20.39	NP	--	78.23	--
MW-6	3/24/2000	98.62	19.63	NP	--	78.99	--
MW-6	9/14/2000	98.62	21.92	NP	--	76.70	--

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

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-6	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	--

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

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-6	5/7/2015	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	265.97	25.51	NP	--	240.46	NS
MW-6	8/27/2019	265.97	26.73	NP	--	239.24	--
MW-6	11/26/2019	265.97	26.86	NP	--	239.11	NS
MW-6	3/26/2020	265.97	15.40	NP	--	250.57	--
MW-6	6/2/2020	265.97	15.09	NP	--	250.88	--
MW-6	8/7/2020	265.97	26.00	NP	--	239.97	NS
MW-6	12/10/2020	265.97	14.24	NP	--	251.73	--
MW-6	3/8/2021	265.97	13.52	NP	--	252.45	--
MW-6	6/9/2021	265.97	24.83	NP	--	241.14	--
MW-6	9/13/2021	265.97	26.14	NP	--	239.83	--
MW-6	12/7/2021	265.97	14.09	NP	--	251.88	--
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	--	--	--	--	--

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

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

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

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-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	263.35	24.48	NP	--	238.87	--
MW-9	12/10/2020	263.35	24.33	NP	--	239.02	--
MW-9	3/8/2021	263.35	23.00	NP	--	240.35	--
MW-9	6/9/2021	263.35	23.02	NP	--	240.33	--
MW-9	9/13/2021	263.35	24.60	NP	--	238.75	--
MW-9	12/7/2021	263.35	23.47	NP	--	239.88	--
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	266.38	27.13	NP	--	239.25	--
MW-11	3/25/2020	266.38	25.39	NP	--	240.99	--
MW-11	6/2/2020	266.38	25.34	NP	--	241.04	--
MW-11	8/6/2020	266.38	25.79	NP	--	240.59	--
MW-11	12/10/2020	266.38	26.25	NP	--	240.13	--

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

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-11	3/8/2021	266.38	24.40	NP	--	241.98	--
MW-11	6/9/2021	266.38	25.12	NP	--	241.26	--
MW-11	9/13/2021	266.38	26.32	NP	--	240.06	--
MW-11	12/7/2021	266.38	25.70	NP	--	240.68	--
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	266.51	26.78	NP	--	239.73	--
MW-12	8/27/2019	266.51	27.82	NP	--	238.69	--
MW-12	11/25/2019	266.51	28.19	NP	--	238.32	--
MW-12	3/26/2020	266.51	26.50	NP	--	240.01	--
MW-12	6/2/2020	266.51	26.53	NP	--	239.98	--
MW-12	8/6/2020	266.51	27.05	NP	--	239.46	--
MW-12	12/10/2020	266.51	27.31	NP	--	239.20	--
MW-12	3/8/2021	266.51	25.32	NP	--	241.19	--
MW-12	6/9/2021	266.51	26.11	NP	--	240.40	--
MW-12	9/13/2021	266.51	27.40	NP	--	239.11	--
MW-12	12/7/2021	266.51	26.55	NP	--	239.96	--
VE-1	4/2/1998	--	--	--	--	--	--
VE-1	9/17/1998	--	--	--	--	--	--
VE-1	12/9/1998	--	--	--	--	--	--
VE-1	3/17/1999	--	--	--	--	--	--
VE-1	6/26/1999	--	--	--	--	--	--
VE-1	9/28/1999	--	--	--	--	--	--
VE-1	3/24/2000	--	--	--	--	--	--
VE-1	7/2/2000	--	--	--	--	--	--
VE-1	9/14/2000	--	--	--	--	--	--
VE-1	12/14/2000	--	23.02	NP	--	--	--
VE-1	9/22/2001	--	24.22	NP	--	--	--
VE-1	12/9/2001	--	23.90	23.83	0.07	--	--

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

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
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	242.23	--
VE-1	5/13/2014	268.17	25.20	24.80	0.40	243.27	--
VE-1	5/7/2015	268.17	25.40	24.79	0.61	243.23	--
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

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

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

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

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

CONSTITUENT		B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Total Lead	Dissolved Lead
UNIT		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**0.01**	**5**	**800**	**500**	**500**	**15**	**15**
Well ID	Date												
GMW-1	5/10/2011	2.4	< 1.0	69.7	94.8	< 1.0	--	--	**5,930**	**1,900**	< 420	**28.4**	--
GMW-1	11/29/2011	< 1.0	< 1.0	86.9	113	--	--	--	**6,080**	**610**	< 380	< 10.0	--
GMW-1	5/9/2013	< 1.0	< 1.0	4.4	4.6	< 1.0	--	--	**1,010**	< 420	< 420	< 10.0	< 10.0
GMW-1	11/19/2013	< 0.50	< 0.70	6.6	6.8	< 0.50	--	--	**1,400**	**2,500**	< 73	**16.7**	1.2
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	**16.2**	14.5
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	3.2	<2.0
GMW-1	12/7/2021	<1.0	<1.0	<1.0	<2.0	<1.0	--	--	590	360	<360	<2.0	<2.0
MW-1	5/11/1993	**82**	11	8	14	--	--	--	**3,300**	--	--	--	--
MW-1	3/4/1994	**6**	3	3	11	--	--	--	**830**	**580**	--	**38**	< 3
MW-1	7/6/1994	**5**	< 0.5	2	10	--	--	--	**900**	< 250	--	--	--
MW-1	10/7/1994	**6**	< 0.5	3	11	--	--	--	**1,500**	--	--	--	--
MW-1	12/28/1994	**5**	< 0.5	2	7	--	--	--	**1,400**	--	--	--	--
MW-1	3/13/1995	**16**	< 0.5	3	9	--	--	--	**1,400**	--	--	--	--
MW-1	6/30/1995	4	< 0.5	3	7	--	--	--	**1,400**	--	--	--	--
MW-1	9/6/1995	**5**	< 0.5	3	6	--	--	--	**1,300**	--	--	--	--
MW-1	12/8/1995	**7**	2	2	7	--	--	--	**1,300**	--	--	--	--
MW-1	3/11/1996	3	< 0.5	< 0.5	1	--	--	--	**900**	--	--	--	--
MW-1	6/18/1996	1	1	< 0.5	2	--	--	--	400	--	--	--	--
MW-1	9/9/1996	2	< 0.5	1	1	13	--	--	600	--	--	--	--
MW-1	12/11/1996	4	2	2	4	< 10	--	--	710	--	--	--	--

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

	CONSTITUENT	B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Total Lead	Dissolved Lead
	UNIT	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**0.01**	**5**	**800**	**500**	**500**	**15**	**15**
MW-1	3/13/1997	< 0.5	< 0.5	< 0.5	< 1.0	< 5	--	--	100	--	--	--	--
MW-1	6/5/1997	2	2	< 0.5	< 1.5	5	--	--	250	--	--	--	--
MW-1	9/5/1997	**8**	4	2	6	8	--	--	300	--	--	--	--
MW-1	4/2/1998	1	3	< 0.5	< 1.5	< 5	--	--	210	--	--	--	--
MW-1	6/8/1998	< 0.5	3	1	4	6	--	--	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	1	3	< 0.5	--	--	< 50	--	--	--	--
MW-1	7/2/2000	1	< 0.5	1	2	2	--	--	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**	--	--	4.9	< 2.00
MW-1	12/15/2009	**11**	2	4.8	3.6	--	--	--	**1,500**	--	--	3.8	< 2.00
MW-1	5/24/2010	**18**	< 2.5	< 2.5	6.4	--	--	--	**940**	--	--	--	--
MW-1	10/12/2010	2.8	< 1.0	1.2	< 3.0	5.2	--	--	**849**	--	--	< 10.0	--
MW-1	5/10/2011	**17.8**	6.6	1.8	10.9	2.5	--	--	642	**840**	< 420	< 10.0	--
MW-1	11/29/2011	**5.5**	< 1.0	< 1.0	< 3.0	--	--	--	**815**	< 75	< 380	10.3	--
MW-1	6/1/2012	3.6	< 1.0	< 1.0	3.0	7.4	--	--	544	362	< 396	< 10.0	< 10.0
MW-1	11/29/2012	1.2	< 1.0	< 1.0	< 3.0	< 1.0	--	--	**1,320**	< 430	< 430	11.3	< 3.0
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	4.8	0.15 J
MW-1	5/13/2014	1.4	< 0.50	< 0.50	0.57 J	0.67 J	--	--	490	250	110 J	6.9 J	< 4.7
MW-1	5/7/2015	1.2	< 0.50	< 0.50	< 0.50	< 0.50	--	--	610	270	190 J	**18.7**	7.1 J
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	--

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

	CONSTITUENT	B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Total Lead	Dissolved Lead
	UNIT	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**0.01**	**5**	**800**	**500**	**500**	**15**	**15**
MW-1	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-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**	--	5	< 3
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	13	14	--	--	--	**2,100**	--	--	--	--
MW-2	3/13/1995	**200**	12	29	50	--	--	--	**2,700**	--	--	--	--
MW-2	6/30/1995	**400**	8	50	39	--	--	--	**3,400**	--	--	--	--
MW-2	9/6/1995	**350**	8	50	35	--	--	--	**3,400**	--	--	--	--
MW-2	12/8/1995	**610**	5	29	36	--	--	--	**3,100**	--	--	--	--
MW-2	3/11/1996	**280**	12	100	120	--	--	--	**5,400**	--	--	--	--
MW-2	6/18/1996	**280**	12	130	56	--	--	--	**4,500**	--	--	--	--
MW-2	9/9/1996	**790**	5	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	100	62	< 5.0	--	--	**4,500**	--	--	--	--
MW-2	3/17/1999	**19**	27	300	230	< 5.0	--	--	**5,000**	--	--	--	--
MW-2	6/26/1999	**400**	29	160	130	13	--	--	**3,400**	--	--	--	--
MW-2	9/28/1999	**690**	20	23	110	**87**	--	--	**7,300**	--	--	--	--
MW-2	1/19/2000	**920**	20	260	74	< 0.5	--	--	**8,700**	--	--	--	--
MW-2	3/24/2000	**310**	79	240	97	< 5	--	--	**10,000**	--	--	--	--
MW-2	7/2/2000	**520**	35	190	85	**49**	--	--	**8,200**	--	--	--	--
MW-2	9/14/2000	**1,100**	100	110	100	< 5	--	--	**14,000**	--	--	--	--
MW-2	12/14/2000	**740**	< 10	68	< 30	< 40	--	--	**15,000**	--	--	--	--
MW-2	9/22/2001	**180**	9	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**	--	--	--	--

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

CONSTITUENT		B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Total Lead	Dissolved Lead
UNIT		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**0.01**	**5**	**800**	**500**	**500**	**15**	**15**
MW-2	6/29/2004	**17.8**	11.2	228	76.5	**95.2**	--	--	**5,550**	--	--	--	--
MW-2	11/15/2004	**12.3**	6.11	135	63.3	< 2.00	--	--	**5,670**	--	--	--	--
MW-2	4/14/2005	**130**	2.8	41.8	26.6	< 2.00	--	--	**4,680**	--	--	--	--
MW-2	12/18/2005	**122**	3.5	43.9	27.8	< 5.00	--	--	**5,700**	--	--	--	--
MW-2	6/11/2006	4.48	5.8	118	56.7	< 2.00	--	--	**5,450**	--	--	--	--
MW-2	11/5/2006	**263**	< 5.00	46.2	< 30.0	--	--	--	**7,490**	--	--	--	--
MW-2	9/25/2007	**715**	9.74	50.8	64	--	--	--	**7,530**	--	--	--	--
MW-2	12/31/2007	**477**	10.6	69.3	76.3	--	--	--	**6,000**	--	--	--	--
MW-2	5/29/2008	**648**	11.1	55.9	48.4	--	--	--	**9,600**	--	--	--	--
MW-2	10/28/2008	**1,430**	16	194	145	--	--	--	**10,300**	--	--	--	--
MW-2	6/22/2009	**1,200**	40	100	130	--	--	--	**4,800**	--	--	< 2.00	< 2.00
MW-2	12/15/2009	**1,600**	8.2	66	82	--	--	--	**4,300**	--	--	< 2.00	< 2.00
MW-2	5/24/2010	**320**	7.7	69	84	--	--	--	**4,200**	--	--	--	--
MW-2	10/12/2010	**1,890**	14.8	54.8	39.7	15.5	--	--	**3,590**	--	--	< 10.0	--
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**	7.7	3.2
MW-2	5/9/2013	**42.9**	6.2	115	35.4	< 5.0	--	--	**3,660**	**1,700**	< 400	12.3	< 10.0
MW-2	11/19/2013	**7.3**	4.4 J	17	40	6.3	--	--	**1,400**	280	100 J	9.8	3.2
MW-2	5/13/2014	**79**	3.3 J	58	20	6.0	--	--	**3,100**	**1,800**	**880**	6.6 J	< 4.7
MW-2	5/7/2015	**33**	6.1	91	32	2.4	--	--	**2,700**	**1,900**	**690**	**34.1**	< 4.7
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	**25.5**	0.623 J
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**	**79.2**	< 1.90
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	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 BP Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

CONSTITUENT		B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Total Lead	Dissolved Lead
UNIT		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**0.01**	**5**	**800**	**500**	**500**	**15**	**15**
MW-2	12/7/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 250	220	420	< 2.0	< 2.0
MW-3	6/7/1993	**140**	7	13	14	--	--	--	**2,200**	--	--	--	--
MW-3	3/4/1994	**99**	2	11	10	--	--	--	**1,200**	**590**	--	4	< 3
MW-3	7/6/1994	**44**	6	26	27	--	--	--	**1,500**	270	--	--	--
MW-3	10/7/1994	**63**	4	16	13	--	--	--	**1,500**	--	--	--	--
MW-3	12/28/1994	**77**	3	13	9	--	--	--	**1,800**	--	--	--	--
MW-3	3/13/1995	**87**	4	18	10	--	--	--	**1,700**	--	--	--	--
MW-3	6/30/1995	**90**	3	52	13	--	--	--	**1,800**	--	--	--	--
MW-3	9/6/1995	**96**	3	41	14	--	--	--	**1,700**	--	--	--	--
MW-3	12/8/1995	**73**	4	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	< 0.5	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	--	--	**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	170	59	< 5.0	--	--	**3,200**	--	--	--	--
MW-3	6/26/1999	**72**	16	270	52	**56**	--	--	**3,100**	--	--	--	--
MW-3	1/19/2000	**72**	29	430	110	< 0.5	--	--	**5,700**	--	--	--	--
MW-3	7/2/2000	**35**	18	230	64	7	--	--	**3,300**	--	--	--	--
MW-3	12/14/2000	**40**	< 10	210	< 30	< 40	--	--	**5,500**	--	--	--	--
MW-3	12/9/2001	**42**	4.1	77	22	< 4.0	--	--	**4,200**	--	--	--	--
MW-3	6/11/2002	**77**	< 5.0	320	54	< 20	--	--	**8,400**	--	--	--	--
MW-3	12/21/2002	**37.7**	3.31	68.6	18.3	**39.3**	--	--	**3,440**	--	--	--	--
MW-3	6/18/2003	**39.1**	4.22	113	30.3	**62.6**	--	--	**4,020**	--	--	--	--
MW-3	10/21/2003	**19.8**	2.92	31.2	16.3	< 1.00	--	--	**3,190**	--	--	--	--
MW-3	11/15/2004	**15.8**	2.36	20.9	11.1	2.36	--	--	**3,170**	--	--	--	--
MW-3	4/14/2005	**17.1**	5.21	14.3	11.2	< 2.00	--	--	**3,340**	--	--	--	--
MW-3	12/18/2005	**15.1**	2.92	20.7	15.1	< 1.00	--	--	**4,150**	--	--	--	--
MW-3	6/11/2006	**20.9**	3.6	30	21.3	1.11	--	--	**4,000**	--	--	--	--
MW-3	11/5/2006	**16.8**	2.85	19	16.6	--	--	--	**4,970**	--	--	--	--
MW-3	9/25/2007	**18.2**	2.34	17.1	13.8	--	--	--	**4,530**	--	--	--	--
MW-3	12/31/2007	**16.5**	2.38	32.7	16.1	--	--	--	**4,490**	--	--	--	--
MW-3	5/29/2008	**16.5**	1.83	14.4	15	--	--	--	**5,350**	--	--	--	--
MW-3	10/28/2008	**14.4**	1.86	13.8	10.3	--	--	--	**3,250**	--	--	--	--

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

CONSTITUENT		B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Total Lead	Dissolved Lead
UNIT		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**0.01**	**5**	**800**	**500**	**500**	**15**	**15**
MW-3	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**	--	--	7.7	< 2.00
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**	4.1	< 3.0
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	3.2	0.47 J
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	0.868 B J	0.602 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	--
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	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-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	--	--	**100,000**	--	--	--	--
MW-4	3/24/2000	**13,000**	**18,000**	**2,200**	**13,000**	< 5	--	--	**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	--	--	**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**	--	--	--	--

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

CONSTITUENT		B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Total Lead	Dissolved Lead
UNIT		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**0.01**	**5**	**800**	**500**	**500**	**15**	**15**
MW-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	**204**	**53.5**
MW-4	3/8/2021	**80**	530	330	**3,300**	< 1.0	--	< 1.0	**23,000**	**7,700**	**1,600**	**74**	**24**
MW-4	6/9/2021	**85**	120	130	**1,800**	< 1.0	--	--	**15,000**	**13,000**	**2,000**	**82**	**29**
MW-4	12/7/2021	**61**	73	130	**2,300 H**	< 1.0	--	--	**19,000**	**11,000**	**1,900**	**220**	**110**
MW-5	5/11/1993	**130**	25	23	22	--	--	--	**1,800**	--	--	--	--
MW-5	3/4/1994	**26**	6	11	8	--	--	--	710	420	--	**27**	< 3
MW-5	7/6/1994	**11**	3	1	4	--	--	--	400	< 250	--	--	--
MW-5	10/7/1994	**13**	4	2	4	--	--	--	510	--	--	--	--
MW-5	12/28/1994	**46**	13	20	22	--	--	--	**1,300**	--	--	--	--
MW-5	3/13/1995	**34**	8	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	42	62	--	--	--	**1,700**	--	--	--	--
MW-5	3/11/1996	**85**	9	210	140	--	--	--	**8,100**	--	--	--	--
MW-5	6/18/1996	**100**	17	88	25	--	--	--	**2,700**	--	--	--	--
MW-5	9/9/1996	**180**	29	100	27	< 1.0	--	--	**2,200**	--	--	--	--
MW-5	12/11/1996	**110**	18	96	250	12	--	--	**4,900**	--	--	--	--
MW-5	3/13/1997	**190**	35	190	73	< 50	--	--	**5,500**	--	--	--	--
MW-5	6/5/1997	**290**	42	200	37	< 100	--	--	**4,100**	--	--	--	--
MW-5	9/5/1997	**420**	83	190	730	< 50	--	--	**3,100**	--	--	--	--
MW-5	4/2/1998	**470**	89	340	83	< 50	--	--	**5,400**	--	--	--	--
MW-5	6/8/1998	**360**	110	220	66	**71**	--	--	**4,200**	--	--	--	--
MW-5	12/9/1998	**170**	41	120	120	< 1.0	--	--	**4,900**	--	--	--	--
MW-5	6/26/1999	**180**	82	210	24	8	--	--	**3,300**	--	--	--	--
MW-5	1/19/2000	**480**	350	370	87	< 0.5	--	--	**6,500**	--	--	--	--
MW-5	7/2/2000	**390**	110	290	54	**20**	--	--	**6,100**	--	--	--	--
MW-5	12/14/2000	**26**	< 10	< 10	< 30	< 40	--	--	**4,000**	--	--	--	--
MW-5	12/9/2001	**51**	< 10	120	140	< 10	--	--	**12,000**	--	--	--	--
MW-5	6/11/2002	**94**	21	110	24	< 20	--	--	**5,700**	--	--	--	--
MW-5	12/21/2002	**6.32**	2.95	6.59	11.1	5.88	--	--	**1,300**	--	--	--	--

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

CONSTITUENT		B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Total Lead	Dissolved Lead
UNIT		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**0.01**	**5**	**800**	**500**	**500**	**15**	**15**
MW-5	6/18/2003	**7.18**	1.95	12	24.7	6	--	--	**1,950**	--	--	--	--
MW-5	10/21/2003	1.18	2.19	0.732	3.38	< 1.00	--	--	322	--	--	--	--
MW-5	6/29/2004	**5.4**	3.24	4.79	14.1	6.95	--	--	**1,180**	--	--	--	--
MW-5	11/15/2004	0.74	< 0.500	< 0.500	< 1.00	< 2.00	--	--	399	--	--	--	--
MW-5	4/14/2005	**14.3**	13.4	33.9	40	< 2.00	--	--	**2,900**	--	--	--	--
MW-5	12/18/2005	2.49	2.43	3.58	5.11	< 1.00	--	--	661	--	--	--	--
MW-5	6/11/2006	**6.08**	1.05	2.78	3.1	< 1.00	--	--	**2,830**	--	--	--	--
MW-5	11/5/2006	1.41	0.78	1.29	< 3.00	--	--	--	723	--	--	--	--
MW-5	9/25/2007	1.86	0.53	0.77	< 3.00	--	--	--	712	--	--	--	--
MW-5	12/31/2007	**9.4**	11.3	38.1	75.7	--	--	--	**7,190**	--	--	--	--
MW-5	5/29/2008	**7.47**	9.12	15.7	23.7	--	--	--	**2,740**	--	--	--	--
MW-5	10/28/2008	2.01	1.46	< 0.500	3.48	--	--	--	516	--	--	--	--
MW-5	6/22/2009	**36**	24	87	49.9	--	--	--	**4,800**	--	--	**23**	--
MW-5	12/15/2009	**24**	19	29	23	--	--	--	**2,300**	--	--	12	11
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	**42.5**	< 3.0
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**	6.7	1.3
MW-5	5/13/2014	**17**	7.5	69	23	< 0.50	--	--	**4,400**	440	370	**16.2**	9.2 J
MW-5	5/7/2015	**11**	4.8	32	12	< 0.50	--	--	**2,800**	240	260	**18.4**	5.2 J
MW-5	3/2/2016	4.5	2.8	24	13	< 0.50	--	--	**4,100**	320	**530**	--	--
MW-5	6/6/2016	**6.9**	4.4	23	15	< 0.50	--	--	**5,300**	310	**620**	--	--
MW-5	12/12/2016	1.7	1.8	9.0	4.5	< 0.50	--	--	**4,300**	**17,000**	< 540	--	--
MW-5	2/22/2017	0.572 J	< 0.412	1.39	1.10 J	< 0.367	--	--	**3,440**	**9,890**	204 J	--	--
MW-5	8/29/2017	**7.48**	1.60	6.01	11.1	< 0.367	--	--	**1,810**	**7,040**	432	--	--
MW-5	3/13/2018	< 1.00	< 1.00	0.544 J	< 3.00	< 1.00	--	--	356 B	**1,440**	216 J	--	--
MW-5	5/14/2019	0.403 J	< 0.412	< 0.384	5.45	< 0.367	< 0.00240	< 0.361	54.5 J	**1,120**	122 J	--	--
MW-5	3/25/2020	< 0.0896	< 0.412	< 0.158	< 0.316	< 0.102	< 0.00240	< 0.108	< 31.6	300	108 J	**21.2**	3.84 J
MW-5	3/8/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	< 1.0	< 250	170	< 360	< 10	< 10
MW-6	9/5/1997	< 0.5	19	6	15	**32**	--	--	**930**	--	--	--	--
MW-6	4/2/1998	< 0.5	10	3	11	6	--	--	600	--	--	--	--
MW-6	6/8/1998	< 0.5	6	2	5	10	--	--	430	--	--	--	--
MW-6	12/9/1998	< 1.0	< 1.0	1	3	2	--	--	260	--	--	--	--
MW-6	1/19/2000	< 0.5	< 0.5	6	10	7	--	--	330	--	--	--	--

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Former BP Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

CONSTITUENT		B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Total Lead	Dissolved Lead
UNIT		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**0.01**	**5**	**800**	**500**	**500**	**15**	**15**
MW-6	12/14/2000	< 10	< 10	< 10	< 30	< 40	--	--	**1,000**	--	--	--	--
MW-6	10/21/2003	**10**	3.66	0.898	5.03	< 1.00	--	--	254	--	--	--	--
MW-6	6/29/2004	**6.8**	1.73	< 0.500	5.65	6.35	--	--	540	--	--	--	--
MW-6	11/15/2004	**43.5**	14.5	0.58	10.4	< 2.00	--	--	370	--	--	--	--
MW-6	4/14/2005	**6.39**	0.95	< 0.500	3.75	< 2.00	--	--	443	--	--	--	--
MW-6	12/18/2005	< 0.500	< 0.500	< 0.500	3.01	< 1.00	--	--	694	--	--	--	--
MW-6	6/11/2006	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	--	--	601	--	--	--	--
MW-6	11/5/2006	< 0.500	< 0.500	< 0.500	< 3.00	--	--	--	444	--	--	--	--
MW-6	9/25/2007	< 0.500	< 0.500	< 0.500	< 3.00	--	--	--	321	--	--	--	--
MW-6	12/31/2007	< 0.500	< 0.500	< 0.500	< 3.00	--	--	--	168	--	--	--	--
MW-6	5/29/2008	< 0.500	< 0.500	< 0.500	< 3.00	--	--	--	**1,620**	--	--	--	--
MW-6	10/28/2008	< 0.500	< 0.500	< 0.500	< 3.00	--	--	--	481	--	--	--	--
MW-6	6/22/2009	< 1.00	< 1.00	< 1.00	< 3.00	--	--	--	< 50.0	--	--	< 2.00	< 2.00
MW-6	12/15/2009	< 1.00	< 1.00	< 1.00	< 2.00	--	--	--	190	--	--	< 2.00	< 2.00
MW-6	5/24/2010	**8.1**	< 2.5	< 2.5	< 5.0	--	--	--	280	--	--	--	--
MW-6	10/12/2010	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	--	--	< 50.0	--	--	< 10.0	--
MW-6	5/10/2011	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	--	--	96.0	180	< 390	< 10.0	--
MW-6	11/29/2011	< 1.0	< 1.0	< 1.0	< 3.0	--	--	--	< 50.0	< 78	< 390	< 10.0	--
MW-6	6/1/2012	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	--	--	124	< 76.9	< 385	< 10.0	< 10.0
MW-6	5/9/2013	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	--	--	216	< 400	< 400	< 10.0	< 10.0
MW-6	11/19/2013	< 0.50	< 0.70	< 0.80	< 0.80	< 0.50	--	--	130 J	31 J	< 71	0.97 J	0.12 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	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

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

CONSTITUENT		B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Total Lead	Dissolved Lead
UNIT		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**0.01**	**5**	**800**	**500**	**500**	**15**	**15**
MW-7	4/2/1998	< 5	35	480	**1,100**	< 50	--	--	**13,100**	--	--	--	--
MW-7	6/8/1998	< 5.0	40	420	810	**63**	--	--	**12,000**	--	--	--	--
MW-7	12/9/1998	< 5.0	26	360	610	11	--	--	**9,600**	--	--	--	--
MW-7	6/26/1999	**11**	24	410	600	< 5.0	--	--	**8,300**	--	--	--	--
MW-8	4/2/1998	< 0.5	1	< 0.5	< 1.5	< 5	--	--	< 100	--	--	--	--
MW-8	6/8/1998	< 0.5	1	2	< 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	1.0	0.090 J
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	0.299 B J	< 2.00
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	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-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	**20.4**	< 3.0
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	12.8	< 0.085
MW-10	5/13/2014	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	--	--	< 50	< 28	< 66	< 4.7	< 4.7

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

	CONSTITUENT	B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Total Lead	Dissolved Lead
	UNIT	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**0.01**	**5**	**800**	**500**	**500**	**15**	**15**
MW-10	5/7/2015	< 0.50	< 0.50	0.81 J	7.1	< 0.50	--	--	150 J	75 J	150 J	6.3 J	< 4.7
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	1.09 B J	0.582 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	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-12	10/25/2018	1.17	< 1.00	< 1.00	< 3.00	< 1.00	< 0.0100	< 1.00	**867**	**705**	189 J	1.00 B J	< 2.00
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	**25.8**	< 1.90
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	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 F1	< 10
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
VE-1	4/2/1998	**3,900**	**2,300**	**820**	**4,500**	< 2500	--	--	**60,500**	--	--	--	--
VE-1	9/17/1998	**2,700**	**2,000**	**1,400**	**7,700**	< 100	--	--	**240,000**	--	--	--	--
VE-1	12/9/1998	**2,200**	**1,400**	**770**	**3,700**	< 25	--	--	**73,000**	--	--	--	--
VE-1	3/17/1999	**4,000**	**2,400**	**790**	**4,100**	< 25	--	--	**42,000**	--	--	--	--
VE-1	6/26/1999	**3,800**	**2,600**	670	**3,500**	< 100	--	--	**42,000**	--	--	--	--
VE-1	9/28/1999	**3,400**	**2,000**	630	**3,000**	< 25	--	--	**25,000**	--	--	--	--
VE-1	3/24/2000	**3,200**	610	27	**3,600**	< 5	--	--	**31,000**	--	--	--	--

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

CONSTITUENT		B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Total Lead	Dissolved Lead
UNIT		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS		**5**	**1000**	**700**	**1000**	**20**	**0.01**	**5**	**800**	**500**	**500**	**15**	**15**
VE-1	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	--	--	**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**	--	--	--	--

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
1,000/800[1] ug/L if no detectable levels of Benzene in the sample - otherwise 800 ug/L
<1.0 = Concentrations were not detected above the laboratory method reporting limit.
ug/L = Micrograms per liter (ppb)
-- = No value given/Not analyzed/Not applicable
MTCA = Model Toxics Control Act
Results in **bold** indicate concentrations in excess of MTCA Method A Cleanup Levels
J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
B = The same analyte is found in the associated blank.
F1 = MS and/or MSD recovery exceeds control limits
F2 = MS/MSD RPD exceeds control limits
H - Sample was prepped or analyzed beyond the specified holding time

Table 3
PAH Groundwater Analytical Data
Former BP Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

CONSTITUENT		Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)-anthracene	Benzo(a)pyrene	Benzo(b)-fluoranthene	Benzo(g,h,i)-perylene	Benzo(k)-fluoranthene	Chrysene	Dibenzo(a,h)-anthracene	Fluoranthene	Fluorene	Indeno-(1,2,3-cd)pyrene	Naphthalene	1-Methyl-naphthalene	2-Methyl-naphthalene	Total Naphthalenes	Phenanthrene	Pyrene	Total Polynuclear Aromatic Hydrocarbons
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	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS						**0.1**									**160**			**160**			**0.1**
Well ID	Date																				
GMW-1	5/7/2015	--	--	--	< 0.010	< 0.010	< 0.010	--	< 0.010	< 0.010	< 0.010	--	--	< 0.010	7.4	1.8	4	13.2	--	--	< 0.00755
GMW-1	3/2/2016	--	--	--	0.043 J	0.029 J	0.022 J	--	0.031 J	0.071	0.061	--	--	0.032 J	< 0.030	0.079	0.17	0.264	--	--	0.04861
GMW-1	6/6/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	2.2	0.53	1.1	3.83	--	--	--
GMW-1	9/12/2016	--	--	--	< 0.0095	< 0.0095	< 0.0095	--	< 0.0095	< 0.0095	< 0.0095	--	--	< 0.0095	7.1	1.4	2.8	11.3	--	--	< 0.00717
GMW-1	9/12/2016	--	--	--	< 0.0095	< 0.0095	< 0.0095	--	< 0.0095	< 0.0095	< 0.0095	--	--	< 0.0095	6.8	1.4	2.8	11	--	--	< 0.00717
GMW-1	2/20/2019	--	--	--	< 0.00410	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	< 0.0198	0.0121 J	0.024 J	< 0.046	--	--	< 0.007783
GMW-1	5/13/2019	--	--	--	< 0.00410	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	0.377	0.0625 J	0.0189 J	0.4584	--	--	< 0.007783
GMW-1	8/27/2019	--	--	--	< 0.00410	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	0.642	0.0389 J	0.140 J	0.8209	--	--	< 0.007783
GMW-1	3/25/2020	--	--	--	< 0.00410	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	0.200 BJ	0.0274 J	0.0130 J	0.24	--	--	< 0.007783
GMW-1	6/2/2020	--	--	--	< 0.0203	< 0.0184	< 0.0168	--	< 0.0202	< 0.0179	< 0.0160	--	--	< 0.0158	0.108 J	< 0.0687	< 0.0674	< 0.176	--	--	< 0.0137
GMW-1	8/6/2020	--	--	--	< 0.0203	< 0.0184	< 0.0168	--	< 0.0202	< 0.0179	< 0.0160	--	--	< 0.0158	< 0.917	< 0.687	< 0.674	< 1.14	--	--	< 0.0137
GMW-1	6/9/2021	< 0.10	< 0.051	< 0.10	< 0.051	< 0.10	< 0.051	< 0.051	< 0.051	< 0.10	< 0.10	< 0.20	< 0.10	< 0.051	< 0.10	< 0.10	< 0.20	--	< 0.10	< 0.10	--
GMW-1	9/13/2020	< 0.10	< 0.051	< 0.10	< 0.051	< 0.10	< 0.051	< 0.051	< 0.051	< 0.10	< 0.10	<0.21	< 0.10	< 0.051	< 0.10	< 0.10	< 0.21	--	< 0.10	< 0.10	--
GMW-1	12/7/2021	<0.11	<0.053	<0.11	<0.053	<0.11	<0.053	<0.053	<0.053	<0.11	<0.11	<0.21	<0.11	<0.053	<0.11	<0.11	<0.21	--	<0.11	<0.11	--
MW-1	5/7/2015	--	--	--	0.025 J	0.026 J	0.044 J	--	0.020 J	0.032 J	0.018 J	--	--	0.033 J	< 0.031	0.023 J	0.026 J	0.0645	--	--	0.04032
MW-1	3/2/2016	--	--	--	< 0.011	< 0.011	< 0.011	--	< 0.011	< 0.011	< 0.011	--	--	< 0.011	0.4	0.12	0.2	0.72	--	--	< 0.008305
MW-1	2/22/2019	--	--	--	< 0.00410	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	< 0.0198	0.0129 J	0.0207 J	< 0.0435	--	--	< 0.007783
MW-1	5/14/2019	--	--	--	< 0.00820	< 0.0232	< 0.00424	--	< 0.0272	< 0.0216	< 0.00792	--	--	< 0.0296	0.110 J	0.0309 J	0.0414 J	0.1823	--	--	< 0.015566
MW-1	3/26/2020	--	--	--	< 0.00410	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	0.0777 BJ	< 0.00821	< 0.00902	< 0.0863	--	--	< 0.007783
MW-1	6/3/2020	--	--	--	< 0.0203	< 0.0184	< 0.0168	--	< 0.0202	< 0.0179	< 0.0160	--	--	< 0.0158	< 0.0917	< 0.0687	< 0.0674	< 0.114	--	--	< 0.0137
MW-1	8/6/2020	--	--	--	< 0.0203	< 0.0184	< 0.0168	--	< 0.0202	< 0.0179	< 0.0160	--	--	< 0.0158	0.0925 J	< 0.687	< 0.674	< 0.773	--	--	< 0.0137
MW-1	6/9/2021	< 0.10	< 0.051	< 0.10	< 0.051	< 0.10	< 0.051	< 0.051	< 0.051	< 0.10	< 0.10	< 0.20	< 0.10	< 0.051	< 0.10	< 0.10	< 0.20	--	< 0.10	< 0.10	--
MW-2	5/7/2015	--	--	--	< 0.010	< 0.010	< 0.010	--	< 0.010	< 0.010	< 0.010	--	--	< 0.010	4.3	1.1	0.35	5.75	--	--	< 0.0137
MW-2	3/2/2016	--	--	--	< 0.010	< 0.010	< 0.010	--	< 0.010	< 0.010	< 0.010	--	--	< 0.010	4.3	1.7	0.34	6.34	--	--	< 0.0137
MW-2	6/6/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	4.6	2.5	0.29	7.39	--	--	< 0.0137
MW-2	9/12/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0137
MW-2	2/20/2019	--	--	--	< 0.00410	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	< 0.0198	0.00849 J	0.0174 J	< 0.03579	--	--	< 0.0137
MW-2	5/14/2019	--	--	--	< 0.00410	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	0.0593 J	0.0214 J	0.0228 J	0.1035	--	--	< 0.0137
MW-2	8/27/2019	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0137
MW-2	11/26/2019	--	--	--	0.00684 BJ	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	0.0680 BJ	0.0255 BJ	0.0174 BJ	0.1109	--	--	< 0.0137
MW-2	3/26/2020	--	--	--	< 0.00410	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	0.0939 BJ	< 0.00821	< 0.00902	< 0.103	--	--	< 0.0137
MW-2	6/3/2020	--	--	--	< 0.0203	< 0.0184	< 0.0168	--	< 0.0202	< 0.0179	< 0.0160	--	--	< 0.0158	0.188 J	< 0.0687	0.150 J	< 0.372	--	--	< 0.0137
MW-2	8/7/2020	--	--	--	< 0.0203	< 0.0184	< 0.0168	--	< 0.0202	< 0.0179	< 0.0160	--	--	< 0.0158	0.171 J	< 0.687	< 0.674	< 0.852	--	--	< 0.0137
MW-2	6/9/2021	< 0.10	< 0.051	< 0.10	< 0.051	< 0.10	< 0.051	< 0.051	< 0.051	< 0.10	< 0.10	< 0.20	< 0.10	< 0.051	< 0.10	< 0.10	< 0.20	--	< 0.10	< 0.10	--
MW-2	12/7/2021	< 0.10	< 0.052	< 0.10	< 0.052	< 0.10	< 0.052	< 0.052	< 0.052	< 0.10	< 0.10	< 0.21	< 0.10	< 0.052	< 0.10	< 0.10	< 0.21	--	< 0.10	< 0.10	--
MW-3	5/7/2015	--	--	--	0.016 J	0.015 J	0.025 J	--	< 0.010	0.018 J	< 0.010	--	--	0.016 J	< 0.030	0.76	0.041	0.816	--	--	0.02188
MW-3	3/2/2016	--	--	--	< 0.010	< 0.010	< 0.010	--	< 0.010	< 0.010	< 0.010	--	--	< 0.010	< 0.030	< 0.010	< 0.010	< 0.025	--	--	< 0.00755
MW-3	6/6/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.031	0.032 J	< 0.010	0.053	--	--	--
MW-3	9/12/2016	--	--	--	< 0.0095	< 0.0095	< 0.0095	--	< 0.0095	< 0.0095	< 0.0095	--	--	< 0.0095	< 0.029	0.19	< 0.0095	0.20925	--	--	< 0.00717
MW-3	5/14/2019	--	--	--	< 0.00410	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	0.0335 J	< 0.00821	< 0.00902	< 0.0421	--	--	< 0.007783
MW-3	11/25/2019	--	--	--	< 0.00410	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	< 0.0198	< 0.00821	< 0.00902	< 0.0185	--	--	< 0.007783
MW-3	3/26/2020	--	--	--	< 0.00410	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	0.0293 BJ	< 0.00821	< 0.00902	< 0.0379	--	--	< 0.007783
MW-3	8/7/2020	--	--	--	< 0.0203	< 0.0184	< 0.0168	--	< 0.0202	< 0.0179	< 0.0160	--	--	< 0.0158	< 0.917	< 0.687	< 0.674	< 1.14	--	--	< 0.0137
MW-3	6/9/2021	< 0.10	< 0.051	< 0.10	< 0.051	< 0.10	< 0.051	< 0.051	< 0.051	< 0.10	< 0.10	< 0.20	< 0.10	< 0.051	< 0.10	< 0.10	< 0.20	--	< 0.10	< 0.10	--
MW-3	9/13/2021	< 0.10	< 0.051	< 0.10	< 0.051	< 0.10	< 0.051	< 0.051	< 0.051	< 0.10	< 0.10	< 0.20	< 0.10	< 0.051	< 0.10	< 0.10	< 0.20	--	< 0.10	< 0.10	--
MW-3	12/7/2021	< 0.10	< 0.051	< 0.10	< 0.051	< 0.10	< 0.051	< 0.051	< 0.051	< 0.10	< 0.10	< 0.21	< 0.10	< 0.051	0.59	< 0.10	< 0.21	--	< 0.10	< 0.10	--
MW-4	3/26/2020	--	--	--	0.0381 J	0.0250 J	0.0344 J	--	< 0.0272	< 0.0216	< 0.00792	--	--	< 0.0296	113	21.7	35.5	**170.2**	--	--	< 0.03559
MW-4	6/9/2021	< 5.1	< 2.5	< 0.10	< 0.051	< 0.10	0.061	0.076	< 0.051	< 0.10	< 0.10	< 0.20	< 5.1	< 0.051	76	16	28	--	0.34	0.23	--
MW-4	12/7/2021	< 0.11	< 0.053	< 0.11	< 0.053	< 0.11	0.063	< 0.053	< 0.053	< 0.11	< 0.11	< 0.21	< 0.11	< 0.053	28	4.4	8.7	--	0.16	0.17	--
MW-5	5/7/2015	--	--	--	< 0.010	< 0.010	0.014 J	--	< 0.010	< 0.010	< 0.010	--	--	< 0.010	11	3	2.5	16.5	--	--	0.00845
MW-5	3/2/2016	--	--	--	< 0.010	< 0.010	< 0.010	--	< 0.010	< 0.010	< 0.010	--	--	< 0.010	9.9	2.7	2.8	15.4	--	--	< 0.00755
MW-5	6/6/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	7.3	2.3	2.3	11.9	--	--	--
MW-5	3/25/2020	--	--	--	< 0.00410	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	0.0349 BJ	< 0.00821	< 0.00902	< 0.0435	--	--	< 0.007783
MW-6	5/7/2015	--	--	--	< 0.010	< 0.010	< 0.010	--	< 0.010	< 0.010	< 0.010	--	--	< 0.010	< 0.030	0.011 J	0.012 J	0.038	--	--	< 0.00755
MW-6	6/6/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.031	< 0.010	< 0.010	< 0.026	--	--	--
MW-6	9/12/2016	--	--	--	< 0.0095	< 0.0095	< 0.0095	--	< 0.0095	< 0.0095	< 0.0095	--	--	< 0.0095	< 0.028	< 0.0095	< 0.0095	< 0.0235	--	--	< 0.00717
MW-6	2/22/2019	--	--	--	< 0.00410	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	0.221 J	0.00929 J	0.0137 J	0.24399	--	--	< 0.007783
MW-6	8/27/2019	--	--	--	< 0.00410	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	0.0249 BJ	< 0.00821	< 0.00902	< 0.0335	--	--	< 0.007783
MW-6	11/26/2019	--	--	--	< 0.00410	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	0.0249 BJ	< 0.00821	< 0.00902	< 0.0335	--	--	< 0.007783
MW-6	3/26/2020	--	--	--	< 0.00410	< 0.0116	0.00655 J	--	< 0.0136	0.0112 J	< 0.00396	--	--	< 0.0148	0.0625 BJ	0.0164 J	0.0200 J	0.0989	--	--	< 0.008390
MW-6	6/2/2020	--	--	--	< 0.0203	< 0.0184	< 0.0168	--	< 0.0202	< 0.0179	< 0.0160	--	--	< 0.0158	< 0.0917	< 0.0687	< 0.0674	< 0.114	--	--	< 0.0137
MW-6	9/13/2021	< 0.11	< 0.056	< 0.11	< 0.056	< 0.11	< 0.056	< 0.056	< 0.056	< 0.11	< 0.11	< 0.22	< 0.11	< 0.056	< 0.11	< 0.11	< 0.22	--	< 0.11	< 0.11	--

Table 3
PAH Groundwater Analytical Data
Former BP Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

	CONSTITUENT	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)-anthracene	Benzo(a)pyrene	Benzo(b)-fluoranthene	Benzo(g,h,i)-perylene	Benzo(k)-fluoranthene	Chrysene	Dibenzo(a,h)-anthracene	Fluoranthene	Fluorene	Indeno-(1,2,3-cd)pyrene	Naphthalene	1-Methyl-naphthalene	2-Methyl-naphthalene	Total Naphthalenes	Phenanthrene	Pyrene	Total Polynuclear Aromatic Hydrocarbons
	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	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MTCA METHOD A CLEANUP LEVELS						**0.1**									**160**			**160**			**0.1**
MW-6	12/7/2021	< 0.10	< 0.051	< 0.10	< 0.051	< 0.10	< 0.051	< 0.051	< 0.051	< 0.10	< 0.10	< 0.21	< 0.10	< 0.051	0.30	< 0.10	< 0.21	--	< 0.10	< 0.10	--
MW-9	5/7/2015	--	--	--	< 0.010	< 0.010	< 0.010	--	< 0.010	< 0.010	< 0.010	--	--	< 0.010	< 0.031	< 0.010	0.015 J	0.0355	--	--	< 0.00755
MW-9	9/12/2016	--	--	--	< 0.0095	< 0.0095	< 0.0095	--	< 0.0095	< 0.0095	< 0.0095	--	--	< 0.0095	< 0.028	< 0.0095	< 0.0095	< 0.0235	--	--	< 0.00717
MW-9	2/20/2019	--	--	--	< 0.00410	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	< 0.0198	< 0.00821	0.0150 J	< 0.029005	--	--	< 0.007783
MW-9	5/13/2019	--	--	--	< 0.00410	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	< 0.0198	0.0162 J	0.0140 J	< 0.0401	--	--	< 0.007783
MW-9	8/27/2019	--	--	--	< 0.00410	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	0.0350 BJ	< 0.00821	< 0.00902	< 0.04362	--	--	< 0.007783
MW-9	11/26/2019	--	--	--	< 0.00410	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	0.0350 BJ	< 0.00821	< 0.00902	< 0.04362	--	--	< 0.007783
MW-9	3/26/2020	--	--	--	< 0.00410	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	0.0244 BJ	< 0.00821	< 0.00902	< 0.0208	--	--	< 0.007783
MW-9	6/2/2020	--	--	--	< 0.0203	< 0.0184	< 0.0168	--	< 0.0202	< 0.0179	< 0.0160	--	--	< 0.0158	< 0.0917	< 0.0687	< 0.0674	< 0.114	--	--	< 0.0137
MW-9	8/7/2020	--	--	--	< 0.0203	< 0.0184	< 0.0168	--	< 0.0202	< 0.0179	< 0.0160	--	--	< 0.0158	< 0.917	< 0.687	< 0.674	< 1.14	--	--	< 0.0137
MW-9	6/9/2021	< 0.10	< 0.051	< 0.10	< 0.051	< 0.10	< 0.051	< 0.051	< 0.051	< 0.10	< 0.10	< 0.21	< 0.10	< 0.051	< 0.10	< 0.10	< 0.21	--	< 0.10	< 0.10	--
MW-9	9/13/2021	< 0.10	< 0.052	< 0.10	< 0.052	< 0.10	< 0.052	< 0.052	< 0.052	< 0.10	< 0.10	< 0.21	< 0.10	< 0.052	< 0.10	< 0.10	< 0.21	--	< 0.10	< 0.10	--
MW-9	12/7/2021	< 0.10	< 0.052	< 0.10	< 0.052	< 0.10	< 0.052	< 0.052	< 0.052	< 0.10	< 0.10	< 0.21	< 0.10	< 0.052	< 0.10	< 0.10	< 0.21	--	< 0.10	< 0.10	--
MW-10	5/7/2015	--	--	--	< 0.010	< 0.010	< 0.010	--	< 0.010	< 0.010	< 0.010	--	--	< 0.010	0.77	0.23	0.35	1.35	--	--	< 0.00755
MW-10	9/12/2016	--	--	--	< 0.0095	< 0.0095	< 0.0095	--	< 0.0095	< 0.0095	< 0.0095	--	--	< 0.0095	< 0.029	< 0.0095	< 0.0095	< 0.024	--	--	< 0.00717
MW-11	2/20/2019	--	--	--	< 0.00410	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	< 0.0198	0.00930 J	< 0.00902	< 0.02371	--	--	< 0.007783
MW-11	5/13/2019	--	--	--	0.00965 J	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	0.165 J	0.0258 J	0.0121 J	0.2029	--	--	0.008543
MW-11	8/27/2019	--	--	--	< 0.00410	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	0.169 BJ	0.0102 J	0.0107 J	0.1899	--	--	< 0.007783
MW-11	11/25/2019	--	--	--	< 0.00410	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	0.141 J	< 0.00821	0.0104 J	< 0.1556	--	--	< 0.007783
MW-11	3/25/2020	--	--	--	< 0.00410	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	0.0887 BJ	0.0194 J	0.0106 J	0.119	--	--	< 0.00778
MW-11	6/2/2020	--	--	--	< 0.0203	< 0.0184	< 0.0168	--	< 0.0202	< 0.0179	< 0.0160	--	--	< 0.0158	< 0.0917	< 0.0687	< 0.0674	< 0.114	--	--	< 0.0137
MW-11	8/6/2020	--	--	--	< 0.0203	< 0.0184	< 0.0168	--	< 0.0202	< 0.0179	< 0.0160	--	--	< 0.0158	0.0917 J	< 0.687	0.0678 BJ	< 0.503	--	--	< 0.0137
MW-11	6/9/2021	< 0.10	< 0.051	< 0.10	< 0.051	< 0.10	< 0.051	< 0.051	< 0.051	< 0.10	< 0.10	< 0.20	< 0.10	< 0.051	< 0.10	< 0.10	< 0.20	--	< 0.10	< 0.10	--
MW-11	9/13/2021	< 0.10	< 0.052	< 0.10	< 0.052	< 0.10	< 0.052	< 0.052	< 0.052	< 0.10	< 0.10	< 0.21	< 0.10	< 0.052	< 0.10	< 0.10	< 0.21	--	< 0.10	< 0.10	--
MW-11	12/7/2021	< 0.10	< 0.052	< 0.10	< 0.052	< 0.10	< 0.052	< 0.052	< 0.052	< 0.10	< 0.10	< 0.21	< 0.10	< 0.052	0.38	< 0.10	< 0.21	--	< 0.10	< 0.10	--
MW-12	2/20/2019	--	--	--	< 0.00410	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	4.81	0.897	0.782	6.489	--	--	< 0.0137
MW-12	5/13/2019	--	--	--	< 0.00410	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	0.463	0.328	0.0239 J	0.8149	--	--	< 0.0137
MW-12	8/27/2019	--	--	--	< 0.00410	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	0.257 B	0.235 J	0.0224 J	0.5144	--	--	< 0.0137
MW-12	11/25/2019	--	--	--	< 0.00410	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	0.659	0.244 J	0.0269 J	0.9299	--	--	< 0.0137
MW-12	3/26/2020	--	--	--	< 0.00410	< 0.0116	< 0.00212	--	< 0.0136	< 0.0108	< 0.00396	--	--	< 0.0148	0.523	0.190 J	0.0407 J	0.754	--	--	< 0.0137
MW-12	6/2/2020	--	--	--	< 0.0203	< 0.0184	< 0.0168	--	< 0.0202	< 0.0179	< 0.0160	--	--	< 0.0158	0.519	0.138 J	0.0727 J	0.73	--	--	< 0.0137
MW-12	8/6/2020	--	--	--	< 0.0203	< 0.0184	< 0.0168	--	< 0.0202	< 0.0179	< 0.0160	--	--	< 0.0158	< 0.917	< 0.687	< 0.674	< 1.14	--	--	< 0.0137
MW-12	6/9/2021	< 0.10	< 0.051	< 0.10	< 0.051	< 0.10	< 0.051	< 0.051	< 0.051	< 0.10	< 0.10	< 0.20	< 0.10	< 0.051	1.6	0.44	0.59	--	< 0.10	< 0.10	--
MW-12	9/13/2021	< 0.10	< 0.051	< 0.10	< 0.051	< 0.10	< 0.051	< 0.051	< 0.051	< 0.10	< 0.10	< 0.20	< 0.10	< 0.051	< 0.10	< 0.10	< 0.20	--	< 0.10	< 0.10	--
MW-12	12/7/2021	< 0.10	0.11	< 0.10	< 0.050	< 0.10	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.20	< 0.10	< 0.050	0.32	< 0.10	< 0.20	--	< 0.10	< 0.10	--

Notes:
PAH = Polycyclic Aromatic Hydrocarbons
Total Carcinogenic PAH (cPAH) value is the sum of all analyzed cPAHs
Total naphthlenes value is the sum of the naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene values
<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

Table 4
Select VOCs Groundwater Analytical Data
Former BP Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

	CONSTITUENT	1,3-Butadiene	Chloroform	Ethanol	Hexane	Vinyl Chloride	1,1-Dichloroethene (1,1-DCE)	cis-1,2-Dichloroethene (cis-1,2-DCE)	trans-1,2-dichloroethene	1,1,2-Trichloroethane	Trichloroethene (TCE)	Tetrachloroethene (PCE)
	UNIT	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Well ID	Date											
MTCA METHOD A CLEANUP LEVELS						0.2					5	5
GMW-1	8/27/2019	< 0.157	< 0.0860	< 42	6.17	< 0.118	< 0.188	< 0.0933	< 0.152	< 0.186	< 0.153	< 0.199
GMW-1	3/25/2020	< 0.157	< 0.0860	< 42.0 J0	< 0.305	< 0.118	< 0.188	< 0.0933	< 0.152	< 0.186	< 0.153	< 0.199
GMW-1	6/2/2020	< 0.337 J0	< 0.111	< 42.0	< 0.749	< 0.234	< 0.188	< 0.126	< 0.149	< 0.158	< 0.190	< 0.300
GMW-1	3/8/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
GMW-1	6/9/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 *+	< 1.0 *+
GMW-1	9/13/2021	<1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
GMW-1	12/7/2021	<1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
MW-1	6/3/2020	< 0.337 J0	< 0.111	< 42.0	< 0.749	< 0.234	< 0.188	< 0.126	< 0.149	< 0.158	< 0.190	< 0.300
MW-1	3/8/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-1	6/9/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 *+	< 1.0 *+
MW-2	6/3/2020	< 0.337 J0	< 0.111	46.6 J	< 0.749	< 0.234	< 0.188	< 0.126	< 0.149	< 0.158	< 0.190	< 0.300
MW-2	3/8/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-2	6/9/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 *+	< 1.0 *+
MW-2	12/7/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-3	3/8/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-3	6/9/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 *+	< 1.0 *+
MW-3	9/13/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-3	12/7/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-4	3/8/2021	11	4.0	--	81	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-4	6/9/2021	5.4	< 1.0	--	53	< 1.0 *+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-4	12/7/2021	3.1	< 1.0	--	41	< 1.0	< 1.0	< 1.0	< 1.0	31	< 1.0	< 1.0
MW-5	3/8/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-6	6/2/2020	< 0.337 J0	< 0.111	< 42.0	< 0.749	< 0.234	< 0.188	< 0.126	< 0.149	< 0.158	< 0.190	< 0.300
MW-6	3/8/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-6	6/9/2021	< 1.0 *1	< 1.0	--	< 3.0	< 1.0 *+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-6	9/13/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-6	12/7/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-9	8/27/2019	< 0.157	< 0.0860	< 42	< 0.305	< 0.118	< 0.188	< 0.0933	< 0.152	< 0.186	< 0.153	< 0.199
MW-9	11/26/2019	< 0.157	< 0.0860	54.0 J,J4	< 0.305	< 0.118	< 0.188	< 0.0933	< 0.152	< 0.186	< 0.153	< 0.199
MW-9	3/26/2020	< 0.157	< 0.0860	< 42.0 J0	< 0.305	< 0.118	< 0.188	< 0.0933	< 0.152	< 0.186	< 0.153	< 0.199
MW-9	6/2/2020	< 0.337 J0	< 0.111	< 42.0	< 0.749	< 0.234	< 0.188	< 0.126	< 0.149	< 0.158	< 0.190	< 0.300
MW-9	3/8/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Table 4
Select VOCs Groundwater Analytical Data
Former BP Facility No. 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

	CONSTITUENT	1,3-Butadiene	Chloroform	Ethanol	Hexane	Vinyl Chloride	1,1-Dichloroethene (1,1-DCE)	cis-1,2-Dichloroethene (cis-1,2-DCE)	trans-1,2-dichloroethene	1,1,2-Trichloroethane	Trichloroethene (TCE)	Tetrachloroethene (PCE)
	UNIT	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Well ID	**Date**											
MTCA METHOD A CLEANUP LEVELS						**0.2**					**5**	**5**
MW-9	6/9/2021	< 1.0	< 1.0	--	< 3.0	< 1.0 *+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-9	9/13/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-9	12/7/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-11	8/27/2019	< 0.157	< 0.0860	< 42	< 0.305	< 0.118	< 0.188	< 0.0933	< 0.152	< 0.186	< 0.153	< 0.199
MW-11	11/25/2019	< 0.157	< 0.0860	< 42 J4	< 0.305	< 0.118	< 0.188	< 0.0933	< 0.152	< 0.186	< 0.153	< 0.199
MW-11	3/25/2020	< 0.157	< 0.0860	< 42 J0	< 0.305	< 0.118	< 0.188	< 0.0933	< 0.152	< 0.186	< 0.153	< 0.199
MW-11	6/2/2020	< 0.337 J0	< 0.111	< 42.0	< 0.749	< 0.234	< 0.188	< 0.126	< 0.149	< 0.158	< 0.190	< 0.300
MW-11	3/8/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-11	6/9/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 *+
MW-11	9/13/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-11	12/7/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-12	8/27/2019	< 0.157	< 0.0860	< 42	< 0.305	< 0.118	< 0.188	< 0.0933	< 0.152	< 0.186	< 0.153	< 0.199
MW-12	11/25/2019	< 0.157	< 0.0860	< 42 J4	1.82 J	< 0.118	< 0.188	< 0.0933	< 0.152	3.39	< 0.153	< 0.199
MW-12	3/26/2020	< 0.157	< 0.0860	< 42.0 J0	1.82 J	< 0.118	< 0.188	< 0.0933	< 0.152	< 0.186	< 0.153	< 0.199
MW-12	6/2/2020	< 0.337 J0	< 0.111	< 42.0	1.54 J	< 0.234	< 0.188	< 0.126	< 0.149	< 0.158	< 0.190	< 0.300
MW-12	3/8/2021	< 1.0 F2	< 1.0 F1F2	--	< 3.0 F2	< 1.0 F2	< 1.0 F1F2	< 1.0 F1F2	< 1.0 F1F2	< 1.0 F1F2	< 1.0 F1F2	< 1.0 F1F2
MW-12	6/9/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 *+
MW-12	9/13/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-12	12/7/2021	< 1.0	< 1.0	--	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Notes:

<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 = estimated value – The result is greater than or equal to the Method Detection Limit (MDL) and less than the Limit of Quantitation (LOQ)

J0 = The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration met method criteria

J4 = The associated batch QC was outside the established quality control range for accuracy

*+ = The LCS and/or LCSD is outside acceptance limits, high biased

Table 5
SVE/AS System Operational Data
Former BP Facility 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

Date	SVE Operation (on or off) Arrival / Departure	SVE Hour Meter (Hours)	SVE Period Operation (Hours)	SVE Percent Uptime (%)	AS Operation (on or off) Arrival / Departure	AS Hour Meter (Hours)	AS Period Operation (Hours)	AS Percent Uptime (%)	Cat Ox Inlet Temperature (°F)	Post-Dilution[1]						Effluent PID (ppmv)	Destruction Efficiency (%)	VOC Mass Removal Rate (lbs/day)	VOC Mass Removal Rate (lbs/period)	Cumulative VOC Removal (lbs)	Comments
										Pressure (in. Wc)	Influent Temperature (°F)	Influent Velocity (fpm)	Influent Flowrate (acfm)	Influent Flowrate (scfm)	Influent PID (ppmv)					
Permit Requirements		--	--	--		--	--	--	**> 625**	--	--		--	**<120**	--	**<200**	**>98%** [2]				
04/20/16	off / on	6021.5	--	--	on / on	37.8	--	--	633.0	3.0	83.0	1080.0	36.8	35.5	316.0	0.9	100%	3.61	--	--	Mass removal calculated with data from 12/17/15
04/22/16	on / on	6064.0	42.5	88.5%	on / on	37.8	0.0	0.0%	649.0	2.0	89.0	1110.0	37.9	36.0	283.7	2.1	99%	3.29	5.83	5.83	
04/27/16	on / on	6189.6	125.6	100.0%	off / off	37.8	0.0	0.0%	626.0	3.0	88.0	840.0	28.6	27.4	367.5	6.0	98%	3.24	16.96	22.78	
05/04/16	on / on	6354.2	164.6	100.0%	on / on	37.8	0.0	0.0%	626.0	3.0	91.0	920.0	31.4	29.8	245.5	1.4	99%	2.36	16.17	38.95	
05/10/16	on / on	6496.4	142.2	100.0%	on / on	37.8	0.0	0.0%	647.6	3.0	99.0	760.0	25.9	24.3	211.0	1.5	99%	1.65	9.78	48.73	
06/13/16	off / on	7131.0	634.6	77.8%	off / on	37.8	0.0	0.0%	649.4	2.0	90.0	897.0	30.6	29.1	586.0	2.5	100%	5.48	177.48	226.21	
7/12/16[3]	on / on	--	--	--	off / off	--	--	--	--	--	--	--	--	--	--	0.0	--	--	--	226.21	
08/24/16	on / on	7492.0	361.0	20.9%	on / on	37.8	0.0	0.0%	644.0	5.0	86.5	1650.0	56.3	54.2	288.9	0.4	100%	5.04	75.83	302.03	
09/20/16	on / on	8141.5	649.5	100.2%	on / on	37.8	0.0	0.0%	662.0	4.0	84.0	1029.0	35.1	33.9	398.0	1.1	100%	4.34	117.46	419.50	
10/27/16	off / on	8721.0	579.5	65.3%	off / on	37.8	0.0	0.0%	662.0	1.0	75.0	120.0	4.1	4.0	135.0	0.0	100%	0.17	4.18	423.68	
11/16/16	off / on	8831.1	110.1	22.9%	off / on	37.8	0.0	0.0%	719.6	1.0	59.0	290.0	9.9	9.9	451.8	5.2	99%	1.44	6.63	430.31	
12/15/16	off / on	8989.1	158.0	22.7%	off / on	37.8	0.0	0.0%	645.8	0.5	65.0	280.0	9.5	9.5	388.0	6.4	98%	1.18	7.79	438.10	
01/31/17	on / on	10005.0	1015.9	90.1%	on / on	38.2	0.4	0.0%	662.0	1.0	62.0	480.0	16.4	16.3	159.6	2.5	98%	0.84	35.55	473.65	
02/13/17	off / on	10104.9	99.9	32.0%	off / on	38.2	0.0	0.0%	625.8	1.0	94.5	745.0	25.4	23.9	182.8	0.0	100%	1.41	5.85	479.51	
03/01/17	off / on	10112.1	7.2	1.9%	off / on	38.3	0.1	0.0%	663.8	3.0	120.0	885.0	30.2	27.3	215.0	0.5	100%	1.89	0.57	480.07	
04/26/17	on / on	11208.2	1096.1	81.6%	on / on	38.3	0.0	0.0%	645.8	5.0	78.0	1800.0	61.4	60.1	64.4	0.9	99%	1.25	56.87	536.94	
06/06/17	off / on	11250.7	42.5	4.3%	off / on	38.4	0.1	0.0%	665.6	9.0	152.7	2290.0	78.1	67.7	198.8	3.0	98%	4.34	7.68	544.62	
07/07/17	on / on	11967.3	716.6	96.3%	on / on	38.4	0.0	0.0%	663.8	9.0	122.4	1460.0	49.8	45.4	160.0	3.2	98%	2.34	69.89	614.51	
08/30/17	on / on	13184.3	1217.0	93.9%	off / on	38.4	0.0	0.0%	663.8	10.0	85.0	1900.0	64.8	63.3	395.0	4.5	99%	8.06	408.47	1022.98	
09/21/17	on / on	13708.3	524.0	99.2%	on / on	38.4	0.0	0.0%	663.8	8.0	127.5	2105.0	71.8	64.8	385.5	1.3	100%	8.04	175.56	1198.54	
10/05/17	off / on	13903.3	195.0	58.0%	off / on	38.4	0.0	0.0%	665.6	12.0	127.0	2502.0	85.3	77.8	402.0	2.4	99%	10.07	81.83	1280.37	
11/02/17	on / on	14536.5	633.2	94.2%	on / on	38.4	0.0	0.0%	676.4	8.0	84.2	1882.0	64.2	62.5	230.0	0.2	100%	4.63	122.17	1402.54	
12/27/17	on / on	15330.2	793.7	60.1%	on / on	38.5	0.0	0.0%	663.8	2.0	72.0	860.0	29.3	28.8	24.6	0.1	100%	0.23	7.55	1410.09	
01/30/18	on / on	16147.3	817.1	100.1%	off/off	38.5	0.0	0.0%	663.8	3.0	93.5	980.0	33.4	31.6	13.4	0.2	99%	0.14	4.65	1414.73	
02/21/18	on / on	16675.8	528.5	100.1%	off / off	38.5	0.0	0.0%	663.8	1.9	58.9	819.0	27.9	28.1	19.6	0.0	100%	0.18	3.91	1418.64	
03/13/18	on / on	17135.6	459.8	95.8%	on / on	39.6	1.1	0.2%	662.0	15.0	65.0	2297.0	78.3	80.4	60.9	1.3	98%	1.58	30.22	1448.86	
04/18/18	off / on	17399.9	264.3	30.6%	off / on	281.4	241.8	28.0%	667.0	20.0	68.0	2875.0	98.0	101.3	263.7	2.9	99%	8.60	94.71	1543.57	
05/21/18	on / on	18190.8	790.9	100.0%	on / on	999.2	717.8	90.6%	694.4	1.0	145.0	840.0	28.6	24.7	148.0	3.1	98%	1.18	38.76	1582.33	
06/19/18	off / on	--	--	--	off / on	--	--	--	690.0	--	--	--	--	105.0	140.0	2.0	99%	4.73	--	1582.33	
07/18/18	off / on	19156.4	965.6	69.4%	off / off	1548.9	549.7	39.5%	674.6	12.0	90.0	3105.0	105.9	103.1	49.0	1.0	98%	1.63	65.42	1647.75	
08/23/18	off / on	20019.6	863.2	99.9%	off / off	1548.9	0	0.0%	671.0	30.0	88.0	2234.0	76.2	77.6	104.0	1.0	99%	2.60	93.48	1741.22	
09/13/18	on / on	20523.2	503.6	99.9%	off / off	1548.9	0	0.0%	671.0	5.0	91.5	1730.0	59.0	56.3	102.4	2.3	98%	1.86	38.96	1780.18	
10/05/18	on / on	21048.9	525.7	99.6%	off / off	1548.9	0	0.0%	671.0	5.0	73.0	778.0	26.53	26.2	68.0	0.8	99%	0.57	12.57	1792.74	
11/06/18	off / on	21197.4	148.5	19.3%	off / off	1548.9	0	0.0%	678.2	10.0	108.0	724.0	24.69	23.2	148.0	1.9	99%	1.10	6.83	1799.57	
12/13/18	off / on	21892.5	695.1	78.3%	off / off	1548.9	0	0.0%	789.8	2.0	77.7	758.0	25.85	25.1	578.2	11.7	98%	4.68	135.45	1935.02	
01/10/19	off / on	22560.6	668.1	99.4%	off / off	1548.9	0	0.0%	788.0	4.0	85.0	1100.0	37.51	36.1	377.0	7.8	98%	4.39	122.13	2057.14	
02/28/19	off / on	23429.9	869.3	73.9%	off / off	1548.9	0	0.0%	788.0	8.0	79.6	1870.0	63.77	62.7	128.8	7.5	94%	2.60	94.12	2151.26	
03/25/19	on / on	24032.6	602.7	100.5%	off / off	1548.9	0	0.0%	788.0	7.0	91.9	2065.0	70.42	67.5	31.5	0.6	98%	0.68	17.19	2168.45	
04/03/19	on / on	24248.1	215.5	99.8%	off / off	1548.9	0	0.0%	788.0	7.0	96.1	2073.0	70.69	67.2	141.4	18.9	87%	3.06	27.49	2195.94	
05/08/19	on / off	25088.0	839.9	100.0%	off / off	1548.9	0	0.0%	788.0	7.0	97.1	1989.0	67.82	64.4	11.6	2.4	79%	0.24	8.42	2204.36	Meets permit conditions, under 200ppm
06/27/19	off / on	25380.9	292.9	24.4%	off / off	1548.9	0	0.0%	788.0	15.0	125.8	2968.0	101.21	93.1	57.6	15.3	73%	1.73	21.08	2225.44	Meets permit conditions, under 200ppm
07/23/19	on / on	25745.4	364.5	58.4%	off / off	1548.9	0	0.0%	788.0	13.0	84.8	2335.0	79.62	78.4	72.2	30.2	58%	1.82	27.69	2253.13	Meets permit conditions, under 200ppm
08/22/19	on / off	26462.0	716.6	99.5%	off / off	1548.9	0	0.0%	788.0	13.0	78.8	2238.0	76.32	76.0	3.5	0.6	83%	0.09	2.56	2255.69	Meets permit conditions, under 200ppm
09/04/19	on / on	26483.4	21.4	6.9%	off / off	1548.9	0	0.0%	788.0	20.0	93.6	2340.0	79.79	78.6	18.5	0.2	99%	0.47	0.42	2256.10	
10/28/19	off / on	26570.9	87.5	6.8%	off / off	1548.9	0	0.0%	788.0	13.0	81.6	2975.0	101.45	100.5	23.7	2.9	88%	0.77	2.80	2258.90	
11/19/19	off / off	26805.0	234.1	44.3%	off / off	1548.9	0	0.0%	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	N/A	0.00	0.00	2258.90	System off
12/31/19	off / off	26805.0	0.0	0.0%	off / off	1548.9	0	0.0%	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	N/A	0.00	0.00	2258.90	System off
01/01/20	off / off	26805.0	0.0	0.0%	off / off	1548.9	0	0.0%	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	N/A	0.00	0.00	2258.90	System off
02/01/20	off / off	26805.0	0.0	0.0%	off / off	1548.9	0	0.0%	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	N/A	0.00	0.00	2258.90	System off
03/01/20	off / off	26805.0	0.0	0.0%	off / off	1548.9	0	0.0%	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	N/A	0.00	0.00	2258.90	System off
04/01/20	off / off	26805.0	0.0	0.0%	off / off	1548.9	0	0.0%	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	N/A	0.00	0.00	2258.90	System off
05/01/20	off / off	26805.0	0.0	0.0%	off / off	1548.9	0	0.0%	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	N/A	0.00	0.00	2258.90	System off
06/01/20	off / off	26805.0	0.0	0.0%	off / off	1548.9	0	0.0%	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	N/A	0.00	0.00	2258.90	System off
07/01/20	off / off	26805.0	0.0	0.0%	off / off	1548.9	0	0.0%	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	N/A	0.00	0.00	2258.90	System off
08/25/20	on / on	27124.7	319.7	24.2%	off / off	1548.9	0	0.0%	626.0	10.0	--	1586.0	54.08	--	2.1	0.0	100%	--	--	2258.90	New CATOX installed on 08/04/20, system ran 08/04, 08/05, 8/12 to 08/25
09/01/20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2258.90	SVE System operational errors due to PSDs engaging, Arcadis
10/27/20	on / on	27966.0	841.3	55.6%	off / off	1548.9	0	0.0%	626.0	15	75.0	2975.0	101.45	100.3	39	3.4	91.37%	1.28	44.78	2303.68	Meets permit conditions, under 200ppm, Antea Group operating
11/09/20	on / on	28133.0	167.0	53.5%	off / off	1548.9	0	0.0%	627.0	20	75.0	2970.0	101.28	95.0	8.9	1.2	86.52%	0.27	1.90	2305.58	Meets permit conditions, under 200ppm
12/15/20	off / off	28277.0	144.0	16.7%	off / off	1548.9	0	0.0%	--	--	--	--	--	--	--	--	N/A	--	--	2305.58	System offline due to faulty PSD and system updates
03/25/21	off / on	28281.0	4.0	0.2%	off / off	1548.9	0	0.0%	626.0	12.0	60.0	2022.5	68.97	71.0	108.0	4.3	96%	2.47	0.41	2305.99	System shutdown due to alarm engaging
04/07/21	off / on	28323.0	42.0	13.5%	off / off	1548.9	0	0.0%	628.5	13.0	60.0	2046.1	69.77	72.0	7.7	1.8	77%	0.18	0.31	2306.30	System shutdown due to alarm engaging
05/06/21	off / on	28338.0	15.0	2.2%	off / off	1548.9	0	0.0%	633.2	16.0	95.0	2590.0	88.32	86.0	6.2	0.0	100%	0.17	0.11	2306.41	System shutdown due to alarm engaging
05/18/21	off / on	28437.0	99.0	34.4%	off / off	1548.9	0	0.0%	629.6	9.5	40.0	2149.3	73.29	78.0	--	--	--	--	--	2306.41	System off
06/03/21	off / on	28468.0	31.0	8.1%	off / off	1548.9	0	0.0%	629.6	0.0	60.0	1583.6	54.00	54.0	8.5	0.0	100%	0.15	0.19	2306.60	System shutdown due to alarm engaging
07/08/21	on / on	28496.0	28.0	3.3%	off / off	1550.0	1.1	0.1%	631.4	5.0	75.0	2026.8	69.11	68.0	42.5	0.0	100%	0.93	1.09	2307.69	Pre-AS commissioing Test
07/08/21	on / on	28501.0	5.0	3.9%	off / off	1552.0	2.0	4.2%	629.6	8.0	100.0	2261.0	77.10	73.0	117.4	0.4	100%	2.76	0.57	2308.26	Post-AS commissioning Test
08/18/21	on / on	29239.8	738.8	75.1%	off / off	1557.0	5.0	0.5%	629.6	10.0	90.0	2361.4	80.52	78.0	20.6	0.0	100%	0.52	15.93	2323.61	System down previously due to electrical problems; Cleaned out filter post KO tank
08/31/21	on / on	29550.4	310.6	99.6%	off / off	1557.0	0.0	0.0%	629.6	6.0	90.0	2414.8	82.34	79.0	24.0	0.0	100%	0.61	7.90	2331.51	Pre-AS commissioing Test
09/01/21	on / on	29578.7	28.3	94.3%	off / off	1559.0	2.0	8.3%	627.8	6.0	87.0	2979.2	101.59	98.0	24.6	4.9	80%	0.78	0.92	2332.43	Post-AS commissioning Test
09/17/21	on / on	29887.0	308.3	80.3%	off / off	1564.1	5.1	1.3%	627.8	15.0	77.0	3037.7	103.58	104.0	50.3	0.0	100%	1.68	21.64	2354.07	Flushed water out of CW-4 line connected to VE system
10/26/21	on / on	30495.0	608.0	65.0%	off / off	1564.1	0.0	0.0%	627.8	8.5	86.0	2513.0	108.00	105.0	24.0	0.0	100%	0.81	20.56	2374.62	Faulty phase monitor shutting down system; replaced
11/17/21	off / on	30928.2	433.2	82.0%	off / off	1564.1	0.0	0.0%	631.4	7.0	60.0	2479.4	84.55	86.0	1.0	0.0	100%	0.03	0.50	2375.12	Cat Ox not reaching permit temp at typical VFD setting, VFD set to 50%
12/06/21	on / on	31368.6	440.4	96.6%	off / off	1564.1	0.0	0.0%	629.6	10.0	54.0	2574.6	87.79	91.0	0.4	0.0	100%	0.01	0.22	2375.34	O&M data post self verification

2021 Annual Operational Hours	**3,092**
2021 Average Uptime Percentage	**36.18%**
2021 Average SVE flow rate (scfm):	**81.6**

Table 5
SVE/AS System Operational Data
Former BP Facility 11060
4580 Fauntleroy Way SW, Seattle, WA 98126

SVE = Soil Vapor Extraction
AS = Air Sparge
Air Sparge and Soil Vapor Extraction = Ambient air is pressurized and pumped into the subsurface to volatilize constituents for extraction by the SVE System. Vapor is extracted by vacuum and is treated by combustion before discharging to the atmosphere.

PSCAA Permit = Puget Sound Clean Air Agency (PSCAA) emission discharge permit #29642
< = Operation data must be less than the permit requirement
> = Operation data must be greater than the permit requirement
Period = Length of time since the previous date that operational data was collected
% = Percentage
Uptime = Calculated percentage of operation during the period. (Hours of operation per period / total hours per period)
Cat Ox = Catalytic Oxidizer, the system component that catalyzes combustion of extracted Volatile Organic Compounds (VOCs)
°F = Fahrenheit
in Wc = Inches of water column
fpm = feet per minute
acfm = Actual cubic feet per minute measured by anemometer
scfm = Standard cubic feet per minute. scfm = acfm * (Pactual / Pstandard) * (Tstandard / Tactual)

$$scfm = acfm \cdot \frac{(14.7\ [psi] + (influent\ pressure\ \cdot\ 0.0361\ [\frac{psi}{in.WC}]\ )}{14.7\ [psi]} \frac{68\ °\text{F} + 460\ °R}{(460°R + influent\ temperature\ °\text{F})}$$

Pstandard = Standard pressure = 1 atmosphere (14.7 pounds per square inch [psi])
Tstandard = Standard temperature = 68 °F, as used by the National Institute of Standards and Technology (NIST)
Pactual = Influent vacuum. Units converted in the formula from in.Hg to psi.
Tactual = Influent temperature. Units converted in the formula from °F to °R (degrees Rankine)
PID = Photoionization Detector
PSD = Process Safety Device
ppmv = Parts per million volume
Destruction Efficiency = (influent VOCs - effluent VOCs) / (influent VOCs). VOCs measured by PID
Mass Removal Rate= Flowrate * time * Concentration * Molecular Weight * Molar Density of Air
VOC molecular weight = 86 lb / [lb mol]
Molar density of air = P/RT = 1 atm / (0.7302 [ft^3 * atm] / [lb mol * ºR]) / (68 + 459.67)ºR = 0.00260 lb mol / ft^3
Molar density of air based on standard pressure of 1 atm and standard temperature of 68ºF, as used by the National Institute of Standards and Technology (NIST).
P = pressure
R = gas constant
ºR = degrees Rankine
T = temperature
atm = atmosphere
lb mol = Pound per Mole
ft^3 = cubic feet

$$Mass\ Removal\ Rate = (flowrate\ [scfm] * 60\ [min] x\ 24\ [hr]) x\ (VOCs\ [ppmv] * 10^6 x\ 86\ [\frac{lbs}{mol}] x\ .0026\ [\frac{lbmol}{ft^3}])$$

lbs = Pounds
lbs/day = Pounds per day
lbs/period = Pounds per period
Cumulative mass removed = Previous mass removed + Removal rate * Elapsed time
-- = Not collected/ not available
1 = Influent sample port is located post-dilution thus flow rate through cat ox is equal to exhaust flowrate and compliant with Puget Sound Clean Air Agency (PSCAA) permit #29664 subpart 7b.
2= Destruction Efficiency must be >97% when TPH influent is greater than 200 ppmv per PSCAA permit # 29664 subpart 5.
3=System shut down on 7/13/16 before O&M measurements were collected for the month. System restarted on 8/19/19. Effluent PID collected on 7/12/16 on system visit.
4=Post dilution flow rate is taken in a 2.5-inch pipe. Flow rate on field forms may differ from final table due to flow calculation based on a 2-inch pipe.
5= Flow rate for the 6/19/18 O&M Event was collected from the PLC Screen.
6= New CATOX Installed

Figures

USGS Topographic Map 1:24000
Duwamish Head, WA 2017

FIGURE 1

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

PROJECT NO.	PREPARED BY	REF SCALE	
WA - 11060 SEATTLE	*SAA*	*1:24,000*	
DATE	REVIEWED BY	MAP SCALE	
2/15/2021	*JS*	*1 INCH = 2,000 FEET*	

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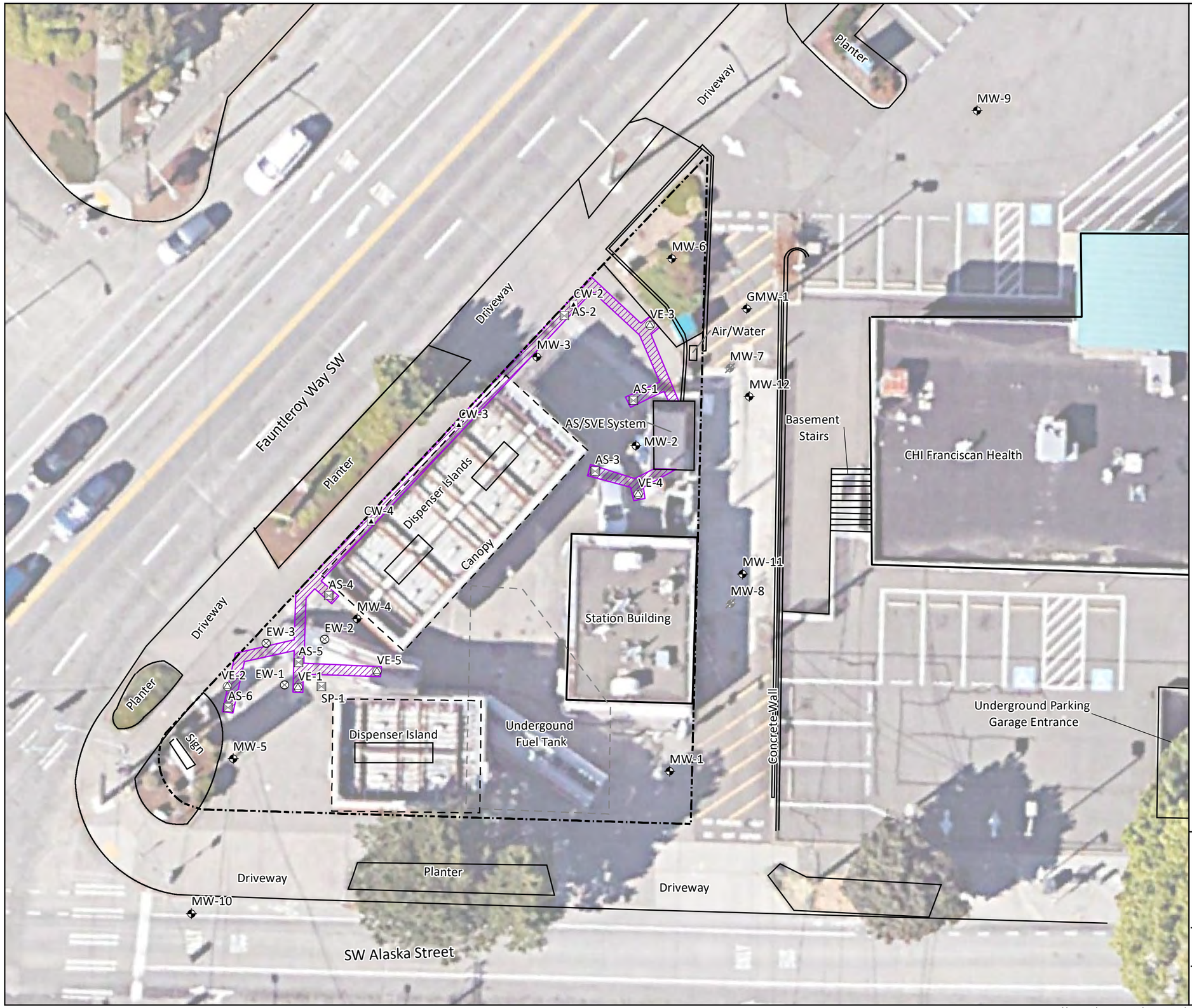

Legend

- Air Sparge
- Vapor Extraction Well
- Combination Air Sparge and Vapor Extraction Well
- Extraction Well
- Monitoring Well
- Abanonded Monitoring Well
- Approximate Property Boundary
- Trench Location

0 4 8 12 16 20 40 60 Feet

N

FIGURE 2

SITE AERIAL MAP
FORMER BP FACILITY NO. 11060
4580 FAUNTLEROY WAY
SEATTLE, WA

PROJECT NO.	PREPARED BY	REF SCALE
WA - 11060 SEATTLE	*SAA*	*1:240*
DATE	REVIEWED BY	MAP SCALE
2/15/2021	*JS*	*1 INCH = 20 FEET*

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\\gis-s3\GIS_Data\Sandbox\!Projects\A-E\BP_WA\11060 Seattle\Project Number\Layout\11060 Aerial Site Map.mxd

MW-3	
Date	9/13/2021
B	< 1.0
T	< 1.0
E	< 1.0
X	< 2.0
MTBE	< 1.0
TPH-G	< 250
TPH-D	140
TPH-O	< 350
Pb-T	< 2.0
Pb-D	< 2.0

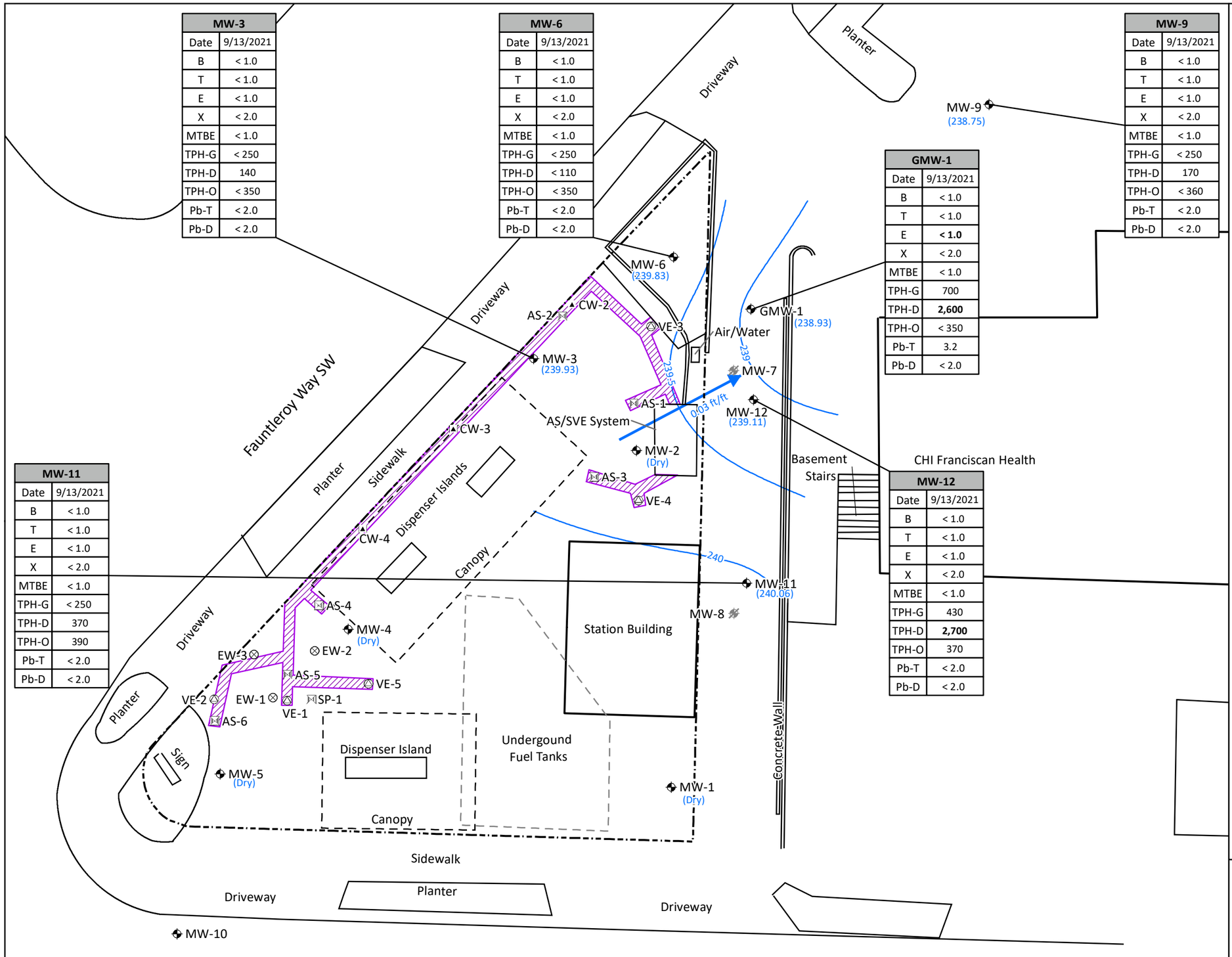
MW-6	
Date	9/13/2021
B	< 1.0
T	< 1.0
E	< 1.0
X	< 2.0
MTBE	< 1.0
TPH-G	< 250
TPH-D	< 110
TPH-O	< 350
Pb-T	< 2.0
Pb-D	< 2.0

MW-9	
Date	9/13/2021
B	< 1.0
T	< 1.0
E	< 1.0
X	< 2.0
MTBE	< 1.0
TPH-G	< 250
TPH-D	170
TPH-O	< 360
Pb-T	< 2.0
Pb-D	< 2.0

GMW-1	
Date	9/13/2021
B	< 1.0
T	< 1.0
E	**< 1.0**
X	< 2.0
MTBE	< 1.0
TPH-G	700
TPH-D	**2,600**
TPH-O	< 350
Pb-T	3.2
Pb-D	< 2.0

MW-11	
Date	9/13/2021
B	< 1.0
T	< 1.0
E	< 1.0
X	< 2.0
MTBE	< 1.0
TPH-G	< 250
TPH-D	370
TPH-O	390
Pb-T	< 2.0
Pb-D	< 2.0

MW-12	
Date	9/13/2021
B	< 1.0
T	< 1.0
E	< 1.0
X	< 2.0
MTBE	< 1.0
TPH-G	430
TPH-D	**2,700**
TPH-O	370
Pb-T	< 2.0
Pb-D	< 2.0



Legend

- Air Sparge
- Vapor Extraction Well
- Combination Air Sparge and Vapor Extraction Well
- Extraction Well
- Monitoring Well
- Abanonded Monitoring Well
- Trench Location
- Groundwater Elevation Contours (ft)
- Inferred Groundwater Flow Direction (0.03 ft/ft)

(238.75) Groundwater Elevation (feet)

Notes:
All concentrations reported in micrograms per liter (ug/L)
B - Benzene
T - Toluene
E - Ethylbenzene
X - Total Xylenes
MTBE - Methyl-tertiary-butyl ether
TPH-G = Total petroleum hydrocarbons as gasoline
TPH-D = Total petroleum hydrocarbons as diesel
TPH-O = Total petroleum hydrocarbons as oil
Pb-T = Total Lead
Pb-D = Dissolved Lead
< - Concentrations were not detected above the laboratory method reporting limit

0 4 8 12 16 20 40 60 Feet

N

FIGURE 3

GROUNDWATER ANALYTICAL AND ELEVATION CONTOUR MAP
SEPTEMBER 13, 2021
FORMER BP FACILITY NO.11060
4580 FAUNTLEROY WAY
SEATTLE, WA

PROJECT NO.	PREPARED BY	REF SCALE
WA - 11060 Seattle	*CH*	*1:240*
DATE	**REVIEWED BY**	**MAP SCALE**
1/28/2022	*JS*	*1 INCH = 20 FEET*

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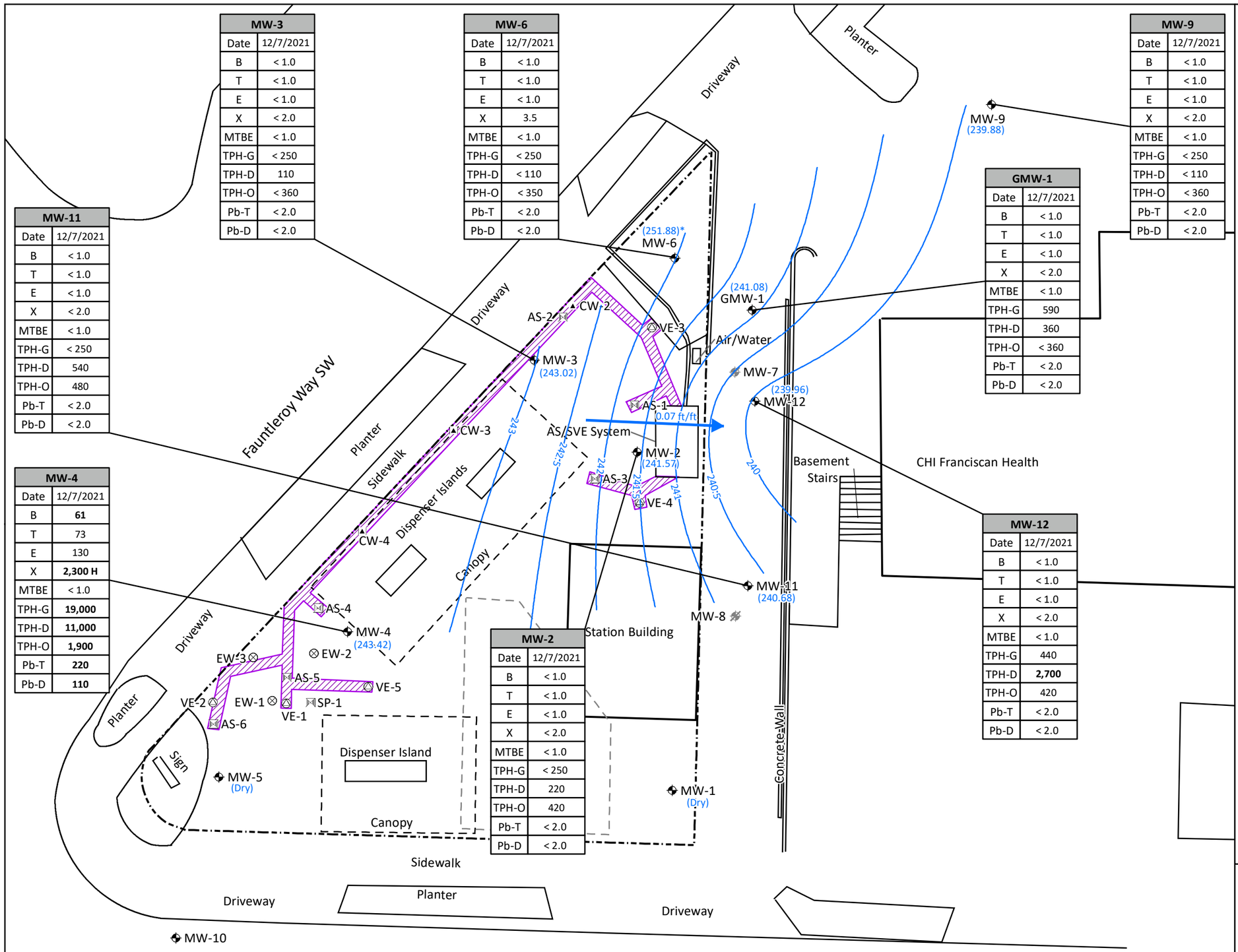

MW-3	
Date	12/7/2021
B	< 1.0
T	< 1.0
E	< 1.0
X	< 2.0
MTBE	< 1.0
TPH-G	< 250
TPH-D	110
TPH-O	< 360
Pb-T	< 2.0
Pb-D	< 2.0

MW-6	
Date	12/7/2021
B	< 1.0
T	< 1.0
E	< 1.0
X	3.5
MTBE	< 1.0
TPH-G	< 250
TPH-D	< 110
TPH-O	< 350
Pb-T	< 2.0
Pb-D	< 2.0

MW-9	
Date	12/7/2021
B	< 1.0
T	< 1.0
E	< 1.0
X	< 2.0
MTBE	< 1.0
TPH-G	< 250
TPH-D	< 110
TPH-O	< 360
Pb-T	< 2.0
Pb-D	< 2.0

GMW-1	
Date	12/7/2021
B	< 1.0
T	< 1.0
E	< 1.0
X	< 2.0
MTBE	< 1.0
TPH-G	590
TPH-D	360
TPH-O	< 360
Pb-T	< 2.0
Pb-D	< 2.0

MW-11	
Date	12/7/2021
B	< 1.0
T	< 1.0
E	< 1.0
X	< 2.0
MTBE	< 1.0
TPH-G	< 250
TPH-D	540
TPH-O	480
Pb-T	< 2.0
Pb-D	< 2.0

MW-4	
Date	12/7/2021
B	**61**
T	73
E	130
X	**2,300 H**
MTBE	< 1.0
TPH-G	**19,000**
TPH-D	**11,000**
TPH-O	**1,900**
Pb-T	**220**
Pb-D	**110**

MW-2	
Date	12/7/2021
B	< 1.0
T	< 1.0
E	< 1.0
X	< 2.0
MTBE	< 1.0
TPH-G	< 250
TPH-D	220
TPH-O	420
Pb-T	< 2.0
Pb-D	< 2.0

MW-12	
Date	12/7/2021
B	< 1.0
T	< 1.0
E	< 1.0
X	< 2.0
MTBE	< 1.0
TPH-G	440
TPH-D	**2,700**
TPH-O	420
Pb-T	< 2.0
Pb-D	< 2.0

Legend

- Air Sparge
- Vapor Extraction Well
- Combination Air Sparge and Vapor Extraction Well
- Extraction Well
- Monitoring Well
- Abanonded Monitoring Well
- Trench Location
- Groundwater Elevation Contours (ft)
- Inferred Groundwater Flow Direction (0.07 ft/ft)

(239.88) Groundwater Elevation (feet)

Notes:
All concentrations reported in micrograms per liter (ug/L)
B - Benzene
T - Toluene
E - Ethylbenzene
X - Total Xylenes
MTBE - Methyl-tertiary-butyl ether
TPH-G = Total petroleum hydrocarbons as gasoline
TPH-D = Total petroleum hydrocarbons as diesel
TPH-O = Total petroleum hydrocarbons as oil
Pb-T = Total Lead
Pb-D = Dissolved Lead
< - Concentrations were not detected above the laboratory method reporting limit
* - Not used in contouring
H - Sample was prepped or analyzed beyond the specified holding time

0 4 8 12 16 20 40 60 Feet

N

FIGURE 4

GROUNDWATER ANALYTICAL AND ELEVATION CONTOUR MAP
DECEMBER 7, 2021
FORMER BP FACILITY NO. 11060
4580 FAUNTLEROY WAY
SEATTLE, WA

PROJECT NO.	PREPARED BY	REF SCALE
WA - 11060 Seattle	CH	1:240
DATE	REVIEWED BY	MAP SCALE
1/28/2022	JS	1 INCH = 20 FEET

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Appendix A - Analytical Lab Reports and Chain-of-Custody Documentation

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins FGS, Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

Laboratory Job ID: 580-105873-1
Client Project/Site: BP - ARCO 11060

For:
Antea USA Inc.
4006 148th Ave NE
Redmond, Washington 98052

Attn: Megan Richard

M. Elaine Walker

Authorized for release by:
9/29/2021 2:49:56 PM

Elaine Walker, Project Manager II
(253)248-4972
m.elaine.walker@eurofinset.com

Table of Contents

Definitions/Glossary

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

Job ID: 580-105873-1

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

Job ID: 580-105873-1

Laboratory: Eurofins FGS, Seattle

Narrative

Job Narrative
580-105873-1

Receipt
Seven samples were received on 9/15/2021 11:35 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were -0.2º C and 0.2º C.

Receipt Exceptions

The Total number of containers listed on the Chain of Custody(COC) was different from the number of containers received for the following samplesGWM-1_20210913 (580-105873-1), MW-3_20210913 (580-105873-2), MW-9_20210913 (580-105873-3), MW-11_20210913 (580-105873-4), MW-12_20210913 (580-105873-5) and MW-6_20210913 (580-105873-7). The COC lists 10 containers per sample while 12 containers were received. The container count received was correct for the analysis requested.

The following sample was submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): MW-6_20210913 (580-105873-7) The sample has been logged for all analysis that were requested on the samples listed on the COC.

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

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

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

GC Semi VOA
Method NWTPH-Dx: The following samples contained a hydrocarbon pattern in the diesel range; however, the elution pattern were earlier than the typical diesel fuel pattern used by the laboratory for quantitative purposes: GWM-1_20210913 (580-105873-1) and MW-12_20210913 (580-105873-5).

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

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

Detection Summary

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

Job ID: 580-105873-1

Client Sample ID: GWM-1_20210913 — Lab Sample ID: 580-105873-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline	700		250	100	ug/L	1		NWTPH-Gx	Total/NA
#2 Diesel (C10-C24)	2600		110	66	ug/L	1		NWTPH-Dx	Total/NA
Lead	3.2		2.0	0.20	ug/L	5		6020B	Total Recoverable

Client Sample ID: MW-3_20210913 — Lab Sample ID: 580-105873-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
#2 Diesel (C10-C24)	140		110	65	ug/L	1		NWTPH-Dx	Total/NA

Client Sample ID: MW-9_20210913 — Lab Sample ID: 580-105873-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
#2 Diesel (C10-C24)	170		110	67	ug/L	1		NWTPH-Dx	Total/NA

Client Sample ID: MW-11_20210913 — Lab Sample ID: 580-105873-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
#2 Diesel (C10-C24)	370		110	67	ug/L	1		NWTPH-Dx	Total/NA
Motor Oil (>C24-C36)	390		360	98	ug/L	1		NWTPH-Dx	Total/NA

Client Sample ID: MW-12_20210913 — Lab Sample ID: 580-105873-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline	430		250	100	ug/L	1		NWTPH-Gx	Total/NA
#2 Diesel (C10-C24)	2700		110	67	ug/L	1		NWTPH-Dx	Total/NA
Motor Oil (>C24-C36)	370		360	99	ug/L	1		NWTPH-Dx	Total/NA

Client Sample ID: Trip Blank_20210913 — Lab Sample ID: 580-105873-6

No Detections.

Client Sample ID: MW-6_20210913 — Lab Sample ID: 580-105873-7

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins FGS, Seattle

Client Sample ID: GWM-1_20210913
Date Collected: 09/13/21 14:45
Date Received: 09/15/21 11:35

Lab Sample ID: 580-105873-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/17/21 01:41	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/17/21 01:41	1
1,3-Butadiene	ND		1.0	0.49	ug/L			09/17/21 01:41	1
Benzene	ND		1.0	0.24	ug/L			09/17/21 01:41	1
Chloroform	ND		1.0	0.26	ug/L			09/17/21 01:41	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/17/21 01:41	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/17/21 01:41	1
Hexane	ND		3.0	0.69	ug/L			09/17/21 01:41	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/17/21 01:41	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/17/21 01:41	1
o-Xylene	ND		1.0	0.39	ug/L			09/17/21 01:41	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/17/21 01:41	1
Toluene	ND		1.0	0.39	ug/L			09/17/21 01:41	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/17/21 01:41	1
Trichloroethene	ND		1.0	0.26	ug/L			09/17/21 01:41	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/17/21 01:41	1
Xylenes, Total	ND		2.0	0.53	ug/L			09/17/21 01:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*		*09/17/21 01:41*	*1*
4-Bromofluorobenzene (Surr)	*87*		*80 - 120*		*09/17/21 01:41*	*1*
Dibromofluoromethane (Surr)	*95*		*80 - 120*		*09/17/21 01:41*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/17/21 01:41*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.10	0.032	ug/L		09/16/21 10:32	09/17/21 17:44	1
2-Methylnaphthalene	ND		0.21	0.040	ug/L		09/16/21 10:32	09/17/21 17:44	1
1-Methylnaphthalene	ND		0.10	0.019	ug/L		09/16/21 10:32	09/17/21 17:44	1
Acenaphthylene	ND		0.051	0.0092	ug/L		09/16/21 10:32	09/17/21 17:44	1
Acenaphthene	ND		0.10	0.014	ug/L		09/16/21 10:32	09/17/21 17:44	1
Fluorene	ND		0.10	0.017	ug/L		09/16/21 10:32	09/17/21 17:44	1
Phenanthrene	ND		0.10	0.032	ug/L		09/16/21 10:32	09/17/21 17:44	1
Anthracene	ND		0.10	0.023	ug/L		09/16/21 10:32	09/17/21 17:44	1
Fluoranthene	ND		0.21	0.018	ug/L		09/16/21 10:32	09/17/21 17:44	1
Pyrene	ND		0.10	0.034	ug/L		09/16/21 10:32	09/17/21 17:44	1
Benzo[a]anthracene	ND		0.051	0.014	ug/L		09/16/21 10:32	09/17/21 17:44	1
Chrysene	ND		0.10	0.016	ug/L		09/16/21 10:32	09/17/21 17:44	1
Benzo[b]fluoranthene	ND		0.051	0.011	ug/L		09/16/21 10:32	09/17/21 17:44	1
Benzo[k]fluoranthene	ND		0.051	0.012	ug/L		09/16/21 10:32	09/17/21 17:44	1
Benzo[a]pyrene	ND		0.10	0.011	ug/L		09/16/21 10:32	09/17/21 17:44	1
Indeno[1,2,3-cd]pyrene	ND		0.051	0.014	ug/L		09/16/21 10:32	09/17/21 17:44	1
Dibenz(a,h)anthracene	ND		0.10	0.015	ug/L		09/16/21 10:32	09/17/21 17:44	1
Benzo[g,h,i]perylene	ND		0.051	0.012	ug/L		09/16/21 10:32	09/17/21 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*83*		*29 - 150*	*09/16/21 10:32*	*09/17/21 17:44*	*1*

Client Sample ID: GWM-1_20210913

Lab Sample ID: 580-105873-1

Date Collected: 09/13/21 14:45

Matrix: Water

Date Received: 09/15/21 11:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**700**		250	100	ug/L			09/18/21 02:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*50 - 150*		*09/18/21 02:00*	*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)	**2600**		110	66	ug/L		09/24/21 10:09	09/27/21 13:22	1
Motor Oil (>C24-C36)	ND		350	97	ug/L		09/24/21 10:09	09/27/21 13:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*78*		*50 - 150*	*09/24/21 10:09*	*09/27/21 13:22*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**3.2**		2.0	0.20	ug/L		09/24/21 20:03	09/27/21 23:18	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.20	ug/L		09/21/21 18:11	09/22/21 11:50	5

Client Sample ID: MW-3_20210913

Lab Sample ID: 580-105873-2

Date Collected: 09/13/21 10:50

Matrix: Water

Date Received: 09/15/21 11:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/17/21 02:06	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/17/21 02:06	1
1,3-Butadiene	ND		1.0	0.49	ug/L			09/17/21 02:06	1
Benzene	ND		1.0	0.24	ug/L			09/17/21 02:06	1
Chloroform	ND		1.0	0.26	ug/L			09/17/21 02:06	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/17/21 02:06	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/17/21 02:06	1
Hexane	ND		3.0	0.69	ug/L			09/17/21 02:06	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/17/21 02:06	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/17/21 02:06	1
o-Xylene	ND		1.0	0.39	ug/L			09/17/21 02:06	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/17/21 02:06	1
Toluene	ND		1.0	0.39	ug/L			09/17/21 02:06	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/17/21 02:06	1
Trichloroethene	ND		1.0	0.26	ug/L			09/17/21 02:06	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/17/21 02:06	1
Xylenes, Total	ND		2.0	0.53	ug/L			09/17/21 02:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*09/17/21 02:06*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*09/17/21 02:06*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*09/17/21 02:06*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/17/21 02:06*	*1*

Client Sample ID: MW-3_20210913

Lab Sample ID: 580-105873-2

Date Collected: 09/13/21 10:50

Matrix: Water

Date Received: 09/15/21 11:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.10	0.032	ug/L		09/16/21 10:32	09/17/21 18:06	1
2-Methylnaphthalene	ND		0.20	0.040	ug/L		09/16/21 10:32	09/17/21 18:06	1
1-Methylnaphthalene	ND		0.10	0.019	ug/L		09/16/21 10:32	09/17/21 18:06	1
Acenaphthylene	ND		0.051	0.0091	ug/L		09/16/21 10:32	09/17/21 18:06	1
Acenaphthene	ND		0.10	0.014	ug/L		09/16/21 10:32	09/17/21 18:06	1
Fluorene	ND		0.10	0.017	ug/L		09/16/21 10:32	09/17/21 18:06	1
Phenanthrene	ND		0.10	0.032	ug/L		09/16/21 10:32	09/17/21 18:06	1
Anthracene	ND		0.10	0.022	ug/L		09/16/21 10:32	09/17/21 18:06	1
Fluoranthene	ND		0.20	0.018	ug/L		09/16/21 10:32	09/17/21 18:06	1
Pyrene	ND		0.10	0.034	ug/L		09/16/21 10:32	09/17/21 18:06	1
Benzo[a]anthracene	ND		0.051	0.014	ug/L		09/16/21 10:32	09/17/21 18:06	1
Chrysene	ND		0.10	0.016	ug/L		09/16/21 10:32	09/17/21 18:06	1
Benzo[b]fluoranthene	ND		0.051	0.011	ug/L		09/16/21 10:32	09/17/21 18:06	1
Benzo[k]fluoranthene	ND		0.051	0.012	ug/L		09/16/21 10:32	09/17/21 18:06	1
Benzo[a]pyrene	ND		0.10	0.011	ug/L		09/16/21 10:32	09/17/21 18:06	1
Indeno[1,2,3-cd]pyrene	ND		0.051	0.014	ug/L		09/16/21 10:32	09/17/21 18:06	1
Dibenz(a,h)anthracene	ND		0.10	0.015	ug/L		09/16/21 10:32	09/17/21 18:06	1
Benzo[g,h,i]perylene	ND		0.051	0.012	ug/L		09/16/21 10:32	09/17/21 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*94*		*29 - 150*	*09/16/21 10:32*	*09/17/21 18:06*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		250	100	ug/L			09/18/21 02:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*50 - 150*		*09/18/21 02:24*	*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)	**140**		110	65	ug/L		09/24/21 10:09	09/27/21 13:42	1
Motor Oil (>C24-C36)	ND		350	96	ug/L		09/24/21 10:09	09/27/21 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*63*		*50 - 150*	*09/24/21 10:09*	*09/27/21 13:42*	*1*

Method: 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		09/24/21 20:03	09/27/21 23:14	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.20	ug/L		09/21/21 18:11	09/22/21 11:54	5

Client Sample ID: MW-9_20210913

Lab Sample ID: 580-105873-3

Date Collected: 09/13/21 15:30

Matrix: Water

Date Received: 09/15/21 11:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/17/21 14:27	1

Client Sample ID: MW-9_20210913
Date Collected: 09/13/21 15:30
Date Received: 09/15/21 11:35

Lab Sample ID: 580-105873-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/17/21 14:27	1
1,3-Butadiene	ND		1.0	0.49	ug/L			09/17/21 14:27	1
Benzene	ND		1.0	0.24	ug/L			09/17/21 14:27	1
Chloroform	ND		1.0	0.26	ug/L			09/17/21 14:27	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/17/21 14:27	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/17/21 14:27	1
Hexane	ND		3.0	0.69	ug/L			09/17/21 14:27	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/17/21 14:27	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/17/21 14:27	1
o-Xylene	ND		1.0	0.39	ug/L			09/17/21 14:27	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/17/21 14:27	1
Toluene	ND		1.0	0.39	ug/L			09/17/21 14:27	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/17/21 14:27	1
Trichloroethene	ND		1.0	0.26	ug/L			09/17/21 14:27	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/17/21 14:27	1
Xylenes, Total	ND		2.0	0.53	ug/L			09/17/21 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*09/17/21 14:27*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*09/17/21 14:27*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*09/17/21 14:27*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*09/17/21 14:27*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.10	0.032	ug/L		09/16/21 10:32	09/17/21 18:29	1
2-Methylnaphthalene	ND		0.21	0.040	ug/L		09/16/21 10:32	09/17/21 18:29	1
1-Methylnaphthalene	ND		0.10	0.020	ug/L		09/16/21 10:32	09/17/21 18:29	1
Acenaphthylene	ND		0.052	0.0093	ug/L		09/16/21 10:32	09/17/21 18:29	1
Acenaphthene	ND		0.10	0.014	ug/L		09/16/21 10:32	09/17/21 18:29	1
Fluorene	ND		0.10	0.018	ug/L		09/16/21 10:32	09/17/21 18:29	1
Phenanthrene	ND		0.10	0.032	ug/L		09/16/21 10:32	09/17/21 18:29	1
Anthracene	ND		0.10	0.023	ug/L		09/16/21 10:32	09/17/21 18:29	1
Fluoranthene	ND		0.21	0.019	ug/L		09/16/21 10:32	09/17/21 18:29	1
Pyrene	ND		0.10	0.034	ug/L		09/16/21 10:32	09/17/21 18:29	1
Benzo[a]anthracene	ND		0.052	0.014	ug/L		09/16/21 10:32	09/17/21 18:29	1
Chrysene	ND		0.10	0.017	ug/L		09/16/21 10:32	09/17/21 18:29	1
Benzo[b]fluoranthene	ND		0.052	0.011	ug/L		09/16/21 10:32	09/17/21 18:29	1
Benzo[k]fluoranthene	ND		0.052	0.012	ug/L		09/16/21 10:32	09/17/21 18:29	1
Benzo[a]pyrene	ND		0.10	0.011	ug/L		09/16/21 10:32	09/17/21 18:29	1
Indeno[1,2,3-cd]pyrene	ND		0.052	0.014	ug/L		09/16/21 10:32	09/17/21 18:29	1
Dibenz(a,h)anthracene	ND		0.10	0.015	ug/L		09/16/21 10:32	09/17/21 18:29	1
Benzo[g,h,i]perylene	ND		0.052	0.012	ug/L		09/16/21 10:32	09/17/21 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*96*		*29 - 150*	*09/16/21 10:32*	*09/17/21 18:29*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		250	100	ug/L			09/18/21 03:13	1

Client Sample ID: MW-9_20210913

Lab Sample ID: 580-105873-3

Date Collected: 09/13/21 15:30

Matrix: Water

Date Received: 09/15/21 11:35

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*50 - 150*		*09/18/21 03:13*	*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)	**170**		110	67	ug/L		09/24/21 10:09	09/27/21 14:02	1
Motor Oil (>C24-C36)	ND		360	99	ug/L		09/24/21 10:09	09/27/21 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*68*		*50 - 150*	*09/24/21 10:09*	*09/27/21 14:02*	*1*

Method: 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		09/24/21 20:03	09/28/21 00:25	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.20	ug/L		09/21/21 18:11	09/22/21 11:57	5

Client Sample ID: MW-11_20210913

Lab Sample ID: 580-105873-4

Date Collected: 09/13/21 13:30

Matrix: Water

Date Received: 09/15/21 11:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/17/21 14:52	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/17/21 14:52	1
1,3-Butadiene	ND		1.0	0.49	ug/L			09/17/21 14:52	1
Benzene	ND		1.0	0.24	ug/L			09/17/21 14:52	1
Chloroform	ND		1.0	0.26	ug/L			09/17/21 14:52	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/17/21 14:52	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/17/21 14:52	1
Hexane	ND		3.0	0.69	ug/L			09/17/21 14:52	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/17/21 14:52	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/17/21 14:52	1
o-Xylene	ND		1.0	0.39	ug/L			09/17/21 14:52	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/17/21 14:52	1
Toluene	ND		1.0	0.39	ug/L			09/17/21 14:52	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/17/21 14:52	1
Trichloroethene	ND		1.0	0.26	ug/L			09/17/21 14:52	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/17/21 14:52	1
Xylenes, Total	ND		2.0	0.53	ug/L			09/17/21 14:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*09/17/21 14:52*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*09/17/21 14:52*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*09/17/21 14:52*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/17/21 14:52*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.10	0.032	ug/L		09/16/21 10:32	09/17/21 18:51	1
2-Methylnaphthalene	ND		0.21	0.041	ug/L		09/16/21 10:32	09/17/21 18:51	1

Client Sample ID: MW-11_20210913

Lab Sample ID: 580-105873-4

Date Collected: 09/13/21 13:30

Matrix: Water

Date Received: 09/15/21 11:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.10	0.020	ug/L		09/16/21 10:32	09/17/21 18:51	1
Acenaphthylene	ND		0.052	0.0094	ug/L		09/16/21 10:32	09/17/21 18:51	1
Acenaphthene	ND		0.10	0.015	ug/L		09/16/21 10:32	09/17/21 18:51	1
Fluorene	ND		0.10	0.018	ug/L		09/16/21 10:32	09/17/21 18:51	1
Phenanthrene	ND		0.10	0.032	ug/L		09/16/21 10:32	09/17/21 18:51	1
Anthracene	ND		0.10	0.023	ug/L		09/16/21 10:32	09/17/21 18:51	1
Fluoranthene	ND		0.21	0.019	ug/L		09/16/21 10:32	09/17/21 18:51	1
Pyrene	ND		0.10	0.034	ug/L		09/16/21 10:32	09/17/21 18:51	1
Benzo[a]anthracene	ND		0.052	0.015	ug/L		09/16/21 10:32	09/17/21 18:51	1
Chrysene	ND		0.10	0.017	ug/L		09/16/21 10:32	09/17/21 18:51	1
Benzo[b]fluoranthene	ND		0.052	0.011	ug/L		09/16/21 10:32	09/17/21 18:51	1
Benzo[k]fluoranthene	ND		0.052	0.013	ug/L		09/16/21 10:32	09/17/21 18:51	1
Benzo[a]pyrene	ND		0.10	0.011	ug/L		09/16/21 10:32	09/17/21 18:51	1
Indeno[1,2,3-cd]pyrene	ND		0.052	0.015	ug/L		09/16/21 10:32	09/17/21 18:51	1
Dibenz(a,h)anthracene	ND		0.10	0.016	ug/L		09/16/21 10:32	09/17/21 18:51	1
Benzo[g,h,i]perylene	ND		0.052	0.013	ug/L		09/16/21 10:32	09/17/21 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*97*		*29 - 150*	*09/16/21 10:32*	*09/17/21 18:51*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		250	100	ug/L			09/18/21 03:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*50 - 150*		*09/18/21 03:38*	*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)	**370**		110	67	ug/L		09/24/21 10:09	09/27/21 14:22	1
Motor Oil (>C24-C36)	**390**		360	98	ug/L		09/24/21 10:09	09/27/21 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*50 - 150*	*09/24/21 10:09*	*09/27/21 14:22*	*1*

Method: 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		09/24/21 20:03	09/28/21 00:29	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.20	ug/L		09/21/21 18:11	09/22/21 12:01	5

Client Sample ID: MW-12_20210913

Lab Sample ID: 580-105873-5

Date Collected: 09/13/21 14:15

Matrix: Water

Date Received: 09/15/21 11:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/17/21 15:17	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/17/21 15:17	1
1,3-Butadiene	ND		1.0	0.49	ug/L			09/17/21 15:17	1

Client Sample ID: MW-12_20210913

Lab Sample ID: 580-105873-5

Date Collected: 09/13/21 14:15

Matrix: Water

Date Received: 09/15/21 11:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.24	ug/L			09/17/21 15:17	1
Chloroform	ND		1.0	0.26	ug/L			09/17/21 15:17	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/17/21 15:17	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/17/21 15:17	1
Hexane	ND		3.0	0.69	ug/L			09/17/21 15:17	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/17/21 15:17	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/17/21 15:17	1
o-Xylene	ND		1.0	0.39	ug/L			09/17/21 15:17	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/17/21 15:17	1
Toluene	ND		1.0	0.39	ug/L			09/17/21 15:17	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/17/21 15:17	1
Trichloroethene	ND		1.0	0.26	ug/L			09/17/21 15:17	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/17/21 15:17	1
Xylenes, Total	ND		2.0	0.53	ug/L			09/17/21 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*09/17/21 15:17*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*09/17/21 15:17*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*09/17/21 15:17*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*09/17/21 15:17*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.10	0.032	ug/L		09/16/21 10:32	09/17/21 19:14	1
2-Methylnaphthalene	ND		0.20	0.040	ug/L		09/16/21 10:32	09/17/21 19:14	1
1-Methylnaphthalene	ND		0.10	0.019	ug/L		09/16/21 10:32	09/17/21 19:14	1
Acenaphthylene	ND		0.051	0.0092	ug/L		09/16/21 10:32	09/17/21 19:14	1
Acenaphthene	ND		0.10	0.014	ug/L		09/16/21 10:32	09/17/21 19:14	1
Fluorene	ND		0.10	0.017	ug/L		09/16/21 10:32	09/17/21 19:14	1
Phenanthrene	ND		0.10	0.032	ug/L		09/16/21 10:32	09/17/21 19:14	1
Anthracene	ND		0.10	0.022	ug/L		09/16/21 10:32	09/17/21 19:14	1
Fluoranthene	ND		0.20	0.018	ug/L		09/16/21 10:32	09/17/21 19:14	1
Pyrene	ND		0.10	0.034	ug/L		09/16/21 10:32	09/17/21 19:14	1
Benzo[a]anthracene	ND		0.051	0.014	ug/L		09/16/21 10:32	09/17/21 19:14	1
Chrysene	ND		0.10	0.016	ug/L		09/16/21 10:32	09/17/21 19:14	1
Benzo[b]fluoranthene	ND		0.051	0.011	ug/L		09/16/21 10:32	09/17/21 19:14	1
Benzo[k]fluoranthene	ND		0.051	0.012	ug/L		09/16/21 10:32	09/17/21 19:14	1
Benzo[a]pyrene	ND		0.10	0.011	ug/L		09/16/21 10:32	09/17/21 19:14	1
Indeno[1,2,3-cd]pyrene	ND		0.051	0.014	ug/L		09/16/21 10:32	09/17/21 19:14	1
Dibenz(a,h)anthracene	ND		0.10	0.015	ug/L		09/16/21 10:32	09/17/21 19:14	1
Benzo[g,h,i]perylene	ND		0.051	0.012	ug/L		09/16/21 10:32	09/17/21 19:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*96*		*29 - 150*	*09/16/21 10:32*	*09/17/21 19:14*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**430**		250	100	ug/L			09/18/21 04:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*50 - 150*		*09/18/21 04:02*	*1*

Client Sample ID: MW-12_20210913

Lab Sample ID: 580-105873-5

Date Collected: 09/13/21 14:15

Matrix: Water

Date Received: 09/15/21 11:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	2700		110	67	ug/L		09/24/21 10:09	09/27/21 14:42	1
Motor Oil (>C24-C36)	370		360	99	ug/L		09/24/21 10:09	09/27/21 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*99*		*50 - 150*	*09/24/21 10:09*	*09/27/21 14:42*	*1*

Method: 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		09/24/21 20:03	09/28/21 01:17	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.20	ug/L		09/21/21 18:11	09/22/21 12:05	5

Client Sample ID: Trip Blank_20210913

Lab Sample ID: 580-105873-6

Date Collected: 09/13/21 00:00

Matrix: Water

Date Received: 09/15/21 11:35

Method: 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			09/17/21 15:42	1
Toluene	ND		1.0	0.39	ug/L			09/17/21 15:42	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/17/21 15:42	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/17/21 15:42	1
o-Xylene	ND		1.0	0.39	ug/L			09/17/21 15:42	1
Xylenes, Total	ND		2.0	0.53	ug/L			09/17/21 15:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 120*		*09/17/21 15:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*09/17/21 15:42*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*09/17/21 15:42*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*09/17/21 15:42*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		250	100	ug/L			09/18/21 00:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*50 - 150*		*09/18/21 00:22*	*1*

Client Sample ID: MW-6_20210913

Lab Sample ID: 580-105873-7

Date Collected: 09/13/21 10:15

Matrix: Water

Date Received: 09/15/21 11:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/17/21 16:07	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/17/21 16:07	1
1,3-Butadiene	ND		1.0	0.49	ug/L			09/17/21 16:07	1
Benzene	ND		1.0	0.24	ug/L			09/17/21 16:07	1
Chloroform	ND		1.0	0.26	ug/L			09/17/21 16:07	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/17/21 16:07	1

Client Sample ID: MW-6_20210913

Lab Sample ID: 580-105873-7

Date Collected: 09/13/21 10:15

Matrix: Water

Date Received: 09/15/21 11:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.0	0.50	ug/L			09/17/21 16:07	1
Hexane	ND		3.0	0.69	ug/L			09/17/21 16:07	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/17/21 16:07	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/17/21 16:07	1
o-Xylene	ND		1.0	0.39	ug/L			09/17/21 16:07	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/17/21 16:07	1
Toluene	ND		1.0	0.39	ug/L			09/17/21 16:07	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/17/21 16:07	1
Trichloroethene	ND		1.0	0.26	ug/L			09/17/21 16:07	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/17/21 16:07	1
Xylenes, Total	ND		2.0	0.53	ug/L			09/17/21 16:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*09/17/21 16:07*	*1*
4-Bromofluorobenzene (Surr)	*82*		*80 - 120*		*09/17/21 16:07*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 120*		*09/17/21 16:07*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/17/21 16:07*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.11	0.035	ug/L		09/16/21 10:32	09/17/21 19:36	1
2-Methylnaphthalene	ND		0.22	0.044	ug/L		09/16/21 10:32	09/17/21 19:36	1
1-Methylnaphthalene	ND		0.11	0.021	ug/L		09/16/21 10:32	09/17/21 19:36	1
Acenaphthylene	ND		0.056	0.010	ug/L		09/16/21 10:32	09/17/21 19:36	1
Acenaphthene	ND		0.11	0.016	ug/L		09/16/21 10:32	09/17/21 19:36	1
Fluorene	ND		0.11	0.019	ug/L		09/16/21 10:32	09/17/21 19:36	1
Phenanthrene	ND		0.11	0.035	ug/L		09/16/21 10:32	09/17/21 19:36	1
Anthracene	ND		0.11	0.025	ug/L		09/16/21 10:32	09/17/21 19:36	1
Fluoranthene	ND		0.22	0.020	ug/L		09/16/21 10:32	09/17/21 19:36	1
Pyrene	ND		0.11	0.037	ug/L		09/16/21 10:32	09/17/21 19:36	1
Benzo[a]anthracene	ND		0.056	0.016	ug/L		09/16/21 10:32	09/17/21 19:36	1
Chrysene	ND		0.11	0.018	ug/L		09/16/21 10:32	09/17/21 19:36	1
Benzo[b]fluoranthene	ND		0.056	0.012	ug/L		09/16/21 10:32	09/17/21 19:36	1
Benzo[k]fluoranthene	ND		0.056	0.013	ug/L		09/16/21 10:32	09/17/21 19:36	1
Benzo[a]pyrene	ND		0.11	0.012	ug/L		09/16/21 10:32	09/17/21 19:36	1
Indeno[1,2,3-cd]pyrene	ND		0.056	0.016	ug/L		09/16/21 10:32	09/17/21 19:36	1
Dibenz(a,h)anthracene	ND		0.11	0.017	ug/L		09/16/21 10:32	09/17/21 19:36	1
Benzo[g,h,i]perylene	ND		0.056	0.013	ug/L		09/16/21 10:32	09/17/21 19:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*99*		*29 - 150*	*09/16/21 10:32*	*09/17/21 19:36*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		250	100	ug/L			09/18/21 04:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*50 - 150*		*09/18/21 04:26*	*1*

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

Job ID: 580-105873-1

Client Sample ID: MW-6_20210913

Date Collected: 09/13/21 10:15
Date Received: 09/15/21 11:35

Lab Sample ID: 580-105873-7

Matrix: Water

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	66	ug/L		09/24/21 10:09	09/27/21 15:02	1
Motor Oil (>C24-C36)	ND		350	97	ug/L		09/24/21 10:09	09/27/21 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*68*		*50 - 150*	*09/24/21 10:09*	*09/27/21 15:02*	*1*

Method: 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		09/24/21 20:03	09/28/21 00:10	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.20	ug/L		09/21/21 18:11	09/22/21 12:08	5

Surrogate Summary

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

Job ID: 580-105873-1

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

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
580-105873-1	GWM-1_20210913	97	87	95	102
580-105873-2	MW-3_20210913	102	92	100	99
580-105873-3	MW-9_20210913	104	94	99	105
580-105873-4	MW-11_20210913	104	93	100	98
580-105873-5	MW-12_20210913	101	100	98	105
580-105873-6	Trip Blank_20210913	104	91	100	104
580-105873-7	MW-6_20210913	106	82	97	100
LCS 580-368043/10	Lab Control Sample	95	97	99	106
LCS 580-368080/4	Lab Control Sample	96	93	95	110
LCSD 580-368043/11	Lab Control Sample Dup	93	98	98	103
LCSD 580-368080/5	Lab Control Sample Dup	98	94	99	101
MB 580-368043/13	Method Blank	100	87	99	105
MB 580-368080/47	Method Blank	104	94	103	106

Surrogate Legend

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

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

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TPHL
Lab Sample ID	Client Sample ID	(29-150)
580-105873-1	GWM-1_20210913	83
580-105873-2	MW-3_20210913	94
580-105873-3	MW-9_20210913	96
580-105873-4	MW-11_20210913	97
580-105873-5	MW-12_20210913	96
580-105873-7	MW-6_20210913	99
LCS 580-367975/2-A	Lab Control Sample	90
LCSD 580-367975/3-A	Lab Control Sample Dup	100
MB 580-367975/1-A	Method Blank	103

Surrogate Legend

TPHL = Terphenyl-d14

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

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		BFB2
Lab Sample ID	Client Sample ID	(50-150)
580-105873-1	GWM-1_20210913	127
580-105873-2	MW-3_20210913	84
580-105873-3	MW-9_20210913	91
580-105873-4	MW-11_20210913	89
580-105873-5	MW-12_20210913	112
580-105873-6	Trip Blank_20210913	87

Surrogate Summary

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

Job ID: 580-105873-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	BFB2 (50-150)
580-105873-7	MW-6_20210913	89
LCS 580-368168/3	Lab Control Sample	105
LCSD 580-368168/4	Lab Control Sample Dup	107
MB 580-368168/5	Method Blank	89

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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)
580-105873-1	GWM-1_20210913	78
580-105873-2	MW-3_20210913	63
580-105873-3	MW-9_20210913	68
580-105873-4	MW-11_20210913	74
580-105873-5	MW-12_20210913	99
580-105873-7	MW-6_20210913	68
LCS 580-368748/2-A	Lab Control Sample	87
LCSD 580-368748/3-A	Lab Control Sample Dup	97
MB 580-368748/1-A	Method Blank	67

Surrogate Legend

OTPH = o-Terphenyl

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

Lab Sample ID: MB 580-368043/13
Matrix: Water
Analysis Batch: 368043

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/16/21 21:33	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/16/21 21:33	1
1,3-Butadiene	ND		1.0	0.49	ug/L			09/16/21 21:33	1
Benzene	ND		1.0	0.24	ug/L			09/16/21 21:33	1
Chloroform	ND		1.0	0.26	ug/L			09/16/21 21:33	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/16/21 21:33	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/16/21 21:33	1
Hexane	ND		3.0	0.69	ug/L			09/16/21 21:33	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/16/21 21:33	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/16/21 21:33	1
o-Xylene	ND		1.0	0.39	ug/L			09/16/21 21:33	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/16/21 21:33	1
Toluene	ND		1.0	0.39	ug/L			09/16/21 21:33	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/16/21 21:33	1
Trichloroethene	ND		1.0	0.26	ug/L			09/16/21 21:33	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/16/21 21:33	1
Xylenes, Total	ND		2.0	0.53	ug/L			09/16/21 21:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*09/16/21 21:33*	*1*
4-Bromofluorobenzene (Surr)	*87*		*80 - 120*		*09/16/21 21:33*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*09/16/21 21:33*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*09/16/21 21:33*	*1*

Lab Sample ID: LCS 580-368043/10
Matrix: Water
Analysis Batch: 368043

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	10.0	10.4		ug/L		104	80 - 121
1,1-Dichloroethene	10.0	10.1		ug/L		101	70 - 129
1,3-Butadiene	10.0	9.73		ug/L		97	24 - 150
Benzene	10.0	9.29		ug/L		93	80 - 122
Chloroform	10.0	9.50		ug/L		95	78 - 127
cis-1,2-Dichloroethene	10.0	9.64		ug/L		96	76 - 120
Ethylbenzene	10.0	9.70		ug/L		97	80 - 120
Hexane	10.0	9.75		ug/L		98	60 - 126
Methyl tert-butyl ether	10.0	10.3		ug/L		103	72 - 120
m-Xylene & p-Xylene	10.0	9.58		ug/L		96	80 - 120
o-Xylene	10.0	10.5		ug/L		105	80 - 120
Tetrachloroethene	10.0	10.6		ug/L		106	76 - 125
Toluene	10.0	9.83		ug/L		98	80 - 120
trans-1,2-Dichloroethene	10.0	9.24		ug/L		92	75 - 120
Trichloroethene	10.0	9.43		ug/L		94	80 - 125
Vinyl chloride	10.0	9.33		ug/L		93	31 - 150
Xylenes, Total	20.0	20.1		ug/L		100	80 - 120

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

Lab Sample ID: LCS 580-368043/10
Matrix: Water
Analysis Batch: 368043

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 120*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*106*		*80 - 120*

Lab Sample ID: LCSD 580-368043/11
Matrix: Water
Analysis Batch: 368043

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
1,1,2-Trichloroethane			10.0	10.5		ug/L		105	80 - 121	1	14
1,1-Dichloroethene			10.0	9.91		ug/L		99	70 - 129	2	23
1,3-Butadiene			10.0	9.14		ug/L		91	24 - 150	6	26
Benzene			10.0	9.55		ug/L		96	80 - 122	3	14
Chloroform			10.0	9.98		ug/L		100	78 - 127	5	14
cis-1,2-Dichloroethene			10.0	9.62		ug/L		96	76 - 120	0	20
Ethylbenzene			10.0	9.87		ug/L		99	80 - 120	2	14
Hexane			10.0	8.62		ug/L		86	60 - 126	12	19
Methyl tert-butyl ether			10.0	10.7		ug/L		107	72 - 120	3	18
m-Xylene & p-Xylene			10.0	9.57		ug/L		96	80 - 120	0	14
o-Xylene			10.0	10.6		ug/L		106	80 - 120	1	16
Tetrachloroethene			10.0	10.0		ug/L		100	76 - 125	5	13
Toluene			10.0	9.62		ug/L		96	80 - 120	2	13
trans-1,2-Dichloroethene			10.0	9.57		ug/L		96	75 - 120	3	21
Trichloroethene			10.0	9.81		ug/L		98	80 - 125	4	13
Vinyl chloride			10.0	8.81		ug/L		88	31 - 150	6	26
Xylenes, Total			20.0	20.2		ug/L		101	80 - 120	0	16

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*93*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*80 - 120*
Toluene-d8 (Surr)	*103*		*80 - 120*

Lab Sample ID: MB 580-368080/47
Matrix: Water
Analysis Batch: 368080

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/17/21 14:02	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/17/21 14:02	1
1,3-Butadiene	ND		1.0	0.49	ug/L			09/17/21 14:02	1
Benzene	ND		1.0	0.24	ug/L			09/17/21 14:02	1
Chloroform	ND		1.0	0.26	ug/L			09/17/21 14:02	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/17/21 14:02	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/17/21 14:02	1
Hexane	ND		3.0	0.69	ug/L			09/17/21 14:02	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/17/21 14:02	1

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

Lab Sample ID: MB 580-368080/47
Matrix: Water
Analysis Batch: 368080

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/17/21 14:02	1
o-Xylene	ND		1.0	0.39	ug/L			09/17/21 14:02	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/17/21 14:02	1
Toluene	ND		1.0	0.39	ug/L			09/17/21 14:02	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/17/21 14:02	1
Trichloroethene	ND		1.0	0.26	ug/L			09/17/21 14:02	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/17/21 14:02	1
Xylenes, Total	ND		2.0	0.53	ug/L			09/17/21 14:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*09/17/21 14:02*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*09/17/21 14:02*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*09/17/21 14:02*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*09/17/21 14:02*	*1*

Lab Sample ID: LCS 580-368080/4
Matrix: Water
Analysis Batch: 368080

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	10.0	10.7		ug/L		107	80 - 121
1,1-Dichloroethene	10.0	10.0		ug/L		100	70 - 129
1,3-Butadiene	10.0	7.57		ug/L		76	24 - 150
Benzene	10.0	10.4		ug/L		104	80 - 122
Chloroform	10.0	10.9		ug/L		109	78 - 127
cis-1,2-Dichloroethene	10.0	9.75		ug/L		97	76 - 120
Ethylbenzene	10.0	10.1		ug/L		101	80 - 120
Hexane	10.0	9.89		ug/L		99	60 - 126
Methyl tert-butyl ether	10.0	10.5		ug/L		105	72 - 120
m-Xylene & p-Xylene	10.0	10.1		ug/L		101	80 - 120
o-Xylene	10.0	10.5		ug/L		105	80 - 120
Tetrachloroethene	10.0	10.1		ug/L		101	76 - 125
Toluene	10.0	10.4		ug/L		104	80 - 120
trans-1,2-Dichloroethene	10.0	9.89		ug/L		99	75 - 120
Trichloroethene	10.0	10.7		ug/L		107	80 - 125
Vinyl chloride	10.0	7.94		ug/L		79	31 - 150
Xylenes, Total	20.0	20.6		ug/L		103	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 120*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*
Dibromofluoromethane (Surr)	*95*		*80 - 120*
Toluene-d8 (Surr)	*110*		*80 - 120*

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

Lab Sample ID: LCSD 580-368080/5
Matrix: Water
Analysis Batch: 368080

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
1,1,2-Trichloroethane			10.0	10.5		ug/L		105	80 - 121	2	14
1,1-Dichloroethene			10.0	10.1		ug/L		101	70 - 129	1	23
1,3-Butadiene			10.0	8.45		ug/L		84	24 - 150	11	26
Benzene			10.0	9.79		ug/L		98	80 - 122	6	14
Chloroform			10.0	10.2		ug/L		102	78 - 127	7	14
cis-1,2-Dichloroethene			10.0	10.2		ug/L		102	76 - 120	5	20
Ethylbenzene			10.0	9.93		ug/L		99	80 - 120	2	14
Hexane			10.0	9.58		ug/L		96	60 - 126	3	19
Methyl tert-butyl ether			10.0	10.8		ug/L		108	72 - 120	3	18
m-Xylene & p-Xylene			10.0	9.73		ug/L		97	80 - 120	4	14
o-Xylene			10.0	10.6		ug/L		106	80 - 120	1	16
Tetrachloroethene			10.0	10.5		ug/L		105	76 - 125	4	13
Toluene			10.0	9.75		ug/L		97	80 - 120	6	13
trans-1,2-Dichloroethene			10.0	10.1		ug/L		101	75 - 120	2	21
Trichloroethene			10.0	9.88		ug/L		99	80 - 125	8	13
Vinyl chloride			10.0	8.22		ug/L		82	31 - 150	3	26
Xylenes, Total			20.0	20.3		ug/L		102	80 - 120	1	16

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*

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

Lab Sample ID: MB 580-367975/1-A
Matrix: Water
Analysis Batch: 368117

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 367975

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.10	0.031	ug/L		09/16/21 10:32	09/17/21 13:38	1
2-Methylnaphthalene	ND		0.20	0.039	ug/L		09/16/21 10:32	09/17/21 13:38	1
1-Methylnaphthalene	ND		0.10	0.019	ug/L		09/16/21 10:32	09/17/21 13:38	1
Acenaphthylene	ND		0.050	0.0090	ug/L		09/16/21 10:32	09/17/21 13:38	1
Acenaphthene	ND		0.10	0.014	ug/L		09/16/21 10:32	09/17/21 13:38	1
Fluorene	ND		0.10	0.017	ug/L		09/16/21 10:32	09/17/21 13:38	1
Phenanthrene	ND		0.10	0.031	ug/L		09/16/21 10:32	09/17/21 13:38	1
Anthracene	ND		0.10	0.022	ug/L		09/16/21 10:32	09/17/21 13:38	1
Fluoranthene	ND		0.20	0.018	ug/L		09/16/21 10:32	09/17/21 13:38	1
Pyrene	ND		0.10	0.033	ug/L		09/16/21 10:32	09/17/21 13:38	1
Benzo[a]anthracene	ND		0.050	0.014	ug/L		09/16/21 10:32	09/17/21 13:38	1
Chrysene	ND		0.10	0.016	ug/L		09/16/21 10:32	09/17/21 13:38	1
Benzo[b]fluoranthene	ND		0.050	0.011	ug/L		09/16/21 10:32	09/17/21 13:38	1
Benzo[k]fluoranthene	ND		0.050	0.012	ug/L		09/16/21 10:32	09/17/21 13:38	1
Benzo[a]pyrene	ND		0.10	0.011	ug/L		09/16/21 10:32	09/17/21 13:38	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.014	ug/L		09/16/21 10:32	09/17/21 13:38	1
Dibenz(a,h)anthracene	ND		0.10	0.015	ug/L		09/16/21 10:32	09/17/21 13:38	1

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

Lab Sample ID: MB 580-367975/1-A
Matrix: Water
Analysis Batch: 368117

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 367975

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	ND		0.050	0.012	ug/L		09/16/21 10:32	09/17/21 13:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*103*		*29 - 150*	*09/16/21 10:32*	*09/17/21 13:38*	*1*

Lab Sample ID: LCS 580-367975/2-A
Matrix: Water
Analysis Batch: 368117

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 367975

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	4.00	2.65		ug/L		66	34 - 120
2-Methylnaphthalene	4.00	2.65		ug/L		66	33 - 120
1-Methylnaphthalene	4.00	2.59		ug/L		65	29 - 120
Acenaphthylene	4.00	2.83		ug/L		71	38 - 120
Acenaphthene	4.00	2.66		ug/L		66	33 - 120
Fluorene	4.00	2.19		ug/L		55	39 - 120
Phenanthrene	4.00	2.86		ug/L		72	46 - 120
Anthracene	4.00	3.01		ug/L		75	41 - 120
Fluoranthene	4.00	3.12		ug/L		78	51 - 125
Pyrene	4.00	3.09		ug/L		77	51 - 125
Benzo[a]anthracene	4.00	3.37		ug/L		84	55 - 123
Chrysene	4.00	3.33		ug/L		83	47 - 120
Benzo[b]fluoranthene	4.00	3.12		ug/L		78	43 - 120
Benzo[k]fluoranthene	4.00	3.04		ug/L		76	41 - 121
Benzo[a]pyrene	4.00	3.10		ug/L		77	51 - 120
Indeno[1,2,3-cd]pyrene	4.00	3.34		ug/L		84	45 - 123
Dibenz(a,h)anthracene	4.00	3.56		ug/L		89	54 - 123
Benzo[g,h,i]perylene	4.00	3.37		ug/L		84	45 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*90*		*29 - 150*

Lab Sample ID: LCSD 580-367975/3-A
Matrix: Water
Analysis Batch: 368117

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 367975

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	4.00	2.68		ug/L		67	34 - 120	1	35
2-Methylnaphthalene	4.00	2.71		ug/L		68	33 - 120	2	35
1-Methylnaphthalene	4.00	2.63		ug/L		66	29 - 120	1	35
Acenaphthylene	4.00	2.96		ug/L		74	38 - 120	5	35
Acenaphthene	4.00	2.79		ug/L		70	33 - 120	5	35
Fluorene	4.00	2.27		ug/L		57	39 - 120	4	35
Phenanthrene	4.00	2.75		ug/L		69	46 - 120	4	32
Anthracene	4.00	2.90		ug/L		73	41 - 120	4	29
Fluoranthene	4.00	2.86		ug/L		72	51 - 125	8	31
Pyrene	4.00	2.83		ug/L		71	51 - 125	9	30
Benzo[a]anthracene	4.00	3.09		ug/L		77	55 - 123	9	31

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

Lab Sample ID: LCSD 580-367975/3-A
Matrix: Water
Analysis Batch: 368117

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 367975

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chrysene			4.00	3.13		ug/L		78	47 - 120	6	30
Benzo[b]fluoranthene			4.00	2.83		ug/L		71	43 - 120	10	35
Benzo[k]fluoranthene			4.00	2.83		ug/L		71	41 - 121	7	35
Benzo[a]pyrene			4.00	2.84		ug/L		71	51 - 120	9	31
Indeno[1,2,3-cd]pyrene			4.00	3.02		ug/L		76	45 - 123	10	35
Dibenz(a,h)anthracene			4.00	3.27		ug/L		82	54 - 123	9	35
Benzo[g,h,i]perylene			4.00	3.08		ug/L		77	45 - 120	9	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Terphenyl-d14	*100*		*29 - 150*

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

Lab Sample ID: MB 580-368168/5
Matrix: Water
Analysis Batch: 368168

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		250	100	ug/L			09/17/21 22:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*50 - 150*		*09/17/21 22:45*	*1*

Lab Sample ID: LCS 580-368168/3
Matrix: Water
Analysis Batch: 368168

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline			1000	836		ug/L		84	79 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*50 - 150*

Lab Sample ID: LCSD 580-368168/4
Matrix: Water
Analysis Batch: 368168

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			1000	824		ug/L		82	79 - 120	1	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*50 - 150*

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

Lab Sample ID: MB 580-368748/1-A
Matrix: Water
Analysis Batch: 368869

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 368748

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		110	65	ug/L		09/24/21 10:09	09/27/21 12:21	1
Motor Oil (>C24-C36)	ND		350	96	ug/L		09/24/21 10:09	09/27/21 12:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*67*		*50 - 150*	*09/24/21 10:09*	*09/27/21 12:21*	*1*

Lab Sample ID: LCS 580-368748/2-A
Matrix: Water
Analysis Batch: 368869

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 368748

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
#2 Diesel (C10-C24)	2000	1710		ug/L		85	50 - 120
Motor Oil (>C24-C36)	2000	1990		ug/L		99	64 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*87*		*50 - 150*

Lab Sample ID: LCSD 580-368748/3-A
Matrix: Water
Analysis Batch: 368869

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 368748

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)	2000	2050		ug/L		103	50 - 120	18	26
Motor Oil (>C24-C36)	2000	2290		ug/L		114	64 - 120	14	24

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*97*		*50 - 150*

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 580-368844/24-A
Matrix: Water
Analysis Batch: 368980

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 368844

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.40	0.040	ug/L		09/24/21 20:03	09/27/21 23:10	1

Lab Sample ID: LCS 580-368844/25-A
Matrix: Water
Analysis Batch: 368980

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 368844

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	1000	950		ug/L		95	80 - 120

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

Lab Sample ID: LCSD 580-368844/26-A
Matrix: Water
Analysis Batch: 368980

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 368844

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead			1000	950		ug/L		95	80 - 120	0	20

Lab Sample ID: 580-105873-1 MS
Matrix: Water
Analysis Batch: 368980

Client Sample ID: GWM-1_20210913
Prep Type: Total Recoverable
Prep Batch: 368844

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead	3.2		1000	995		ug/L		99	80 - 120		

Lab Sample ID: 580-105873-1 MSD
Matrix: Water
Analysis Batch: 368980

Client Sample ID: GWM-1_20210913
Prep Type: Total Recoverable
Prep Batch: 368844

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	3.2		1000	1000		ug/L		100	80 - 120	1	20

Lab Sample ID: 580-105873-1 DU
Matrix: Water
Analysis Batch: 368980

Client Sample ID: GWM-1_20210913
Prep Type: Total Recoverable
Prep Batch: 368844

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	3.2		3.08		ug/L		3	20

Lab Sample ID: MB 580-368338/14-B
Matrix: Water
Analysis Batch: 368532

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 368484

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.40	0.040	ug/L		09/21/21 18:14	09/22/21 09:40	1

Lab Sample ID: LCS 580-368338/15-B
Matrix: Water
Analysis Batch: 368532

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 368484

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

Lab Sample ID: LCSD 580-368338/16-B
Matrix: Water
Analysis Batch: 368532

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved
Prep Batch: 368484

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead			1000	991		ug/L		99	80 - 120	2	20

GC/MS VOA

Analysis Batch: 368043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-105873-1	GWM-1_20210913	Total/NA	Water	8260D	
580-105873-2	MW-3_20210913	Total/NA	Water	8260D	
MB 580-368043/13	Method Blank	Total/NA	Water	8260D	
LCS 580-368043/10	Lab Control Sample	Total/NA	Water	8260D	
LCSD 580-368043/11	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 368080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-105873-3	MW-9_20210913	Total/NA	Water	8260D	
580-105873-4	MW-11_20210913	Total/NA	Water	8260D	
580-105873-5	MW-12_20210913	Total/NA	Water	8260D	
580-105873-6	Trip Blank_20210913	Total/NA	Water	8260D	
580-105873-7	MW-6_20210913	Total/NA	Water	8260D	
MB 580-368080/47	Method Blank	Total/NA	Water	8260D	
LCS 580-368080/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 580-368080/5	Lab Control Sample Dup	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 367975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-105873-1	GWM-1_20210913	Total/NA	Water	3510C	
580-105873-2	MW-3_20210913	Total/NA	Water	3510C	
580-105873-3	MW-9_20210913	Total/NA	Water	3510C	
580-105873-4	MW-11_20210913	Total/NA	Water	3510C	
580-105873-5	MW-12_20210913	Total/NA	Water	3510C	
580-105873-7	MW-6_20210913	Total/NA	Water	3510C	
MB 580-367975/1-A	Method Blank	Total/NA	Water	3510C	
LCS 580-367975/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 580-367975/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 368117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-105873-1	GWM-1_20210913	Total/NA	Water	8270E SIM	367975
580-105873-2	MW-3_20210913	Total/NA	Water	8270E SIM	367975
580-105873-3	MW-9_20210913	Total/NA	Water	8270E SIM	367975
580-105873-4	MW-11_20210913	Total/NA	Water	8270E SIM	367975
580-105873-5	MW-12_20210913	Total/NA	Water	8270E SIM	367975
580-105873-7	MW-6_20210913	Total/NA	Water	8270E SIM	367975
MB 580-367975/1-A	Method Blank	Total/NA	Water	8270E SIM	367975
LCS 580-367975/2-A	Lab Control Sample	Total/NA	Water	8270E SIM	367975
LCSD 580-367975/3-A	Lab Control Sample Dup	Total/NA	Water	8270E SIM	367975

GC VOA

Analysis Batch: 368168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-105873-1	GWM-1_20210913	Total/NA	Water	NWTPH-Gx	
580-105873-2	MW-3_20210913	Total/NA	Water	NWTPH-Gx	
580-105873-3	MW-9_20210913	Total/NA	Water	NWTPH-Gx	
580-105873-4	MW-11_20210913	Total/NA	Water	NWTPH-Gx	
580-105873-5	MW-12_20210913	Total/NA	Water	NWTPH-Gx	

GC VOA (Continued)

Analysis Batch: 368168 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-105873-6	Trip Blank_20210913	Total/NA	Water	NWTPH-Gx	
580-105873-7	MW-6_20210913	Total/NA	Water	NWTPH-Gx	
MB 580-368168/5	Method Blank	Total/NA	Water	NWTPH-Gx	
LCS 580-368168/3	Lab Control Sample	Total/NA	Water	NWTPH-Gx	
LCSD 580-368168/4	Lab Control Sample Dup	Total/NA	Water	NWTPH-Gx	

GC Semi VOA

Prep Batch: 368748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-105873-1	GWM-1_20210913	Total/NA	Water	3510C	
580-105873-2	MW-3_20210913	Total/NA	Water	3510C	
580-105873-3	MW-9_20210913	Total/NA	Water	3510C	
580-105873-4	MW-11_20210913	Total/NA	Water	3510C	
580-105873-5	MW-12_20210913	Total/NA	Water	3510C	
580-105873-7	MW-6_20210913	Total/NA	Water	3510C	
MB 580-368748/1-A	Method Blank	Total/NA	Water	3510C	
LCS 580-368748/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 580-368748/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 368869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-105873-1	GWM-1_20210913	Total/NA	Water	NWTPH-Dx	368748
580-105873-2	MW-3_20210913	Total/NA	Water	NWTPH-Dx	368748
580-105873-3	MW-9_20210913	Total/NA	Water	NWTPH-Dx	368748
580-105873-4	MW-11_20210913	Total/NA	Water	NWTPH-Dx	368748
580-105873-5	MW-12_20210913	Total/NA	Water	NWTPH-Dx	368748
580-105873-7	MW-6_20210913	Total/NA	Water	NWTPH-Dx	368748
MB 580-368748/1-A	Method Blank	Total/NA	Water	NWTPH-Dx	368748
LCS 580-368748/2-A	Lab Control Sample	Total/NA	Water	NWTPH-Dx	368748
LCSD 580-368748/3-A	Lab Control Sample Dup	Total/NA	Water	NWTPH-Dx	368748

Metals

Filtration Batch: 368338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-105873-1	GWM-1_20210913	Dissolved	Water	FILTRATION	
580-105873-2	MW-3_20210913	Dissolved	Water	FILTRATION	
580-105873-3	MW-9_20210913	Dissolved	Water	FILTRATION	
580-105873-4	MW-11_20210913	Dissolved	Water	FILTRATION	
580-105873-5	MW-12_20210913	Dissolved	Water	FILTRATION	
580-105873-7	MW-6_20210913	Dissolved	Water	FILTRATION	
MB 580-368338/14-B	Method Blank	Dissolved	Water	FILTRATION	
LCS 580-368338/15-B	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 580-368338/16-B	Lab Control Sample Dup	Dissolved	Water	FILTRATION	

Prep Batch: 368484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-105873-1	GWM-1_20210913	Dissolved	Water	3005A	368338
580-105873-2	MW-3_20210913	Dissolved	Water	3005A	368338
580-105873-3	MW-9_20210913	Dissolved	Water	3005A	368338
580-105873-4	MW-11_20210913	Dissolved	Water	3005A	368338

Metals (Continued)

Prep Batch: 368484 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-105873-5	MW-12_20210913	Dissolved	Water	3005A	368338
580-105873-7	MW-6_20210913	Dissolved	Water	3005A	368338
MB 580-368338/14-B	Method Blank	Dissolved	Water	3005A	368338
LCS 580-368338/15-B	Lab Control Sample	Dissolved	Water	3005A	368338
LCSD 580-368338/16-B	Lab Control Sample Dup	Dissolved	Water	3005A	368338

Analysis Batch: 368532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 580-368338/14-B	Method Blank	Dissolved	Water	6020B	368484
LCS 580-368338/15-B	Lab Control Sample	Dissolved	Water	6020B	368484
LCSD 580-368338/16-B	Lab Control Sample Dup	Dissolved	Water	6020B	368484

Analysis Batch: 368612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-105873-1	GWM-1_20210913	Dissolved	Water	6020B	368484
580-105873-2	MW-3_20210913	Dissolved	Water	6020B	368484
580-105873-3	MW-9_20210913	Dissolved	Water	6020B	368484
580-105873-4	MW-11_20210913	Dissolved	Water	6020B	368484
580-105873-5	MW-12_20210913	Dissolved	Water	6020B	368484
580-105873-7	MW-6_20210913	Dissolved	Water	6020B	368484

Prep Batch: 368844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-105873-1	GWM-1_20210913	Total Recoverable	Water	3005A	
580-105873-2	MW-3_20210913	Total Recoverable	Water	3005A	
580-105873-3	MW-9_20210913	Total Recoverable	Water	3005A	
580-105873-4	MW-11_20210913	Total Recoverable	Water	3005A	
580-105873-5	MW-12_20210913	Total Recoverable	Water	3005A	
580-105873-7	MW-6_20210913	Total Recoverable	Water	3005A	
MB 580-368844/24-A	Method Blank	Total Recoverable	Water	3005A	
LCS 580-368844/25-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 580-368844/26-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	
580-105873-1 MS	GWM-1_20210913	Total Recoverable	Water	3005A	
580-105873-1 MSD	GWM-1_20210913	Total Recoverable	Water	3005A	
580-105873-1 DU	GWM-1_20210913	Total Recoverable	Water	3005A	

Analysis Batch: 368980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-105873-1	GWM-1_20210913	Total Recoverable	Water	6020B	368844
580-105873-2	MW-3_20210913	Total Recoverable	Water	6020B	368844
580-105873-3	MW-9_20210913	Total Recoverable	Water	6020B	368844
580-105873-4	MW-11_20210913	Total Recoverable	Water	6020B	368844
580-105873-5	MW-12_20210913	Total Recoverable	Water	6020B	368844
580-105873-7	MW-6_20210913	Total Recoverable	Water	6020B	368844
MB 580-368844/24-A	Method Blank	Total Recoverable	Water	6020B	368844
LCS 580-368844/25-A	Lab Control Sample	Total Recoverable	Water	6020B	368844
LCSD 580-368844/26-A	Lab Control Sample Dup	Total Recoverable	Water	6020B	368844
580-105873-1 MS	GWM-1_20210913	Total Recoverable	Water	6020B	368844
580-105873-1 MSD	GWM-1_20210913	Total Recoverable	Water	6020B	368844
580-105873-1 DU	GWM-1_20210913	Total Recoverable	Water	6020B	368844

Lab Chronicle

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

Job ID: 580-105873-1

Client Sample ID: GWM-1_20210913

Lab Sample ID: 580-105873-1

Date Collected: 09/13/21 14:45

Matrix: Water

Date Received: 09/15/21 11:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	368043	09/17/21 01:41	B1M	FGS SEA
Total/NA	Prep	3510C			367975	09/16/21 10:32	JHR	FGS SEA
Total/NA	Analysis	8270E SIM		1	368117	09/17/21 17:44	TL1	FGS SEA
Total/NA	Analysis	NWTPH-Gx		1	368168	09/18/21 02:00	JBT	FGS SEA
Total/NA	Prep	3510C			368748	09/24/21 10:09	BJM	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	368869	09/27/21 13:22	ADB	FGS SEA
Dissolved	Filtration	FILTRATION			368338	09/20/21 16:34	C1K	FGS SEA
Dissolved	Prep	3005A			368484	09/21/21 18:11	TMH	FGS SEA
Dissolved	Analysis	6020B		5	368612	09/22/21 11:50	FCW	FGS SEA
Total Recoverable	Prep	3005A			368844	09/24/21 20:03	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	368980	09/27/21 23:18	FCW	FGS SEA

Client Sample ID: MW-3_20210913

Lab Sample ID: 580-105873-2

Date Collected: 09/13/21 10:50

Matrix: Water

Date Received: 09/15/21 11:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	368043	09/17/21 02:06	B1M	FGS SEA
Total/NA	Prep	3510C			367975	09/16/21 10:32	JHR	FGS SEA
Total/NA	Analysis	8270E SIM		1	368117	09/17/21 18:06	TL1	FGS SEA
Total/NA	Analysis	NWTPH-Gx		1	368168	09/18/21 02:24	JBT	FGS SEA
Total/NA	Prep	3510C			368748	09/24/21 10:09	BJM	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	368869	09/27/21 13:42	ADB	FGS SEA
Dissolved	Filtration	FILTRATION			368338	09/20/21 16:34	C1K	FGS SEA
Dissolved	Prep	3005A			368484	09/21/21 18:11	TMH	FGS SEA
Dissolved	Analysis	6020B		5	368612	09/22/21 11:54	FCW	FGS SEA
Total Recoverable	Prep	3005A			368844	09/24/21 20:03	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	368980	09/27/21 23:14	FCW	FGS SEA

Client Sample ID: MW-9_20210913

Lab Sample ID: 580-105873-3

Date Collected: 09/13/21 15:30

Matrix: Water

Date Received: 09/15/21 11:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	368080	09/17/21 14:27	B1M	FGS SEA
Total/NA	Prep	3510C			367975	09/16/21 10:32	JHR	FGS SEA
Total/NA	Analysis	8270E SIM		1	368117	09/17/21 18:29	TL1	FGS SEA
Total/NA	Analysis	NWTPH-Gx		1	368168	09/18/21 03:13	JBT	FGS SEA
Total/NA	Prep	3510C			368748	09/24/21 10:09	BJM	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	368869	09/27/21 14:02	ADB	FGS SEA
Dissolved	Filtration	FILTRATION			368338	09/20/21 16:34	C1K	FGS SEA
Dissolved	Prep	3005A			368484	09/21/21 18:11	TMH	FGS SEA
Dissolved	Analysis	6020B		5	368612	09/22/21 11:57	FCW	FGS SEA
Total Recoverable	Prep	3005A			368844	09/24/21 20:03	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	368980	09/28/21 00:25	FCW	FGS SEA

Client Sample ID: MW-11_20210913

Lab Sample ID: 580-105873-4

Date Collected: 09/13/21 13:30

Matrix: Water

Date Received: 09/15/21 11:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	368080	09/17/21 14:52	B1M	FGS SEA
Total/NA	Prep	3510C			367975	09/16/21 10:32	JHR	FGS SEA
Total/NA	Analysis	8270E SIM		1	368117	09/17/21 18:51	TL1	FGS SEA
Total/NA	Analysis	NWTPH-Gx		1	368168	09/18/21 03:38	JBT	FGS SEA
Total/NA	Prep	3510C			368748	09/24/21 10:09	BJM	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	368869	09/27/21 14:22	ADB	FGS SEA
Dissolved	Filtration	FILTRATION			368338	09/20/21 16:34	C1K	FGS SEA
Dissolved	Prep	3005A			368484	09/21/21 18:11	TMH	FGS SEA
Dissolved	Analysis	6020B		5	368612	09/22/21 12:01	FCW	FGS SEA
Total Recoverable	Prep	3005A			368844	09/24/21 20:03	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	368980	09/28/21 00:29	FCW	FGS SEA

Client Sample ID: MW-12_20210913

Lab Sample ID: 580-105873-5

Date Collected: 09/13/21 14:15

Matrix: Water

Date Received: 09/15/21 11:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	368080	09/17/21 15:17	B1M	FGS SEA
Total/NA	Prep	3510C			367975	09/16/21 10:32	JHR	FGS SEA
Total/NA	Analysis	8270E SIM		1	368117	09/17/21 19:14	TL1	FGS SEA
Total/NA	Analysis	NWTPH-Gx		1	368168	09/18/21 04:02	JBT	FGS SEA
Total/NA	Prep	3510C			368748	09/24/21 10:09	BJM	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	368869	09/27/21 14:42	ADB	FGS SEA
Dissolved	Filtration	FILTRATION			368338	09/20/21 16:34	C1K	FGS SEA
Dissolved	Prep	3005A			368484	09/21/21 18:11	TMH	FGS SEA
Dissolved	Analysis	6020B		5	368612	09/22/21 12:05	FCW	FGS SEA
Total Recoverable	Prep	3005A			368844	09/24/21 20:03	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	368980	09/28/21 01:17	FCW	FGS SEA

Client Sample ID: Trip Blank_20210913

Lab Sample ID: 580-105873-6

Date Collected: 09/13/21 00:00

Matrix: Water

Date Received: 09/15/21 11:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	368080	09/17/21 15:42	B1M	FGS SEA
Total/NA	Analysis	NWTPH-Gx		1	368168	09/18/21 00:22	JBT	FGS SEA

Client Sample ID: MW-6_20210913

Lab Sample ID: 580-105873-7

Date Collected: 09/13/21 10:15

Matrix: Water

Date Received: 09/15/21 11:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	368080	09/17/21 16:07	B1M	FGS SEA
Total/NA	Prep	3510C			367975	09/16/21 10:32	JHR	FGS SEA
Total/NA	Analysis	8270E SIM		1	368117	09/17/21 19:36	TL1	FGS SEA

Lab Chronicle

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

Job ID: 580-105873-1

Client Sample ID: MW-6_20210913

Date Collected: 09/13/21 10:15
Date Received: 09/15/21 11:35

Lab Sample ID: 580-105873-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	NWTPH-Gx		1	368168	09/18/21 04:26	JBT	FGS SEA
Total/NA	Prep	3510C			368748	09/24/21 10:09	BJM	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	368869	09/27/21 15:02	ADB	FGS SEA
Dissolved	Filtration	FILTRATION			368338	09/20/21 16:34	C1K	FGS SEA
Dissolved	Prep	3005A			368484	09/21/21 18:11	TMH	FGS SEA
Dissolved	Analysis	6020B		5	368612	09/22/21 12:08	FCW	FGS SEA
Total Recoverable	Prep	3005A			368844	09/24/21 20:03	TMH	FGS SEA
Total Recoverable	Analysis	6020B		5	368980	09/28/21 00:10	FCW	FGS SEA

Laboratory References:

FGS SEA = Eurofins FGS, 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: 580-105873-1

Laboratory: Eurofins FGS, Seattle

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

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-22

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

Analysis Method	Prep Method	Matrix	Analyte
8260D		Water	1,3-Butadiene
8260D		Water	Hexane

Method Summary

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

Job ID: 580-105873-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	FGS SEA
8270E SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	FGS SEA
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC)	NWTPH	FGS SEA
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	FGS SEA
6020B	Metals (ICP/MS)	SW846	FGS SEA
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	FGS SEA
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	FGS SEA
5030B	Purge and Trap	SW846	FGS SEA
FILTRATION	Sample Filtration	None	FGS 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:

FGS SEA = Eurofins FGS, 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: 580-105873-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-105873-1	GWM-1_20210913	Water	09/13/21 14:45	09/15/21 11:35
580-105873-2	MW-3_20210913	Water	09/13/21 10:50	09/15/21 11:35
580-105873-3	MW-9_20210913	Water	09/13/21 15:30	09/15/21 11:35
580-105873-4	MW-11_20210913	Water	09/13/21 13:30	09/15/21 11:35
580-105873-5	MW-12_20210913	Water	09/13/21 14:15	09/15/21 11:35
580-105873-6	Trip Blank_20210913	Water	09/13/21 00:00	09/15/21 11:35
580-105873-7	MW-6_20210913	Water	09/13/21 10:15	09/15/21 11:35

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

BP Site Node Path: Former BP 11060 | Req Due Date (mm/dd/yy): Standard TAT | Rush TAT Yes ____ No X

BP/RM Facility No: Former BP Facility No. 11060 | Lab Work Order Number:

Lab Name: Test America	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:	
Lab PM: Elaine Walker	Lead Regulatory Agency: Washington State Department of Ecology	Address: 4006 148th Ave NE, Redmond, WA 98052	
Lab Phone: 253.248.4972	California Global ID No.: NA	Consultant/Contractor PM: Megan Richard	
Lab Shipping Accnt:	Enfos Proposal No: WR851166/00C22-0002	Phone: 425-498-7711 Email: Megan.Richard@anteagroup.us	
Lab Bottle Order No:	Accounting Mode: Provision __X__ OOC-BU _____ OOC-RM _____	Send/Submit EDD to: Megan.Richard@anteagroup.us	
Other Info: M.Elaine.Walker@Eurofinset.com	Stage 2_Select (20) Activity Additional Data Collection (100)	Invoice To: BP-RM _____ BP/ARC __X__	
BP/RM PM: Wade Melton			
PM Phone: 360-594-7978			
PM Email: wade.melton@bp.com			

Sample Details | **Requested Analyses** | **Report Type & QC Level**

Report Type & QC Level: Limited (Standard) Package _____ ; Limited Plus Package _____ ; Full Package _____

Lab No.	Sample Description	Date	Time	Field Matrix	Start Depth	End Depth	Depth Unit	Grab (G) or Composite (C)	Total Number of Containers	Filt	Pres	Analysis: BTEX by EPA 8260	MTBE by EPA 8260	NWTPH-Gx	NWTPH-Dx	Pb-T by EPA 6020	Pb-D by EPA 6020	EDB by EPA 8011	PAHs	Select VOCs by EPA 8260	Comments
	GWM-1_20210913	9/13/21	1445	W				G	10			X	X	X	X	X	X		X	X	
	~~MW-1~~			W				G				X	X	X	X	X	X		X	X	SH
	~~MW-2~~			W				G				X	X	X	X	X	X		X	X	SH
	MW-3_20210913	9/13/21	1050	W				G	10			X	X	X	X	X	X		X	X	
	~~MW-4~~			W				G				X	X	X	X	X	X		X	X	SH
	~~MW-5~~			W				G				X	X	X	X	X	X		X	X	SH
	~~MW-6~~			W				G				X	X	X	X	X	X		X	X	SH

Sampler's Name: Katelyn Younger, Samantha Hinze	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: Antea Group	Samantha Hinze/AG 9/15/21 1100		1010	DLX/Eurofins EFGS	10/10	9/15-21
Ship Method: Courier Ship Date: 9/15/21					+39/18/21 DW	1135 9-15-21 DW
Shipment Tracking No:						

Special Instructions (select VOCs by EPA 8260 analysis for the following): (1) 1-3-Butadiene (2) Chloroform (3) Ethanol (4) Hexane (5) Vinyl Chloride (6) 1,1-DCE (7) Cis-1,2-DCE (8) Trans-1,2 Dichloroethene (9) 1,1,2-trichloroethane (10) TCE (11) PCE

Therm. ID: A2 Cor: 0.2 ° Unc: 0.5 °'s In Pla
Cooler Dsc: LR
Packing: Bub
Cust. Seal: Yes ___ No ___
Blue Ice, Wet, Dry, None
FedEx: ___
UPS: ___
Lab Cour: ✓
Other: ___

Therm. ID: A2 Cor: -0.2 ° Unc: 0.1 ° Receipt: ___ °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No
Cooler Dsc: LB
Packing: Bub
Cust. Seal: Yes ___ No ___
Blue Ice, Wet, Dry, None
FedEx: ___
UPS: ___
Lab Cour: ✓
Other: ___

580-105873 Chain of Custody

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

BP Site Node Path: Former BP 11060 **Req Due Date (mm/dd/yy):** Standard TAT Rush TAT Yes _____ No X

BP/RM Facility No: Former BP Facility No. 11060 **Lab Work Order Number:**

Lab Name:	Test America	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:	
Lab PM:	Elaine Walker	Lead Regulatory Agency:	Washington State Department of Ecology	Address:	4006 148th Ave NE, Redmond, WA 98052
Lab Phone:	253.248.4972	California Global ID No.:	NA	Consultant/Contractor PM:	Megan Richard
Lab Shipping Accnt:		Enfos Proposal No:	WR851166/00C22-0002	Phone: 425-498-7711 Email:	Megan.Richard@anteagroup.us
Lab Bottle Order No:		Accounting Mode:	Provision __X___ OOC-BU _____ OOC-RM _____	Send/Submit EDD to:	Megan.Richard@anteagroup.us
Other Info:	M.Elaine.Walker@Eurofinset.com	Stage	2_Select (20) Activity Additional Data Collection (100)	Invoice To:	BP-RM _____ BP/ARC __X____
BP/RM PM:	Wade Melton				
PM Phone:	360--594-7978				
PM Email:	wade.melton@bp.com				

Report Type & QC Level

Limited (Standard) Package _____

Limited Plus Package _____

Full Package _____

Lab No.	Sample Description	Date	Time	Field Matrix	Start Depth	End Depth	Depth Unit	Grab (G) or Composite (C)	Total Number of Containers	Filt	Pres	Analysis	BTEX by EPA 8260	MTBE by EPA 8260	NWTPH-Gx	NWTPH-Dx	Pb-T by EPA 6020	Pb-D by EPA 6020	EDB by EPA 8011	PAHs	Select VOCs by EPA 8260	Comments
	MW-9_20210913	9/13/21	1530	W				G	10				X	X	X	X	X	X		X	X	
	MW-11_20210913	9/13/21	1330	W				G	10				X	X	X	X	X	X		X	X	
	MW-12_20210913	9/13/21	1415	W				G	10				X	X	X	X	X	X		X	X	
	~~Dup-1~~			~~W~~				~~G~~					~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		~~X~~	~~X~~	
	Trip Blank	9/13/21	0000	W				G	4				X		X							

SH SH SH

Sampler's Name:	Katelyn Sayers, Samantha Hinze	**Relinquished By / Affiliation**	**Date**	**Time**	**Accepted By / Affiliation**
Sampler's Company:	Antea Group	Samantha Hinze/AG	9/15/21	1010	D2X/Eurofins EFGS
Ship Method:	Courier Ship Date: 9/15/21				9/15/24 1135
Shipment Tracking No:					

Special Instructions (select VOCs by EPA 8260 analysis for the following): (1) 1-3-Butadiene (2) Chloroform (3) Ethanol (4) Hexane (5) Vinyl Chloride (6) 1,1-DCE (7) Cis-1,2-DCE (8) Trans-1,2 Dichloroethene (9) 1,1,2-trichloroethane (10) TCE (11) PCE

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

BP LaMP Soil/H2O COC July 2018

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

BP Site Node Path: Former BP 11060 | Req Due Date (mm/dd/yy): Standard TAT | Rush TAT Yes ____ No X

BP/RM Facility No: Former BP Facility No. 11060 | Lab Work Order Number:

Lab Name: Test America	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:	
Lab PM: Elaine Walker	Lead Regulatory Agency: Washington State Department of Ecology	Address: 4006 148th Ave NE, Redmond, WA 98052	
Lab Phone: 253.248.4972	California Global ID No.: NA	Consultant/Contractor PM: Megan Richard	
Lab Shipping Accnt:	Enfos Proposal No: WR851166/00C22-0002	Phone: 425-498-7711 Email: Megan.Richard@anteagroup.us	
Lab Bottle Order No:	Accounting Mode: Provision __X__ OOC-BU ____ OOC-RM ____	Send/Submit EDD to: Megan.Richard@anteagroup.us	
Other Info: M.Elaine.Walker@Eurofinset.com	Stage 2_Select (20) Activity Additional Data Collection (100)	Invoice To: BP-RM ____ BP/ARC __X__	
BP/RM PM: Wade Melton			
PM Phone: 360-594-7978			
PM Email: wade.melton@bp.com			

Report Type & QC Level: Limited (Standard) Package ____ Limited Plus Package ____ Full Package ____

Lab No.	Sample Description	Date	Time	Field Matrix	Start Depth	End Depth	Depth Unit	Grab (G) or Composite (C)	Total Number of Containers	Filt	Pres	Analysis	BTEX by EPA 8260	MTBE by EPA 8260	NWTPH-Gx	NWTPH-Dx	Pb-T by EPA 6020	Pb-D by EPA 6020	EDB by EPA 8011	PAHs	Select VOCs by EPA 8260	Comments
	GWM-1_20210913	9/13/21	1445	W				G	10				X	X	X	X	X	X		X	X	
	~~MW-1~~			W				G					X	X	X	X	X	X		X	X	SH
	~~MW-2~~			W				G					X	X	X	X	X	X		X	X	SH
	MW-3_20210913	9/13/21	1050	W				G	10				X	X	X	X	X	X		X	X	
	~~MW-4~~			W				G					X	X	X	X	X	X		X	X	SH
	~~MW-5~~			W				G					X	X	X	X	X	X		X	X	SH
	~~MW-6~~			W				G					X	X	X	X	X	X		X	X	SH

Sampler's Name: Katelyn Younger, Samantha Hintze	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: Antea Group	Samantha Hintze/AG	9/15/2021	1010	DLX/Eurofins	10/10	9/15-21
Ship Method: Courier Ship Date: 9/15/21				EFGS	+39/KL21 DW	XQ 1135 9-18-21 RW
Shipment Tracking No:						

Special Instructions (select VOCs by EPA 8260 analysis for the following): (1) 1-3-Butadiene (2) Chloroform (3) Ethanol (4) Hexane (5) Vinyl Chloride (6) 1,1-DCE (7) Cis-1,2-DCE (8) Trans-1,2 Dichloroethene (9) 1,1,2-trichloroethane (10) TCE (11) PCE

Therm. ID: A2 Cor: 0.2 ° Unc: 0.5 °s In Pla | Receipt: ____ °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted:

Cooler Dsc: LR
Packing: Bub
Cust. Seal: Yes ___ No ___
Blue Ice, Wet, Dry, None
FedEx: ____
UPS: ____
Lab Cour: ✓
Other: ____

Therm. ID: A2 Cor: -0.2 ° Unc: 0.1 °
Cooler Dsc: LB
Packing: Bub
Cust. Seal: Yes ___ No ___
Blue Ice, Wet, Dry, None
FedEx: ____
UPS: ____
Lab Cour: ✓
Other: ____

580-105873 Chain of Custody

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

Page 2 of 2

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:	Test America	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:	
Lab PM:	Elaine Walker	Lead Regulatory Agency:	Washington State Department of Ecology	Address:	4006 148th Ave NE, Redmond, WA 98052
Lab Phone:	253.248.4972	California Global ID No.:	NA	Consultant/Contractor PM:	Megan Richard
Lab Shipping Accnt:		Enfos Proposal No:	WR851166/00C22-0002	Phone: 425-498-7711 Email:	Megan.Richard@anteagroup.us
Lab Bottle Order No:		Accounting Mode:	Provision X OOC-BU ____ OOC-RM ____	Send/Submit EDD to:	Megan.Richard@anteagroup.us
Other Info:	M.Elaine.Walker@Eurofinset.com	Stage	2_Select (20) Activity Additional Data Collection (100)	Invoice To:	BP-RM ____ BP/ARC X
BP/RM PM:	Wade Melton				
PM Phone:	360--594-7978				
PM Email:	wade.melton@bp.com				

Report Type & QC Level

Limited (Standard) Package ____

Limited Plus Package ____

Full Package ____

Lab No.	Sample Description	Date	Time	Field Matrix	Start Depth	End Depth	Depth Unit	Grab (G) or Composite (C)	Total Number of Containers	Filt	Pres	Analysis	BTEX by EPA 8260	MTBE by EPA 8260	NWTPH-Gx	NWTPH-Dx	Pb-T by EPA 6020	Pb-D by EPA 6020	EDB by EPA 8011	PAHs	Select VOCs by EPA 8260	Comments
	MW-9_20210913	9/13/21	1530	W				G	10				X	X	X	X	X	X		X	X	
	MW-11_20210913	9/13/21	1330	W				G	10				X	X	X	X	X	X		X	X	
	MW-12_20210913	9/13/21	1415	W				G	10				X	X	X	X	X	X		X	X	
	~~Dup-1~~			~~W~~				~~G~~					~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		~~X~~	~~X~~	
	Trip Blank	9/13/21	0000	W				G	4				X		X							

SH SH SH

Sampler's Name:	Katelyn Yaeger, Samantha Hinze	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company:	Antea Group	Samantha Hinze/AG	9/15/21	1010	DLX/Eurofins EFGS	10/10 9/15/24	9-15-21 1135
Ship Method:	Courier	Ship Date: 9/15/21					
Shipment Tracking No:							

Special Instructions (select VOCs by EPA 8260 analysis for the following): (1) 1-3-Butadiene (2) Chloroform (3) Ethanol (4) Hexane (5) Vinyl Chloride (6) 1,1-DCE (7) Cis-1,2-DCE (8) Trans-1,2 Dichloroethene (9) 1,1,2-trichloroethane (10) TCE (11) PCE

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

BP LaMP Soil/H2O COC July 2018

9/15/2021

Login Container Summary Report

580-105873

9/29/2021

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container pH	Container Temp	Preservative Added (mls)	Lot #
GWM-1_20210913	580-105873-G-1	Amber Glass 250mL - hydrochloric acid	1.5			
GWM-1_20210913	580-105873-H-1	Amber Glass 250mL - hydrochloric acid	1.5			
GWM-1_20210913	580-105873-K-1	Plastic 250ml - with Nitric Acid	1.5			
MW-3_20210913	580-105873-G-2	Amber Glass 250mL - hydrochloric acid	1.5			
MW-3_20210913	580-105873-H-2	Amber Glass 250mL - hydrochloric acid	1.5			
MW-3_20210913	580-105873-K-2	Plastic 250ml - with Nitric Acid	2.0			
MW-9_20210913	580-105873-G-3	Amber Glass 250mL - hydrochloric acid	1.5			
MW-9_20210913	580-105873-H-3	Amber Glass 250mL - hydrochloric acid	1.5			
MW-9_20210913	580-105873-K-3	Plastic 250ml - with Nitric Acid	2.0			
MW-11_20210913	580-105873-G-4	Amber Glass 250mL - hydrochloric acid	1.5			
MW-11_20210913	580-105873-H-4	Amber Glass 250mL - hydrochloric acid	1.5			
MW-11_20210913	580-105873-K-4	Plastic 250ml - with Nitric Acid	1.5			
MW-12_20210913	580-105873-G-5	Amber Glass 250mL - hydrochloric acid	1.5			
MW-12_20210913	580-105873-H-5	Amber Glass 250mL - hydrochloric acid	1.5			
MW-12_20210913	580-105873-K-5	Plastic 250ml - with Nitric Acid	2.0			
MW-6_20210913	580-105873-G-7	Amber Glass 250mL - hydrochloric acid	2.0			
MW-6_20210913	580-105873-H-7	Amber Glass 250mL - hydrochloric acid	1.5			
MW-6_20210913	580-105873-K-7	Plastic 250ml - with Nitric Acid	2.0			

Login Sample Receipt Checklist

Client: Antea USA Inc.

Job Number: 580-105873-1

Login Number: 105873
List Number: 1
Creator: Presley, Kim A

List Source: Eurofins FGS, Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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 <6mm (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 FGS, Seattle Job No.: 580-105873-1

SDG No.:

Batch Number: 368043 Batch Start Date: 09/16/21 19:30 Batch Analyst: Mautz, Brady 1

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	5X SUR/IS 00003	VOAMasterMix 00072	VOASTDGASweek 00081
LCS 580-368043/10		8260D		5 mL	5 mL		1 uL	10 uL	10 uL
LCSD 580-368043/11		8260D		5 mL	5 mL		1 uL	10 uL	10 uL
MB 580-368043/13		8260D		5 mL	5 mL		1 uL		
580-105873-A-1	GWM-1_20210913	8260D	T	5 mL	5 mL	<2 SU	1 uL		
580-105873-A-2	MW-3_20210913	8260D	T	5 mL	5 mL	<2 SU	1 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 VOA BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-105873-1

SDG No.:

Batch Number: 368080 Batch Start Date: 09/17/21 10:53 Batch Analyst: Mautz, Brady 1

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	5X SUR/IS 00003	VOAMasterMix 00072	VOASTDGASweek 00081
LCS 580-368080/4		8260D		5 mL	5 mL		1 uL	10 uL	10 uL
LCSD 580-368080/5		8260D		5 mL	5 mL		1 uL	10 uL	10 uL
580-105873-A-3	MW-9_20210913	8260D	T	5 mL	5 mL	<2 SU	1 uL		
580-105873-A-4	MW-11_20210913	8260D	T	5 mL	5 mL	<2 SU	1 uL		
580-105873-A-5	MW-12_20210913	8260D	T	5 mL	5 mL	<2 SU	1 uL		
580-105873-A-6	Trip Blank 20210913	8260D	T	5 mL	5 mL	<2 SU	1 uL		
580-105873-A-7	MW-6_20210913	8260D	T	5 mL	5 mL	<2 SU	1 uL		
MB 580-368080/47		8260D		5 mL	5 mL		1 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 FGS, Seattle Job No.: 580-105873-1

SDG No.:

Batch Number: 367975 Batch Start Date: 09/16/21 10:32 Batch Analyst: Roberts, Jacob H

Batch Method: 3510C Batch End Date: 09/16/21 20:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 580-367975/1		3510C, 8270E SIM				250 mL	1 mL	7 SU	2 SU
LCS 580-367975/2		3510C, 8270E SIM				250 mL	1 mL	7 SU	2 SU
LCSD 580-367975/3		3510C, 8270E SIM				250 mL	1 mL	7 SU	2 SU
580-105873-I-1	GWM-1_20210913	3510C, 8270E SIM	T	411.93 g	167.99 g	243.9 mL	1 mL	7 SU	2 SU
580-105873-I-2	MW-3_20210913	3510C, 8270E SIM	T	414.29 g	168.27 g	246 mL	1 mL	7 SU	2 SU
580-105873-I-3	MW-9_20210913	3510C, 8270E SIM	T	406.87 g	164.85 g	242 mL	1 mL	7 SU	2 SU
580-105873-J-4	MW-11_20210913	3510C, 8270E SIM	T	407.6 g	167.67 g	239.9 mL	1 mL	7 SU	2 SU
580-105873-J-5	MW-12_20210913	3510C, 8270E SIM	T	414.16 g	168.6 g	245.6 mL	1 mL	7 SU	2 SU
580-105873-J-7	MW-6_20210913	3510C, 8270E SIM	T	389.68 g	166.61 g	223.1 mL	1 mL	7 SU	2 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	8270flspk 00287	8270waterSurr 00110			
MB 580-367975/1		3510C, 8270E SIM		n/a SU		100 uL			
LCS 580-367975/2		3510C, 8270E SIM		n/a SU	50 uL	100 uL			
LCSD 580-367975/3		3510C, 8270E SIM		n/a SU	50 uL	100 uL			
580-105873-I-1	GWM-1_20210913	3510C, 8270E SIM	T	n/a SU		100 uL			
580-105873-I-2	MW-3_20210913	3510C, 8270E SIM	T	n/a SU		100 uL			
580-105873-I-3	MW-9_20210913	3510C, 8270E SIM	T	n/a SU		100 uL			
580-105873-J-4	MW-11_20210913	3510C, 8270E SIM	T	n/a SU		100 uL			
580-105873-J-5	MW-12_20210913	3510C, 8270E SIM	T	n/a SU		100 uL			
580-105873-J-7	MW-6_20210913	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.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-105873-1

SDG No.:

Batch Number: 367975 Batch Start Date: 09/16/21 10:32 Batch Analyst: Roberts, Jacob H

Batch Method: 3510C Batch End Date: 09/16/21 20:00

Batch Notes	
Acid Used for pH Adjustment ID	2815022
Balance ID	SEA225
Batch Comment	Vialed by: JHR
Analyst ID - Concentration	JHR
Concentration 1 Corrected Temperature	70.3-75.3 Degrees C
Concentration 2 Corrected Temperature	19.4 Degrees C
Equipment ID - Concentration 1	SteamBath 1
Equipment ID - Concentration 2	TurboVap 5
Analyst ID - Extraction	JHR
Filter ID	2815023
Method/Fraction	3510C_LVI/ 8270E SIM
Na2SO4 ID	2900799
pH Indicator ID	6911002/HC630494
Pipette/Syringe/Dispenser ID	MP4/E3/E4
Prep Solvent ID	2842479
Prep Solvent Volume Used	150 mL
Analyst ID - Spike Analyst	JHR
Analyst ID - Spike Witness Analyst	AP
Sufficient Volume for Batch QC	no
Thermometer ID - Concentration 1	661200
Thermometer ID - Concentration 2	DIGITALREADOUT
Concentration 1 Uncorrected Temperature	70.0-75.0 Degrees C
Concentration 2 Uncorrected Temperature	21.0 Degrees C
Vial Lot Number	24162054
Reagent Water ID	DI

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 VOA BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-105873-1

SDG No.:

Batch Number: 368168 Batch Start Date: 09/17/21 21:56 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	BFBGRO ARCHON 00046	GRO_LCS 00067	
LCS 580-368168/3		NWTPH-Gx		5 mL	5 mL		1 uL	25 uL	
LCSD 580-368168/4		NWTPH-Gx		5 mL	5 mL		1 uL	25 uL	
MB 580-368168/5		NWTPH-Gx		5 mL	5 mL		1 uL		
580-105873-B-6	Trip Blank 20210913	NWTPH-Gx	T	5 mL	5 mL	<2 SU	1 uL		
580-105873-B-1	GWM-1_20210913	NWTPH-Gx	T	5 mL	5 mL	<2 SU	1 uL		
580-105873-B-2	MW-3_20210913	NWTPH-Gx	T	5 mL	5 mL	<2 SU	1 uL		
580-105873-B-3	MW-9_20210913	NWTPH-Gx	T	5 mL	5 mL	<2 SU	1 uL		
580-105873-B-4	MW-11_20210913	NWTPH-Gx	T	5 mL	5 mL	<2 SU	1 uL		
580-105873-B-5	MW-12_20210913	NWTPH-Gx	T	5 mL	5 mL	<2 SU	1 uL		
580-105873-C-7	MW-6_20210913	NWTPH-Gx	T	5 mL	5 mL	<2 SU	1 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 SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-105873-1

SDG No.:

Batch Number: 368748 Batch Start Date: 09/24/21 10:09 Batch Analyst: Maertens, Blair J

Batch Method: 3510C Batch End Date: 09/24/21 18:22

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 580-368748/1		3510C, NWTPH-Dx				250 mL	1 mL	7 SU	2 SU
LCS 580-368748/2		3510C, NWTPH-Dx				250 mL	1 mL	7 SU	2 SU
LCSD 580-368748/3		3510C, NWTPH-Dx				250 mL	1 mL	7 SU	2 SU
580-105873-H-1	GWM-1_20210913	3510C, NWTPH-Dx	T	00414.67 g	00167.52 g	247.2 mL	1 mL	2 SU	2 SU
580-105873-H-2	MW-3_20210913	3510C, NWTPH-Dx	T	00416.50 g	00166.89 g	249.6 mL	1 mL	2 SU	2 SU
580-105873-H-3	MW-9_20210913	3510C, NWTPH-Dx	T	00408.78 g	00166.78 g	242 mL	1 mL	2 SU	2 SU
580-105873-H-4	MW-11_20210913	3510C, NWTPH-Dx	T	00410.08 g	00165.82 g	244.3 mL	1 mL	2 SU	2 SU
580-105873-H-5	MW-12_20210913	3510C, NWTPH-Dx	T	00408.83 g	00165.94 g	242.9 mL	1 mL	2 SU	2 SU
580-105873-G-7	MW-6_20210913	3510C, NWTPH-Dx	T	00413.61 g	00167.02 g	246.6 mL	1 mL	2 SU	2 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	TPH_Water_Spk 00028	TPH_WaterSurr 00070			
MB 580-368748/1		3510C, NWTPH-Dx		n/a SU		100 uL			
LCS 580-368748/2		3510C, NWTPH-Dx		n/a SU	100 uL	100 uL			
LCSD 580-368748/3		3510C, NWTPH-Dx		n/a SU	100 uL	100 uL			
580-105873-H-1	GWM-1_20210913	3510C, NWTPH-Dx	T	n/a SU		100 uL			
580-105873-H-2	MW-3_20210913	3510C, NWTPH-Dx	T	n/a SU		100 uL			
580-105873-H-3	MW-9_20210913	3510C, NWTPH-Dx	T	n/a SU		100 uL			
580-105873-H-4	MW-11_20210913	3510C, NWTPH-Dx	T	n/a SU		100 uL			
580-105873-H-5	MW-12_20210913	3510C, NWTPH-Dx	T	n/a SU		100 uL			
580-105873-G-7	MW-6_20210913	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.

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-105873-1

SDG No.:

Batch Number: 368748 Batch Start Date: 09/24/21 10:09 Batch Analyst: Maertens, Blair J

Batch Method: 3510C Batch End Date: 09/24/21 18:22

Batch Notes	
Acid Used for pH Adjustment ID	2815022
Balance ID	SEA225
Batch Comment	Vialed By: BM
Analyst ID - Concentration	BM
Concentration 1 Corrected Temperature	70.3-75.3 Degrees C
Concentration 2 Corrected Temperature	18.4 Degrees C
Equipment ID - Concentration 1	SteamBath 1
Equipment ID - Concentration 2	TurboVap m5
Analyst ID - Extraction	BM
Filter ID	2815023
Method/Fraction	3510C_LVI/NWTPH_Dx
Na2SO4 ID	288067
pH Indicator ID	6911002/6007004
Pipette/Syringe/Dispenser ID	MP4
Prep Solvent ID	2959739
Prep Solvent Volume Used	100 mL
Analyst ID - Spike Analyst	BM
Analyst ID - Spike Witness Analyst	AP
Sufficient Volume for Batch QC	No
Thermometer ID - Concentration 1	61013-040-1
Thermometer ID - Concentration 2	DIGITALREADOUT
Concentration 1 Uncorrected Temperature	70-75 Degrees C
Concentration 2 Uncorrected Temperature	20 Degrees C
Vial Lot Number	24162054
Reagent Water ID	DI

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.

METALS BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-105873-1

SDG No.:

Batch Number: 368338 Batch Start Date: 09/20/21 16:34 Batch Analyst: Knight, Christine 1

Batch Method: FILTRATION Batch End Date: 09/20/21 17:35

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount				
580-105873-L-1	GWM-1_20210913	FILTRATION, 3005A, 6020B	D	250 mL	250 mL				
580-105873-L-2	MW-3_20210913	FILTRATION, 3005A, 6020B	D	250 mL	250 mL				
580-105873-L-3	MW-9_20210913	FILTRATION, 3005A, 6020B	D	250 mL	250 mL				
580-105873-L-4	MW-11_20210913	FILTRATION, 3005A, 6020B	D	250 mL	250 mL				
580-105873-L-5	MW-12_20210913	FILTRATION, 3005A, 6020B	D	250 mL	250 mL				
580-105873-L-7	MW-6_20210913	FILTRATION, 3005A, 6020B	D	250 mL	250 mL				
MB 580-368338/14		FILTRATION, 3005A, 6020B		100 mL	100 mL				
LCS 580-368338/15		FILTRATION, 3005A, 6020B		100 mL	100 mL				
LCSD 580-368338/16		FILTRATION, 3005A, 6020B		100 mL	100 mL				

Batch Notes	
Filter ID	lot# 1315956
Nitric Acid ID	2954800

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.

METALS BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-105873-1

SDG No.:

Batch Number: 368484 Batch Start Date: 09/21/21 18:11 Batch Analyst: Hua, Tammy M

Batch Method: 3005A Batch End Date: 09/21/21 23:31

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ICP CAL 1 00012	ICP CAL 2 00011	MET Spike 3C 00032	
580-105873-L-1-A	GWM-1_20210913	3005A, 6020B	D	50 mL	50 mL				
580-105873-L-2-A	MW-3_20210913	3005A, 6020B	D	50 mL	50 mL				
580-105873-L-3-A	MW-9_20210913	3005A, 6020B	D	50 mL	50 mL				
580-105873-L-4-A	MW-11_20210913	3005A, 6020B	D	50 mL	50 mL				
580-105873-L-5-A	MW-12_20210913	3005A, 6020B	D	50 mL	50 mL				
580-105873-L-7-A	MW-6_20210913	3005A, 6020B	D	50 mL	50 mL				
MB 580-368338/14-A		3005A, 6020B		50 mL	50 mL				
LCS 580-368338/15-A		3005A, 6020B		50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
LCSD 580-368338/16-A		3005A, 6020B		50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	

Batch Notes	
Temperature - Corrected - End	91.4 Degrees C
Temperature - Corrected - Start	91.4 Degrees C
Digestion End Time	09/21/2021 23:31
Digestion Start Time	09/21/2021 19:31
Digestion Unit ID	BLOCK a
Hydrochloric Acid ID	2954789
Nitric Acid ID	2954797
Pipette/Syringe/Dispenser ID	METALS-PREP-2
Analyst ID - Spike Analyst	TH
Sufficient Volume for Batch QC	yes
Thermometer Location ID	A13
Thermometer ID	1108436
Digestion Tube/Cup ID	2953186
Temperature - Uncorrected - End	92.0 Degrees C
Temperature - Uncorrected - Start	92.0 Degrees C

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.

METALS BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-105873-1

SDG No.:

Batch Number: 368484 Batch Start Date: 09/21/21 18:11 Batch Analyst: Hua, Tammy M

Batch Method: 3005A Batch End Date: 09/21/21 23:31

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.

METALS BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-105873-1

SDG No.:

Batch Number: 368844 Batch Start Date: 09/24/21 20:03 Batch Analyst: Hua, Tammy M

Batch Method: 3005A Batch End Date: 09/25/21 00:32

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ICP CAL 1 00012	ICP CAL 2 00011	MET Spike 3C 00032	
580-105873-K-1	GWM-1_20210913	3005A, 6020B	R	50 mL	50 mL				
580-105873-K-1 DU	GWM-1_20210913	3005A, 6020B	R	50 mL	50 mL				
580-105873-K-1 MS	GWM-1_20210913	3005A, 6020B	R	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
580-105873-K-1 MSD	GWM-1_20210913	3005A, 6020B	R	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
580-105873-K-2	MW-3_20210913	3005A, 6020B	R	50 mL	50 mL				
580-105873-K-3	MW-9_20210913	3005A, 6020B	R	50 mL	50 mL				
580-105873-K-4	MW-11_20210913	3005A, 6020B	R	50 mL	50 mL				
580-105873-K-5	MW-12_20210913	3005A, 6020B	R	50 mL	50 mL				
580-105873-K-7	MW-6_20210913	3005A, 6020B	R	50 mL	50 mL				
MB 580-368844/24		3005A, 6020B		50 mL	50 mL				
LCS 580-368844/25		3005A, 6020B		50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
LCSD 580-368844/26		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.

METALS BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-105873-1

SDG No.:

Batch Number: 368844 Batch Start Date: 09/24/21 20:03 Batch Analyst: Hua, Tammy M

Batch Method: 3005A Batch End Date: 09/25/21 00:32

Batch Notes	
Temperature - Corrected - End	94.1 Degrees C
Temperature - Corrected - Start	94.1 Degrees C
Digestion End Time	09/25/2021 00:32
Digestion Start Time	09/24/2021 20:32
Digestion Unit ID	BLOCK e
Hydrochloric Acid ID	2954789
Nitric Acid ID	2954797
Pipette/Syringe/Dispenser ID	METALS-PREP-2
Analyst ID - Spike Analyst	TH
Sufficient Volume for Batch QC	yes
Thermometer Location ID	e34
Thermometer ID	700396
Digestion Tube/Cup ID	2953186
Temperature - Uncorrected - End	94.0 Degrees C
Temperature - Uncorrected - Start	94.0 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.

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ANALYTICAL REPORT

Eurofins FGS, Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

Laboratory Job ID: 580-108197-1
Client Project/Site: BP - ARCO 11060

For:
Antea USA Inc.
4006 148th Ave NE
Redmond, Washington 98052

Attn: Megan Richard

M. Elaine Walker

Authorized for release by:
12/22/2021 6:30:50 PM

Elaine Walker, Project Manager II
(253)248-4972
m.elaine.walker@eurofinset.com

Table of Contents

Definitions/Glossary

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

Job ID: 580-108197-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

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

Job ID: 580-108197-1

Laboratory: Eurofins FGS, Seattle

Narrative

Job Narrative
580-108197-1

Receipt
Nine samples were received on 12/8/2021 12:10 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.3º C and 1.6º C.

GC/MS VOA
Method 8260D: Surrogate recovery for the following sample was outside the upper control limit: Trip Blanks_20211207 (580-108197-9). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8260D: Surrogate recovery for the following sample was outside control limits: MW-4_20211207 (580-108197-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8260D: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-4_20211207 (580-108197-4). Elevated reporting limits (RLs) are provided.

Method 8260D: Reanalysis of the following sample was performed outside of the analytical holding time due to previous runs rendering results outside the calibration range: MW-4_20211207 (580-108197-4).

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

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

GC VOA
Method NWTPH-Gx: Surrogate recovery for the following samples was outside control limits: MW-4_20211207 (580-108197-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

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

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

Detection Summary

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

Job ID: 580-108197-1

Client Sample ID: GWM-1_20211207 — Lab Sample ID: 580-108197-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline	590		250	100	ug/L	1		NWTPH-Gx	Total/NA
#2 Diesel (C10-C24)	360		110	66	ug/L	1		NWTPH-Dx	Total/NA

Client Sample ID: MW-2_20211207 — Lab Sample ID: 580-108197-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
#2 Diesel (C10-C24)	220		120	69	ug/L	1		NWTPH-Dx	Total/NA
Motor Oil (>C24-C36)	420		370	100	ug/L	1		NWTPH-Dx	Total/NA

Client Sample ID: MW-3_20211207 — Lab Sample ID: 580-108197-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.59		0.10	0.032	ug/L	1		8270E SIM	Total/NA
#2 Diesel (C10-C24)	110		110	67	ug/L	1		NWTPH-Dx	Total/NA

Client Sample ID: MW-4_20211207 — Lab Sample ID: 580-108197-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloroethane	31		1.0	0.24	ug/L	1		8260D	Total/NA
1,3-Butadiene	3.1		1.0	0.49	ug/L	1		8260D	Total/NA
Benzene	61		1.0	0.24	ug/L	1		8260D	Total/NA
Ethylbenzene	130		1.0	0.50	ug/L	1		8260D	Total/NA
Hexane	41		3.0	0.69	ug/L	1		8260D	Total/NA
Toluene	73		1.0	0.39	ug/L	1		8260D	Total/NA
m-Xylene & p-Xylene - DL	1500	H	100	27	ug/L	50		8260D	Total/NA
o-Xylene - DL	810	H	50	20	ug/L	50		8260D	Total/NA
Xylenes, Total - DL	2300	H	100	27	ug/L	50		8260D	Total/NA
Naphthalene	28		0.11	0.033	ug/L	1		8270E SIM	Total/NA
2-Methylnaphthalene	8.7		0.21	0.042	ug/L	1		8270E SIM	Total/NA
1-Methylnaphthalene	4.4		0.11	0.020	ug/L	1		8270E SIM	Total/NA
Phenanthrene	0.16		0.11	0.033	ug/L	1		8270E SIM	Total/NA
Pyrene	0.17		0.11	0.035	ug/L	1		8270E SIM	Total/NA
Benzo[b]fluoranthene	0.063		0.053	0.012	ug/L	1		8270E SIM	Total/NA
Gasoline	19000		250	100	ug/L	1		NWTPH-Gx	Total/NA
#2 Diesel (C10-C24)	11000		110	67	ug/L	1		NWTPH-Dx	Total/NA
Motor Oil (>C24-C36)	1900		360	99	ug/L	1		NWTPH-Dx	Total/NA
Lead	220		2.0	0.20	ug/L	5		6020B	Total Recoverable
Lead	110		2.0	0.20	ug/L	5		6020B	Dissolved

Client Sample ID: MW-6_20211207 — Lab Sample ID: 580-108197-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m-Xylene & p-Xylene	2.5		2.0	0.53	ug/L	1		8260D	Total/NA
o-Xylene	1.0		1.0	0.39	ug/L	1		8260D	Total/NA
Xylenes, Total	3.5		2.0	0.53	ug/L	1		8260D	Total/NA
Naphthalene	0.30		0.10	0.032	ug/L	1		8270E SIM	Total/NA

Client Sample ID: MW-9_20211207 — Lab Sample ID: 580-108197-6

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins FGS, Seattle

Detection Summary

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

Job ID: 580-108197-1

Client Sample ID: MW-11_20211207 — Lab Sample ID: 580-108197-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.38		0.10	0.033	ug/L	1		8270E SIM	Total/NA
#2 Diesel (C10-C24)	540		120	68	ug/L	1		NWTPH-Dx	Total/NA
Motor Oil (>C24-C36)	480		370	100	ug/L	1		NWTPH-Dx	Total/NA

Client Sample ID: MW-12_20211207 — Lab Sample ID: 580-108197-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.32		0.10	0.031	ug/L	1		8270E SIM	Total/NA
Acenaphthylene	0.11		0.050	0.0090	ug/L	1		8270E SIM	Total/NA
Gasoline	440		250	100	ug/L	1		NWTPH-Gx	Total/NA
#2 Diesel (C10-C24)	2700		110	67	ug/L	1		NWTPH-Dx	Total/NA
Motor Oil (>C24-C36)	420		360	99	ug/L	1		NWTPH-Dx	Total/NA

Client Sample ID: Trip Blanks_20211207 — Lab Sample ID: 580-108197-9

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: GWM-1_20211207

Date Collected: 12/07/21 15:05
Date Received: 12/08/21 12:10

Lab Sample ID: 580-108197-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			12/17/21 02:42	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			12/17/21 02:42	1
1,3-Butadiene	ND		1.0	0.49	ug/L			12/17/21 02:42	1
Benzene	ND		1.0	0.24	ug/L			12/17/21 02:42	1
Chloroform	ND		1.0	0.26	ug/L			12/17/21 02:42	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			12/17/21 02:42	1
Ethylbenzene	ND		1.0	0.50	ug/L			12/17/21 02:42	1
Hexane	ND		3.0	0.69	ug/L			12/17/21 02:42	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			12/17/21 02:42	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			12/17/21 02:42	1
o-Xylene	ND		1.0	0.39	ug/L			12/17/21 02:42	1
Tetrachloroethene	ND		1.0	0.41	ug/L			12/17/21 02:42	1
Trichloroethene	ND		1.0	0.26	ug/L			12/17/21 02:42	1
Toluene	ND		1.0	0.39	ug/L			12/17/21 02:42	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			12/17/21 02:42	1
Vinyl chloride	ND		1.0	0.22	ug/L			12/17/21 02:42	1
Xylenes, Total	ND		2.0	0.53	ug/L			12/17/21 02:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*12/17/21 02:42*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*12/17/21 02:42*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*12/17/21 02:42*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*12/17/21 02:42*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.11	0.033	ug/L		12/10/21 10:37	12/13/21 12:59	1
2-Methylnaphthalene	ND		0.21	0.041	ug/L		12/10/21 10:37	12/13/21 12:59	1
1-Methylnaphthalene	ND		0.11	0.020	ug/L		12/10/21 10:37	12/13/21 12:59	1
Acenaphthylene	ND		0.053	0.0096	ug/L		12/10/21 10:37	12/13/21 12:59	1
Acenaphthene	ND		0.11	0.015	ug/L		12/10/21 10:37	12/13/21 12:59	1
Fluorene	ND		0.11	0.018	ug/L		12/10/21 10:37	12/13/21 12:59	1
Phenanthrene	ND		0.11	0.033	ug/L		12/10/21 10:37	12/13/21 12:59	1
Anthracene	ND		0.11	0.023	ug/L		12/10/21 10:37	12/13/21 12:59	1
Fluoranthene	ND		0.21	0.019	ug/L		12/10/21 10:37	12/13/21 12:59	1
Pyrene	ND		0.11	0.035	ug/L		12/10/21 10:37	12/13/21 12:59	1
Benzo[a]anthracene	ND		0.053	0.015	ug/L		12/10/21 10:37	12/13/21 12:59	1
Chrysene	ND		0.11	0.017	ug/L		12/10/21 10:37	12/13/21 12:59	1
Benzo[b]fluoranthene	ND		0.053	0.012	ug/L		12/10/21 10:37	12/13/21 12:59	1
Benzo[k]fluoranthene	ND		0.053	0.013	ug/L		12/10/21 10:37	12/13/21 12:59	1
Benzo[a]pyrene	ND		0.11	0.012	ug/L		12/10/21 10:37	12/13/21 12:59	1
Indeno[1,2,3-cd]pyrene	ND		0.053	0.015	ug/L		12/10/21 10:37	12/13/21 12:59	1
Dibenz(a,h)anthracene	ND		0.11	0.016	ug/L		12/10/21 10:37	12/13/21 12:59	1
Benzo[g,h,i]perylene	ND		0.053	0.013	ug/L		12/10/21 10:37	12/13/21 12:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*102*		*29 - 150*	*12/10/21 10:37*	*12/13/21 12:59*	*1*

Client Sample ID: GWM-1_20211207

Lab Sample ID: 580-108197-1

Date Collected: 12/07/21 15:05

Matrix: Water

Date Received: 12/08/21 12:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**590**		250	100	ug/L			12/11/21 09:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*50 - 150*		*12/11/21 09:18*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	**360**		110	66	ug/L		12/17/21 10:45	12/18/21 01:21	1
Motor Oil (>C24-C36)	ND		360	98	ug/L		12/17/21 10:45	12/18/21 01:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*50 - 150*	*12/17/21 10:45*	*12/18/21 01:21*	*1*

Method: 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		12/17/21 19:07	12/20/21 14:33	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.20	ug/L		12/16/21 11:22	12/16/21 16:27	5

Client Sample ID: MW-2_20211207

Lab Sample ID: 580-108197-2

Date Collected: 12/07/21 08:45

Matrix: Water

Date Received: 12/08/21 12:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			12/17/21 03:07	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			12/17/21 03:07	1
1,3-Butadiene	ND		1.0	0.49	ug/L			12/17/21 03:07	1
Benzene	ND		1.0	0.24	ug/L			12/17/21 03:07	1
Chloroform	ND		1.0	0.26	ug/L			12/17/21 03:07	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			12/17/21 03:07	1
Ethylbenzene	ND		1.0	0.50	ug/L			12/17/21 03:07	1
Hexane	ND		3.0	0.69	ug/L			12/17/21 03:07	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			12/17/21 03:07	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			12/17/21 03:07	1
o-Xylene	ND		1.0	0.39	ug/L			12/17/21 03:07	1
Tetrachloroethene	ND		1.0	0.41	ug/L			12/17/21 03:07	1
Trichloroethene	ND		1.0	0.26	ug/L			12/17/21 03:07	1
Toluene	ND		1.0	0.39	ug/L			12/17/21 03:07	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			12/17/21 03:07	1
Vinyl chloride	ND		1.0	0.22	ug/L			12/17/21 03:07	1
Xylenes, Total	ND		2.0	0.53	ug/L			12/17/21 03:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*12/17/21 03:07*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*12/17/21 03:07*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*12/17/21 03:07*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*12/17/21 03:07*	*1*

Client Sample ID: MW-2_20211207

Lab Sample ID: 580-108197-2

Date Collected: 12/07/21 08:45

Matrix: Water

Date Received: 12/08/21 12:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.10	0.032	ug/L		12/10/21 10:37	12/13/21 13:24	1
2-Methylnaphthalene	ND		0.21	0.040	ug/L		12/10/21 10:37	12/13/21 13:24	1
1-Methylnaphthalene	ND		0.10	0.020	ug/L		12/10/21 10:37	12/13/21 13:24	1
Acenaphthylene	ND		0.052	0.0093	ug/L		12/10/21 10:37	12/13/21 13:24	1
Acenaphthene	ND		0.10	0.015	ug/L		12/10/21 10:37	12/13/21 13:24	1
Fluorene	ND		0.10	0.018	ug/L		12/10/21 10:37	12/13/21 13:24	1
Phenanthrene	ND		0.10	0.032	ug/L		12/10/21 10:37	12/13/21 13:24	1
Anthracene	ND		0.10	0.023	ug/L		12/10/21 10:37	12/13/21 13:24	1
Fluoranthene	ND		0.21	0.019	ug/L		12/10/21 10:37	12/13/21 13:24	1
Pyrene	ND		0.10	0.034	ug/L		12/10/21 10:37	12/13/21 13:24	1
Benzo[a]anthracene	ND		0.052	0.015	ug/L		12/10/21 10:37	12/13/21 13:24	1
Chrysene	ND		0.10	0.017	ug/L		12/10/21 10:37	12/13/21 13:24	1
Benzo[b]fluoranthene	ND		0.052	0.011	ug/L		12/10/21 10:37	12/13/21 13:24	1
Benzo[k]fluoranthene	ND		0.052	0.012	ug/L		12/10/21 10:37	12/13/21 13:24	1
Benzo[a]pyrene	ND		0.10	0.011	ug/L		12/10/21 10:37	12/13/21 13:24	1
Indeno[1,2,3-cd]pyrene	ND		0.052	0.015	ug/L		12/10/21 10:37	12/13/21 13:24	1
Dibenz(a,h)anthracene	ND		0.10	0.016	ug/L		12/10/21 10:37	12/13/21 13:24	1
Benzo[g,h,i]perylene	ND		0.052	0.012	ug/L		12/10/21 10:37	12/13/21 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*104*		*29 - 150*	*12/10/21 10:37*	*12/13/21 13:24*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		250	100	ug/L			12/11/21 10:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*50 - 150*		*12/11/21 10:31*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	**220**		120	69	ug/L		12/17/21 10:45	12/18/21 01:40	1
Motor Oil (>C24-C36)	**420**		370	100	ug/L		12/17/21 10:45	12/18/21 01:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*83*		*50 - 150*	*12/17/21 10:45*	*12/18/21 01:40*	*1*

Method: 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		12/17/21 19:07	12/20/21 14:37	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.20	ug/L		12/16/21 11:22	12/16/21 18:07	5

Client Sample ID: MW-3_20211207

Lab Sample ID: 580-108197-3

Date Collected: 12/07/21 10:40

Matrix: Water

Date Received: 12/08/21 12:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			12/17/21 03:32	1

Client Sample ID: MW-3_20211207

Date Collected: 12/07/21 10:40
Date Received: 12/08/21 12:10

Lab Sample ID: 580-108197-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	0.28	ug/L			12/17/21 03:32	1
1,3-Butadiene	ND		1.0	0.49	ug/L			12/17/21 03:32	1
Benzene	ND		1.0	0.24	ug/L			12/17/21 03:32	1
Chloroform	ND		1.0	0.26	ug/L			12/17/21 03:32	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			12/17/21 03:32	1
Ethylbenzene	ND		1.0	0.50	ug/L			12/17/21 03:32	1
Hexane	ND		3.0	0.69	ug/L			12/17/21 03:32	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			12/17/21 03:32	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			12/17/21 03:32	1
o-Xylene	ND		1.0	0.39	ug/L			12/17/21 03:32	1
Tetrachloroethene	ND		1.0	0.41	ug/L			12/17/21 03:32	1
Trichloroethene	ND		1.0	0.26	ug/L			12/17/21 03:32	1
Toluene	ND		1.0	0.39	ug/L			12/17/21 03:32	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			12/17/21 03:32	1
Vinyl chloride	ND		1.0	0.22	ug/L			12/17/21 03:32	1
Xylenes, Total	ND		2.0	0.53	ug/L			12/17/21 03:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*12/17/21 03:32*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*12/17/21 03:32*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*12/17/21 03:32*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*12/17/21 03:32*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.59**		0.10	0.032	ug/L		12/10/21 10:37	12/13/21 13:49	1
2-Methylnaphthalene	ND		0.21	0.040	ug/L		12/10/21 10:37	12/13/21 13:49	1
1-Methylnaphthalene	ND		0.10	0.020	ug/L		12/10/21 10:37	12/13/21 13:49	1
Acenaphthylene	ND		0.051	0.0093	ug/L		12/10/21 10:37	12/13/21 13:49	1
Acenaphthene	ND		0.10	0.014	ug/L		12/10/21 10:37	12/13/21 13:49	1
Fluorene	ND		0.10	0.017	ug/L		12/10/21 10:37	12/13/21 13:49	1
Phenanthrene	ND		0.10	0.032	ug/L		12/10/21 10:37	12/13/21 13:49	1
Anthracene	ND		0.10	0.023	ug/L		12/10/21 10:37	12/13/21 13:49	1
Fluoranthene	ND		0.21	0.019	ug/L		12/10/21 10:37	12/13/21 13:49	1
Pyrene	ND		0.10	0.034	ug/L		12/10/21 10:37	12/13/21 13:49	1
Benzo[a]anthracene	ND		0.051	0.014	ug/L		12/10/21 10:37	12/13/21 13:49	1
Chrysene	ND		0.10	0.016	ug/L		12/10/21 10:37	12/13/21 13:49	1
Benzo[b]fluoranthene	ND		0.051	0.011	ug/L		12/10/21 10:37	12/13/21 13:49	1
Benzo[k]fluoranthene	ND		0.051	0.012	ug/L		12/10/21 10:37	12/13/21 13:49	1
Benzo[a]pyrene	ND		0.10	0.011	ug/L		12/10/21 10:37	12/13/21 13:49	1
Indeno[1,2,3-cd]pyrene	ND		0.051	0.014	ug/L		12/10/21 10:37	12/13/21 13:49	1
Dibenz(a,h)anthracene	ND		0.10	0.015	ug/L		12/10/21 10:37	12/13/21 13:49	1
Benzo[g,h,i]perylene	ND		0.051	0.012	ug/L		12/10/21 10:37	12/13/21 13:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*97*		*29 - 150*	*12/10/21 10:37*	*12/13/21 13:49*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		250	100	ug/L			12/11/21 10:55	1

Client Sample ID: MW-3_20211207

Date Collected: 12/07/21 10:40
Date Received: 12/08/21 12:10

Lab Sample ID: 580-108197-3

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*50 - 150*		*12/11/21 10:55*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	**110**		110	67	ug/L		12/17/21 10:45	12/18/21 02:19	1
Motor Oil (>C24-C36)	ND		360	99	ug/L		12/17/21 10:45	12/18/21 02:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*67*		*50 - 150*	*12/17/21 10:45*	*12/18/21 02:19*	*1*

Method: 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		12/17/21 19:07	12/20/21 14:41	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.20	ug/L		12/16/21 11:22	12/16/21 17:13	5

Client Sample ID: MW-4_20211207

Date Collected: 12/07/21 11:40
Date Received: 12/08/21 12:10

Lab Sample ID: 580-108197-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	**31**		1.0	0.24	ug/L			12/21/21 15:20	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			12/21/21 15:20	1
1,3-Butadiene	**3.1**		1.0	0.49	ug/L			12/21/21 15:20	1
Benzene	**61**		1.0	0.24	ug/L			12/21/21 15:20	1
Chloroform	ND		1.0	0.26	ug/L			12/21/21 15:20	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			12/21/21 15:20	1
Ethylbenzene	**130**		1.0	0.50	ug/L			12/21/21 15:20	1
Hexane	**41**		3.0	0.69	ug/L			12/21/21 15:20	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			12/21/21 15:20	1
Tetrachloroethene	ND		1.0	0.41	ug/L			12/21/21 15:20	1
Trichloroethene	ND		1.0	0.26	ug/L			12/21/21 15:20	1
Toluene	**73**		1.0	0.39	ug/L			12/21/21 15:20	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			12/21/21 15:20	1
Vinyl chloride	ND		1.0	0.22	ug/L			12/21/21 15:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*80 - 120*		*12/21/21 15:20*	*1*
4-Bromofluorobenzene (Surr)	*74*	*S1-*	*80 - 120*		*12/21/21 15:20*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*12/21/21 15:20*	*1*
Toluene-d8 (Surr)	*87*		*80 - 120*		*12/21/21 15:20*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	**1500**	**H**	100	27	ug/L			12/22/21 15:09	50
o-Xylene	**810**	**H**	50	20	ug/L			12/22/21 15:09	50
Xylenes, Total	**2300**	**H**	100	27	ug/L			12/22/21 15:09	50

Client Sample ID: MW-4_20211207

Date Collected: 12/07/21 11:40
Date Received: 12/08/21 12:10

Lab Sample ID: 580-108197-4

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 120*		*12/22/21 15:09*	*50*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*12/22/21 15:09*	*50*
Dibromofluoromethane (Surr)	*111*		*80 - 120*		*12/22/21 15:09*	*50*
Toluene-d8 (Surr)	*94*		*80 - 120*		*12/22/21 15:09*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**28**		0.11	0.033	ug/L		12/10/21 10:37	12/13/21 14:13	1
2-Methylnaphthalene	**8.7**		0.21	0.042	ug/L		12/10/21 10:37	12/13/21 14:13	1
1-Methylnaphthalene	**4.4**		0.11	0.020	ug/L		12/10/21 10:37	12/13/21 14:13	1
Acenaphthylene	ND		0.053	0.0096	ug/L		12/10/21 10:37	12/13/21 14:13	1
Acenaphthene	ND		0.11	0.015	ug/L		12/10/21 10:37	12/13/21 14:13	1
Fluorene	ND		0.11	0.018	ug/L		12/10/21 10:37	12/13/21 14:13	1
Phenanthrene	**0.16**		0.11	0.033	ug/L		12/10/21 10:37	12/13/21 14:13	1
Anthracene	ND		0.11	0.023	ug/L		12/10/21 10:37	12/13/21 14:13	1
Fluoranthene	ND		0.21	0.019	ug/L		12/10/21 10:37	12/13/21 14:13	1
Pyrene	**0.17**		0.11	0.035	ug/L		12/10/21 10:37	12/13/21 14:13	1
Benzo[a]anthracene	ND		0.053	0.015	ug/L		12/10/21 10:37	12/13/21 14:13	1
Chrysene	ND		0.11	0.017	ug/L		12/10/21 10:37	12/13/21 14:13	1
Benzo[b]fluoranthene	**0.063**		0.053	0.012	ug/L		12/10/21 10:37	12/13/21 14:13	1
Benzo[k]fluoranthene	ND		0.053	0.013	ug/L		12/10/21 10:37	12/13/21 14:13	1
Benzo[a]pyrene	ND		0.11	0.012	ug/L		12/10/21 10:37	12/13/21 14:13	1
Indeno[1,2,3-cd]pyrene	ND		0.053	0.015	ug/L		12/10/21 10:37	12/13/21 14:13	1
Dibenz(a,h)anthracene	ND		0.11	0.016	ug/L		12/10/21 10:37	12/13/21 14:13	1
Benzo[g,h,i]perylene	ND		0.053	0.013	ug/L		12/10/21 10:37	12/13/21 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*39*		*29 - 150*	*12/10/21 10:37*	*12/13/21 14:13*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**19000**		250	100	ug/L			12/11/21 11:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*325*	*S1+*	*50 - 150*		*12/11/21 11:20*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	**11000**		110	67	ug/L		12/17/21 10:45	12/18/21 02:38	1
Motor Oil (>C24-C36)	**1900**		360	99	ug/L		12/17/21 10:45	12/18/21 02:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*83*		*50 - 150*	*12/17/21 10:45*	*12/18/21 02:38*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**220**		2.0	0.20	ug/L		12/17/21 19:07	12/20/21 14:45	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**110**		2.0	0.20	ug/L		12/16/21 11:22	12/16/21 17:17	5

Client Sample ID: MW-6_20211207
Date Collected: 12/07/21 09:40
Date Received: 12/08/21 12:10

Lab Sample ID: 580-108197-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			12/17/21 04:22	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			12/17/21 04:22	1
1,3-Butadiene	ND		1.0	0.49	ug/L			12/17/21 04:22	1
Benzene	ND		1.0	0.24	ug/L			12/17/21 04:22	1
Chloroform	ND		1.0	0.26	ug/L			12/17/21 04:22	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			12/17/21 04:22	1
Ethylbenzene	ND		1.0	0.50	ug/L			12/17/21 04:22	1
Hexane	ND		3.0	0.69	ug/L			12/17/21 04:22	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			12/17/21 04:22	1
m-Xylene & p-Xylene	**2.5**		2.0	0.53	ug/L			12/17/21 04:22	1
o-Xylene	**1.0**		1.0	0.39	ug/L			12/17/21 04:22	1
Tetrachloroethene	ND		1.0	0.41	ug/L			12/17/21 04:22	1
Trichloroethene	ND		1.0	0.26	ug/L			12/17/21 04:22	1
Toluene	ND		1.0	0.39	ug/L			12/17/21 04:22	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			12/17/21 04:22	1
Vinyl chloride	ND		1.0	0.22	ug/L			12/17/21 04:22	1
Xylenes, Total	**3.5**		2.0	0.53	ug/L			12/17/21 04:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*12/17/21 04:22*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*12/17/21 04:22*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*12/17/21 04:22*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*12/17/21 04:22*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.30**		0.10	0.032	ug/L		12/10/21 10:37	12/13/21 14:38	1
2-Methylnaphthalene	ND		0.21	0.040	ug/L		12/10/21 10:37	12/13/21 14:38	1
1-Methylnaphthalene	ND		0.10	0.020	ug/L		12/10/21 10:37	12/13/21 14:38	1
Acenaphthylene	ND		0.051	0.0093	ug/L		12/10/21 10:37	12/13/21 14:38	1
Acenaphthene	ND		0.10	0.014	ug/L		12/10/21 10:37	12/13/21 14:38	1
Fluorene	ND		0.10	0.018	ug/L		12/10/21 10:37	12/13/21 14:38	1
Phenanthrene	ND		0.10	0.032	ug/L		12/10/21 10:37	12/13/21 14:38	1
Anthracene	ND		0.10	0.023	ug/L		12/10/21 10:37	12/13/21 14:38	1
Fluoranthene	ND		0.21	0.019	ug/L		12/10/21 10:37	12/13/21 14:38	1
Pyrene	ND		0.10	0.034	ug/L		12/10/21 10:37	12/13/21 14:38	1
Benzo[a]anthracene	ND		0.051	0.014	ug/L		12/10/21 10:37	12/13/21 14:38	1
Chrysene	ND		0.10	0.016	ug/L		12/10/21 10:37	12/13/21 14:38	1
Benzo[b]fluoranthene	ND		0.051	0.011	ug/L		12/10/21 10:37	12/13/21 14:38	1
Benzo[k]fluoranthene	ND		0.051	0.012	ug/L		12/10/21 10:37	12/13/21 14:38	1
Benzo[a]pyrene	ND		0.10	0.011	ug/L		12/10/21 10:37	12/13/21 14:38	1
Indeno[1,2,3-cd]pyrene	ND		0.051	0.014	ug/L		12/10/21 10:37	12/13/21 14:38	1
Dibenz(a,h)anthracene	ND		0.10	0.015	ug/L		12/10/21 10:37	12/13/21 14:38	1
Benzo[g,h,i]perylene	ND		0.051	0.012	ug/L		12/10/21 10:37	12/13/21 14:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*100*		*29 - 150*	*12/10/21 10:37*	*12/13/21 14:38*	*1*

Client Sample ID: MW-6_20211207

Lab Sample ID: 580-108197-5

Date Collected: 12/07/21 09:40

Matrix: Water

Date Received: 12/08/21 12:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		250	100	ug/L			12/11/21 11:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*50 - 150*		*12/11/21 11:44*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		110	66	ug/L		12/17/21 10:45	12/18/21 02:57	1
Motor Oil (>C24-C36)	ND		350	97	ug/L		12/17/21 10:45	12/18/21 02:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*72*		*50 - 150*	*12/17/21 10:45*	*12/18/21 02:57*	*1*

Method: 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		12/17/21 19:07	12/20/21 15:04	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.20	ug/L		12/16/21 11:22	12/16/21 17:21	5

Client Sample ID: MW-9_20211207

Lab Sample ID: 580-108197-6

Date Collected: 12/07/21 16:05

Matrix: Water

Date Received: 12/08/21 12:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			12/17/21 04:47	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			12/17/21 04:47	1
1,3-Butadiene	ND		1.0	0.49	ug/L			12/17/21 04:47	1
Benzene	ND		1.0	0.24	ug/L			12/17/21 04:47	1
Chloroform	ND		1.0	0.26	ug/L			12/17/21 04:47	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			12/17/21 04:47	1
Ethylbenzene	ND		1.0	0.50	ug/L			12/17/21 04:47	1
Hexane	ND		3.0	0.69	ug/L			12/17/21 04:47	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			12/17/21 04:47	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			12/17/21 04:47	1
o-Xylene	ND		1.0	0.39	ug/L			12/17/21 04:47	1
Tetrachloroethene	ND		1.0	0.41	ug/L			12/17/21 04:47	1
Trichloroethene	ND		1.0	0.26	ug/L			12/17/21 04:47	1
Toluene	ND		1.0	0.39	ug/L			12/17/21 04:47	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			12/17/21 04:47	1
Vinyl chloride	ND		1.0	0.22	ug/L			12/17/21 04:47	1
Xylenes, Total	ND		2.0	0.53	ug/L			12/17/21 04:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*12/17/21 04:47*	*1*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*12/17/21 04:47*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*12/17/21 04:47*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*12/17/21 04:47*	*1*

Client Sample ID: MW-9_20211207

Lab Sample ID: 580-108197-6

Date Collected: 12/07/21 16:05

Matrix: Water

Date Received: 12/08/21 12:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.10	0.032	ug/L		12/10/21 10:37	12/13/21 15:03	1
2-Methylnaphthalene	ND		0.21	0.041	ug/L		12/10/21 10:37	12/13/21 15:03	1
1-Methylnaphthalene	ND		0.10	0.020	ug/L		12/10/21 10:37	12/13/21 15:03	1
Acenaphthylene	ND		0.052	0.0094	ug/L		12/10/21 10:37	12/13/21 15:03	1
Acenaphthene	ND		0.10	0.015	ug/L		12/10/21 10:37	12/13/21 15:03	1
Fluorene	ND		0.10	0.018	ug/L		12/10/21 10:37	12/13/21 15:03	1
Phenanthrene	ND		0.10	0.032	ug/L		12/10/21 10:37	12/13/21 15:03	1
Anthracene	ND		0.10	0.023	ug/L		12/10/21 10:37	12/13/21 15:03	1
Fluoranthene	ND		0.21	0.019	ug/L		12/10/21 10:37	12/13/21 15:03	1
Pyrene	ND		0.10	0.034	ug/L		12/10/21 10:37	12/13/21 15:03	1
Benzo[a]anthracene	ND		0.052	0.015	ug/L		12/10/21 10:37	12/13/21 15:03	1
Chrysene	ND		0.10	0.017	ug/L		12/10/21 10:37	12/13/21 15:03	1
Benzo[b]fluoranthene	ND		0.052	0.011	ug/L		12/10/21 10:37	12/13/21 15:03	1
Benzo[k]fluoranthene	ND		0.052	0.012	ug/L		12/10/21 10:37	12/13/21 15:03	1
Benzo[a]pyrene	ND		0.10	0.011	ug/L		12/10/21 10:37	12/13/21 15:03	1
Indeno[1,2,3-cd]pyrene	ND		0.052	0.015	ug/L		12/10/21 10:37	12/13/21 15:03	1
Dibenz(a,h)anthracene	ND		0.10	0.016	ug/L		12/10/21 10:37	12/13/21 15:03	1
Benzo[g,h,i]perylene	ND		0.052	0.012	ug/L		12/10/21 10:37	12/13/21 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*48*		*29 - 150*	*12/10/21 10:37*	*12/13/21 15:03*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		250	100	ug/L			12/11/21 12:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*50 - 150*		*12/11/21 12:09*	*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	66	ug/L		12/17/21 10:45	12/18/21 03:17	1
Motor Oil (>C24-C36)	ND		360	98	ug/L		12/17/21 10:45	12/18/21 03:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*83*		*50 - 150*	*12/17/21 10:45*	*12/18/21 03:17*	*1*

Method: 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		12/17/21 19:07	12/20/21 15:08	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.20	ug/L		12/16/21 11:22	12/16/21 17:25	5

Client Sample ID: MW-11_20211207

Lab Sample ID: 580-108197-7

Date Collected: 12/07/21 13:05

Matrix: Water

Date Received: 12/08/21 12:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			12/17/21 05:11	1

Client Sample ID: MW-11_20211207
Date Collected: 12/07/21 13:05
Date Received: 12/08/21 12:10

Lab Sample ID: 580-108197-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	0.28	ug/L			12/17/21 05:11	1
1,3-Butadiene	ND		1.0	0.49	ug/L			12/17/21 05:11	1
Benzene	ND		1.0	0.24	ug/L			12/17/21 05:11	1
Chloroform	ND		1.0	0.26	ug/L			12/17/21 05:11	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			12/17/21 05:11	1
Ethylbenzene	ND		1.0	0.50	ug/L			12/17/21 05:11	1
Hexane	ND		3.0	0.69	ug/L			12/17/21 05:11	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			12/17/21 05:11	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			12/17/21 05:11	1
o-Xylene	ND		1.0	0.39	ug/L			12/17/21 05:11	1
Tetrachloroethene	ND		1.0	0.41	ug/L			12/17/21 05:11	1
Trichloroethene	ND		1.0	0.26	ug/L			12/17/21 05:11	1
Toluene	ND		1.0	0.39	ug/L			12/17/21 05:11	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			12/17/21 05:11	1
Vinyl chloride	ND		1.0	0.22	ug/L			12/17/21 05:11	1
Xylenes, Total	ND		2.0	0.53	ug/L			12/17/21 05:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*12/17/21 05:11*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*12/17/21 05:11*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*12/17/21 05:11*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*12/17/21 05:11*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.38**		0.10	0.033	ug/L		12/14/21 10:01	12/14/21 18:13	1
2-Methylnaphthalene	ND		0.21	0.041	ug/L		12/14/21 10:01	12/14/21 18:13	1
1-Methylnaphthalene	ND		0.10	0.020	ug/L		12/14/21 10:01	12/14/21 18:13	1
Acenaphthylene	ND		0.052	0.0094	ug/L		12/14/21 10:01	12/14/21 18:13	1
Acenaphthene	ND		0.10	0.015	ug/L		12/14/21 10:01	12/14/21 18:13	1
Fluorene	ND		0.10	0.018	ug/L		12/14/21 10:01	12/14/21 18:13	1
Phenanthrene	ND		0.10	0.033	ug/L		12/14/21 10:01	12/14/21 18:13	1
Anthracene	ND		0.10	0.023	ug/L		12/14/21 10:01	12/14/21 18:13	1
Fluoranthene	ND		0.21	0.019	ug/L		12/14/21 10:01	12/14/21 18:13	1
Pyrene	ND		0.10	0.035	ug/L		12/14/21 10:01	12/14/21 18:13	1
Benzo[a]anthracene	ND		0.052	0.015	ug/L		12/14/21 10:01	12/14/21 18:13	1
Chrysene	ND		0.10	0.017	ug/L		12/14/21 10:01	12/14/21 18:13	1
Benzo[b]fluoranthene	ND		0.052	0.012	ug/L		12/14/21 10:01	12/14/21 18:13	1
Benzo[k]fluoranthene	ND		0.052	0.013	ug/L		12/14/21 10:01	12/14/21 18:13	1
Benzo[a]pyrene	ND		0.10	0.012	ug/L		12/14/21 10:01	12/14/21 18:13	1
Indeno[1,2,3-cd]pyrene	ND		0.052	0.015	ug/L		12/14/21 10:01	12/14/21 18:13	1
Dibenz(a,h)anthracene	ND		0.10	0.016	ug/L		12/14/21 10:01	12/14/21 18:13	1
Benzo[g,h,i]perylene	ND		0.052	0.013	ug/L		12/14/21 10:01	12/14/21 18:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*92*		*29 - 150*	*12/14/21 10:01*	*12/14/21 18:13*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		250	100	ug/L			12/11/21 12:33	1

Client Sample ID: MW-11_20211207

Lab Sample ID: 580-108197-7

Date Collected: 12/07/21 13:05

Matrix: Water

Date Received: 12/08/21 12:10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*50 - 150*		*12/11/21 12:33*	*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)	**540**		120	68	ug/L		12/17/21 10:45	12/18/21 03:36	1
Motor Oil (>C24-C36)	**480**		370	100	ug/L		12/17/21 10:45	12/18/21 03:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*85*		*50 - 150*	*12/17/21 10:45*	*12/18/21 03:36*	*1*

Method: 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		12/17/21 19:07	12/20/21 15:12	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.20	ug/L		12/16/21 11:22	12/16/21 17:29	5

Client Sample ID: MW-12_20211207

Lab Sample ID: 580-108197-8

Date Collected: 12/07/21 14:10

Matrix: Water

Date Received: 12/08/21 12:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			12/17/21 05:36	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			12/17/21 05:36	1
1,3-Butadiene	ND		1.0	0.49	ug/L			12/17/21 05:36	1
Benzene	ND		1.0	0.24	ug/L			12/17/21 05:36	1
Chloroform	ND		1.0	0.26	ug/L			12/17/21 05:36	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			12/17/21 05:36	1
Ethylbenzene	ND		1.0	0.50	ug/L			12/17/21 05:36	1
Hexane	ND		3.0	0.69	ug/L			12/17/21 05:36	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			12/17/21 05:36	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			12/17/21 05:36	1
o-Xylene	ND		1.0	0.39	ug/L			12/17/21 05:36	1
Tetrachloroethene	ND		1.0	0.41	ug/L			12/17/21 05:36	1
Trichloroethene	ND		1.0	0.26	ug/L			12/17/21 05:36	1
Toluene	ND		1.0	0.39	ug/L			12/17/21 05:36	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			12/17/21 05:36	1
Vinyl chloride	ND		1.0	0.22	ug/L			12/17/21 05:36	1
Xylenes, Total	ND		2.0	0.53	ug/L			12/17/21 05:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*		*12/17/21 05:36*	*1*
4-Bromofluorobenzene (Surr)	*117*		*80 - 120*		*12/17/21 05:36*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*12/17/21 05:36*	*1*
Toluene-d8 (Surr)	*110*		*80 - 120*		*12/17/21 05:36*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.32**		0.10	0.031	ug/L		12/14/21 10:01	12/14/21 18:37	1
2-Methylnaphthalene	ND		0.20	0.039	ug/L		12/14/21 10:01	12/14/21 18:37	1

Client Sample ID: MW-12_20211207

Lab Sample ID: 580-108197-8

Date Collected: 12/07/21 14:10

Matrix: Water

Date Received: 12/08/21 12:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.10	0.019	ug/L		12/14/21 10:01	12/14/21 18:37	1
Acenaphthylene	**0.11**		0.050	0.0090	ug/L		12/14/21 10:01	12/14/21 18:37	1
Acenaphthene	ND		0.10	0.014	ug/L		12/14/21 10:01	12/14/21 18:37	1
Fluorene	ND		0.10	0.017	ug/L		12/14/21 10:01	12/14/21 18:37	1
Phenanthrene	ND		0.10	0.031	ug/L		12/14/21 10:01	12/14/21 18:37	1
Anthracene	ND		0.10	0.022	ug/L		12/14/21 10:01	12/14/21 18:37	1
Fluoranthene	ND		0.20	0.018	ug/L		12/14/21 10:01	12/14/21 18:37	1
Pyrene	ND		0.10	0.033	ug/L		12/14/21 10:01	12/14/21 18:37	1
Benzo[a]anthracene	ND		0.050	0.014	ug/L		12/14/21 10:01	12/14/21 18:37	1
Chrysene	ND		0.10	0.016	ug/L		12/14/21 10:01	12/14/21 18:37	1
Benzo[b]fluoranthene	ND		0.050	0.011	ug/L		12/14/21 10:01	12/14/21 18:37	1
Benzo[k]fluoranthene	ND		0.050	0.012	ug/L		12/14/21 10:01	12/14/21 18:37	1
Benzo[a]pyrene	ND		0.10	0.011	ug/L		12/14/21 10:01	12/14/21 18:37	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.014	ug/L		12/14/21 10:01	12/14/21 18:37	1
Dibenz(a,h)anthracene	ND		0.10	0.015	ug/L		12/14/21 10:01	12/14/21 18:37	1
Benzo[g,h,i]perylene	ND		0.050	0.012	ug/L		12/14/21 10:01	12/14/21 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*82*		*29 - 150*	*12/14/21 10:01*	*12/14/21 18:37*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**440**		250	100	ug/L			12/11/21 12:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*50 - 150*		*12/11/21 12:57*	*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)	**2700**		110	67	ug/L		12/17/21 10:45	12/18/21 03:55	1
Motor Oil (>C24-C36)	**420**		360	99	ug/L		12/17/21 10:45	12/18/21 03:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*85*		*50 - 150*	*12/17/21 10:45*	*12/18/21 03:55*	*1*

Method: 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		12/17/21 19:07	12/20/21 15:16	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.20	ug/L		12/16/21 11:22	12/16/21 17:33	5

Client Sample ID: Trip Blanks_20211207

Lab Sample ID: 580-108197-9

Date Collected: 12/07/21 00:00

Matrix: Water

Date Received: 12/08/21 12:10

Method: 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			12/17/21 02:17	1
Toluene	ND		1.0	0.39	ug/L			12/17/21 02:17	1
Ethylbenzene	ND		1.0	0.50	ug/L			12/17/21 02:17	1

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

Job ID: 580-108197-1

Client Sample ID: Trip Blanks_20211207
Date Collected: 12/07/21 00:00
Date Received: 12/08/21 12:10

Lab Sample ID: 580-108197-9
Matrix: Water

Method: 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			12/17/21 02:17	1
o-Xylene	ND		1.0	0.39	ug/L			12/17/21 02:17	1
Xylenes, Total	ND		2.0	0.53	ug/L			12/17/21 02:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*12/17/21 02:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*12/17/21 02:17*	*1*
4-Bromofluorobenzene (Surr)	*140*	*S1+*	*80 - 120*		*12/17/21 02:17*	*1*
Dibromofluoromethane (Surr)	*128*	*S1+*	*80 - 120*		*12/17/21 02:17*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		250	100	ug/L			12/11/21 03:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*50 - 150*		*12/11/21 03:11*	*1*

Surrogate Summary

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

Job ID: 580-108197-1

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
580-108197-1	GWM-1_20211207	100	93	103	98
580-108197-2	MW-2_20211207	101	98	104	94
580-108197-3	MW-3_20211207	98	105	104	102
580-108197-4	MW-4_20211207	91	74 S1-	101	87
580-108197-4 - DL	MW-4_20211207	95	108	111	94
580-108197-5	MW-6_20211207	98	107	105	104
580-108197-6	MW-9_20211207	100	108	105	102
580-108197-7	MW-11_20211207	98	98	104	99
580-108197-8	MW-12_20211207	97	117	107	110
580-108197-9	Trip Blanks_20211207	100	140 S1+	128 S1+	102
LCS 580-376123/10	Lab Control Sample	92	102	101	100
LCS 580-376510/4	Lab Control Sample	91	100	104	104
LCS 580-376631/4	Lab Control Sample	96	100	106	103
LCSD 580-376123/11	Lab Control Sample Dup	94	101	104	99
LCSD 580-376510/5	Lab Control Sample Dup	91	101	104	104
LCSD 580-376631/5	Lab Control Sample Dup	94	102	105	103
MB 580-376123/13	Method Blank	101	97	104	94
MB 580-376510/7	Method Blank	96	99	106	101
MB 580-376631/7	Method Blank	98	96	106	101

Surrogate Legend

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

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TPHL
Lab Sample ID	Client Sample ID	(29-150)
580-108197-1	GWM-1_20211207	102
580-108197-2	MW-2_20211207	104
580-108197-3	MW-3_20211207	97
580-108197-4	MW-4_20211207	39
580-108197-5	MW-6_20211207	100
580-108197-6	MW-9_20211207	48
580-108197-7	MW-11_20211207	92
580-108197-8	MW-12_20211207	82
LCS 580-375527/2-A	Lab Control Sample	112
LCS 580-375746/2-A	Lab Control Sample	106
LCSD 580-375527/3-A	Lab Control Sample Dup	100
LCSD 580-375746/3-A	Lab Control Sample Dup	104
MB 580-375527/1-A	Method Blank	125
MB 580-375746/1-A	Method Blank	107

Surrogate Legend

TPHL = Terphenyl-d14

Surrogate Summary

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

Job ID: 580-108197-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)								
Lab Sample ID	Client Sample ID	BFB2 (50-150)								
580-108197-1	GWM-1_20211207	113								
580-108197-2	MW-2_20211207	92								
580-108197-3	MW-3_20211207	89								
580-108197-4	MW-4_20211207	325 S1+								
580-108197-5	MW-6_20211207	95								
580-108197-6	MW-9_20211207	94								
580-108197-7	MW-11_20211207	88								
580-108197-8	MW-12_20211207	102								
580-108197-9	Trip Blanks_20211207	92								
LCS 580-375594/4	Lab Control Sample	105								
LCSD 580-375594/5	Lab Control Sample Dup	105								
MB 580-375594/3	Method Blank	94								

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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)								
580-108197-1	GWM-1_20211207	84								
580-108197-2	MW-2_20211207	83								
580-108197-3	MW-3_20211207	67								
580-108197-4	MW-4_20211207	83								
580-108197-5	MW-6_20211207	72								
580-108197-6	MW-9_20211207	83								
580-108197-7	MW-11_20211207	85								
580-108197-8	MW-12_20211207	85								
LCS 580-376184/2-A	Lab Control Sample	97								
LCSD 580-376184/3-A	Lab Control Sample Dup	93								
MB 580-376184/1-A	Method Blank	81								

Surrogate Legend

OTPH = o-Terphenyl

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

Lab Sample ID: MB 580-376123/13
Matrix: Water
Analysis Batch: 376123

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			12/17/21 01:52	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			12/17/21 01:52	1
1,3-Butadiene	ND		1.0	0.49	ug/L			12/17/21 01:52	1
Benzene	ND		1.0	0.24	ug/L			12/17/21 01:52	1
Chloroform	ND		1.0	0.26	ug/L			12/17/21 01:52	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			12/17/21 01:52	1
Ethylbenzene	ND		1.0	0.50	ug/L			12/17/21 01:52	1
Hexane	ND		3.0	0.69	ug/L			12/17/21 01:52	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			12/17/21 01:52	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			12/17/21 01:52	1
o-Xylene	ND		1.0	0.39	ug/L			12/17/21 01:52	1
Tetrachloroethene	ND		1.0	0.41	ug/L			12/17/21 01:52	1
Trichloroethene	ND		1.0	0.26	ug/L			12/17/21 01:52	1
Toluene	ND		1.0	0.39	ug/L			12/17/21 01:52	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			12/17/21 01:52	1
Vinyl chloride	ND		1.0	0.22	ug/L			12/17/21 01:52	1
Xylenes, Total	ND		2.0	0.53	ug/L			12/17/21 01:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*12/17/21 01:52*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*12/17/21 01:52*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*12/17/21 01:52*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*12/17/21 01:52*	*1*

Lab Sample ID: LCS 580-376123/10
Matrix: Water
Analysis Batch: 376123

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	10.0	9.76		ug/L		98	80 - 121
1,1-Dichloroethene	10.0	11.2		ug/L		112	70 - 129
1,3-Butadiene	10.0	9.32		ug/L		93	24 - 150
Benzene	10.0	10.1		ug/L		101	80 - 122
Chloroform	10.0	10.7		ug/L		107	78 - 127
cis-1,2-Dichloroethene	10.0	10.1		ug/L		101	76 - 120
Ethylbenzene	10.0	10.0		ug/L		100	80 - 120
Hexane	10.0	8.66		ug/L		87	60 - 126
Methyl tert-butyl ether	10.0	9.77		ug/L		98	72 - 120
m-Xylene & p-Xylene	10.0	10.5		ug/L		105	80 - 120
o-Xylene	10.0	10.5		ug/L		105	80 - 120
Tetrachloroethene	10.0	10.2		ug/L		102	76 - 125
Trichloroethene	10.0	10.8		ug/L		108	80 - 125
Toluene	10.0	10.5		ug/L		105	80 - 120
trans-1,2-Dichloroethene	10.0	10.5		ug/L		105	75 - 120
Vinyl chloride	10.0	7.87		ug/L		79	31 - 150
Xylenes, Total	20.0	21.0		ug/L		105	80 - 120

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

Lab Sample ID: LCS 580-376123/10
Matrix: Water
Analysis Batch: 376123

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: LCSD 580-376123/11
Matrix: Water
Analysis Batch: 376123

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
1,1,2-Trichloroethane			10.0	9.60		ug/L		96	80 - 121	2	14
1,1-Dichloroethene			10.0	10.5		ug/L		105	70 - 129	6	23
1,3-Butadiene			10.0	7.42		ug/L		74	24 - 150	23	26
Benzene			10.0	9.59		ug/L		96	80 - 122	6	14
Chloroform			10.0	10.2		ug/L		102	78 - 127	5	14
cis-1,2-Dichloroethene			10.0	9.61		ug/L		96	76 - 120	5	20
Ethylbenzene			10.0	9.50		ug/L		95	80 - 120	5	14
Hexane			10.0	8.37		ug/L		84	60 - 126	3	19
Methyl tert-butyl ether			10.0	9.49		ug/L		95	72 - 120	3	18
m-Xylene & p-Xylene			10.0	9.70		ug/L		97	80 - 120	8	14
o-Xylene			10.0	10.1		ug/L		101	80 - 120	4	16
Tetrachloroethene			10.0	9.58		ug/L		96	76 - 125	7	13
Trichloroethene			10.0	10.0		ug/L		100	80 - 125	8	13
Toluene			10.0	10.0		ug/L		100	80 - 120	5	13
trans-1,2-Dichloroethene			10.0	9.93		ug/L		99	75 - 120	6	21
Vinyl chloride			10.0	7.56		ug/L		76	31 - 150	4	26
Xylenes, Total			20.0	19.8		ug/L		99	80 - 120	6	16

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*104*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: MB 580-376510/7
Matrix: Water
Analysis Batch: 376510

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			12/21/21 14:55	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			12/21/21 14:55	1
1,3-Butadiene	ND		1.0	0.49	ug/L			12/21/21 14:55	1
Benzene	ND		1.0	0.24	ug/L			12/21/21 14:55	1
Chloroform	ND		1.0	0.26	ug/L			12/21/21 14:55	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			12/21/21 14:55	1
Ethylbenzene	ND		1.0	0.50	ug/L			12/21/21 14:55	1
Hexane	ND		3.0	0.69	ug/L			12/21/21 14:55	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			12/21/21 14:55	1

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

Lab Sample ID: MB 580-376510/7
Matrix: Water
Analysis Batch: 376510

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.0	0.41	ug/L			12/21/21 14:55	1
Trichloroethene	ND		1.0	0.26	ug/L			12/21/21 14:55	1
Toluene	ND		1.0	0.39	ug/L			12/21/21 14:55	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			12/21/21 14:55	1
Vinyl chloride	ND		1.0	0.22	ug/L			12/21/21 14:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 120*		*12/21/21 14:55*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*12/21/21 14:55*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*12/21/21 14:55*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*12/21/21 14:55*	*1*

Lab Sample ID: LCS 580-376510/4
Matrix: Water
Analysis Batch: 376510

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,2-Trichloroethane			10.0	10.1		ug/L		101	80 - 121		
1,1-Dichloroethene			10.0	10.1		ug/L		101	70 - 129		
1,3-Butadiene			10.0	8.46		ug/L		85	24 - 150		
Benzene			10.0	9.83		ug/L		98	80 - 122		
Chloroform			10.0	10.5		ug/L		105	78 - 127		
cis-1,2-Dichloroethene			10.0	9.73		ug/L		97	76 - 120		
Ethylbenzene			10.0	9.99		ug/L		100	80 - 120		
Hexane			10.0	8.67		ug/L		87	60 - 126		
Methyl tert-butyl ether			10.0	9.13		ug/L		91	72 - 120		
Tetrachloroethene			10.0	9.98		ug/L		100	76 - 125		
Trichloroethene			10.0	9.97		ug/L		100	80 - 125		
Toluene			10.0	10.2		ug/L		102	80 - 120		
trans-1,2-Dichloroethene			10.0	9.97		ug/L		100	75 - 120		
Vinyl chloride			10.0	8.93		ug/L		89	31 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*104*		*80 - 120*
Toluene-d8 (Surr)	*104*		*80 - 120*

Lab Sample ID: LCSD 580-376510/5
Matrix: Water
Analysis Batch: 376510

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
1,1,2-Trichloroethane			10.0	9.95		ug/L		99	80 - 121	1	14
1,1-Dichloroethene			10.0	9.88		ug/L		99	70 - 129	2	23
1,3-Butadiene			10.0	8.13		ug/L		81	24 - 150	4	26
Benzene			10.0	9.66		ug/L		97	80 - 122	2	14
Chloroform			10.0	10.0		ug/L		100	78 - 127	5	14

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

Lab Sample ID: LCSD 580-376510/5
Matrix: Water
Analysis Batch: 376510

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
cis-1,2-Dichloroethene			10.0	9.58		ug/L		96	76 - 120	2	20
Ethylbenzene			10.0	9.53		ug/L		95	80 - 120	5	14
Hexane			10.0	8.68		ug/L		87	60 - 126	0	19
Methyl tert-butyl ether			10.0	8.93		ug/L		89	72 - 120	2	18
Tetrachloroethene			10.0	9.61		ug/L		96	76 - 125	4	13
Trichloroethene			10.0	9.72		ug/L		97	80 - 125	3	13
Toluene			10.0	9.93		ug/L		99	80 - 120	3	13
trans-1,2-Dichloroethene			10.0	9.65		ug/L		96	75 - 120	3	21
Vinyl chloride			10.0	8.67		ug/L		87	31 - 150	3	26

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*104*		*80 - 120*
Toluene-d8 (Surr)	*104*		*80 - 120*

Lab Sample ID: MB 580-376631/7
Matrix: Water
Analysis Batch: 376631

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			12/22/21 14:44	1
o-Xylene	ND		1.0	0.39	ug/L			12/22/21 14:44	1
Xylenes, Total	ND		2.0	0.53	ug/L			12/22/21 14:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*12/22/21 14:44*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*12/22/21 14:44*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*12/22/21 14:44*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*12/22/21 14:44*	*1*

Lab Sample ID: LCS 580-376631/4
Matrix: Water
Analysis Batch: 376631

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene			10.0	10.2		ug/L		102	80 - 120
o-Xylene			10.0	10.4		ug/L		104	80 - 120
Xylenes, Total			20.0	20.6		ug/L		103	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*106*		*80 - 120*
Toluene-d8 (Surr)	*103*		*80 - 120*

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

Lab Sample ID: LCSD 580-376631/5
Matrix: Water
Analysis Batch: 376631

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
m-Xylene & p-Xylene			10.0	10.4		ug/L		104	80 - 120	2	14
o-Xylene			10.0	10.6		ug/L		106	80 - 120	2	16
Xylenes, Total			20.0	21.0		ug/L		105	80 - 120	2	16

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*105*		*80 - 120*
Toluene-d8 (Surr)	*103*		*80 - 120*

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

Lab Sample ID: MB 580-375527/1-A
Matrix: Water
Analysis Batch: 375677

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 375527

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.10	0.031	ug/L		12/10/21 10:37	12/13/21 11:21	1
2-Methylnaphthalene	ND		0.20	0.039	ug/L		12/10/21 10:37	12/13/21 11:21	1
1-Methylnaphthalene	ND		0.10	0.019	ug/L		12/10/21 10:37	12/13/21 11:21	1
Acenaphthylene	ND		0.050	0.0090	ug/L		12/10/21 10:37	12/13/21 11:21	1
Acenaphthene	ND		0.10	0.014	ug/L		12/10/21 10:37	12/13/21 11:21	1
Fluorene	ND		0.10	0.017	ug/L		12/10/21 10:37	12/13/21 11:21	1
Phenanthrene	ND		0.10	0.031	ug/L		12/10/21 10:37	12/13/21 11:21	1
Anthracene	ND		0.10	0.022	ug/L		12/10/21 10:37	12/13/21 11:21	1
Fluoranthene	ND		0.20	0.018	ug/L		12/10/21 10:37	12/13/21 11:21	1
Pyrene	ND		0.10	0.033	ug/L		12/10/21 10:37	12/13/21 11:21	1
Benzo[a]anthracene	ND		0.050	0.014	ug/L		12/10/21 10:37	12/13/21 11:21	1
Chrysene	ND		0.10	0.016	ug/L		12/10/21 10:37	12/13/21 11:21	1
Benzo[b]fluoranthene	ND		0.050	0.011	ug/L		12/10/21 10:37	12/13/21 11:21	1
Benzo[k]fluoranthene	ND		0.050	0.012	ug/L		12/10/21 10:37	12/13/21 11:21	1
Benzo[a]pyrene	ND		0.10	0.011	ug/L		12/10/21 10:37	12/13/21 11:21	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.014	ug/L		12/10/21 10:37	12/13/21 11:21	1
Dibenz(a,h)anthracene	ND		0.10	0.015	ug/L		12/10/21 10:37	12/13/21 11:21	1
Benzo[g,h,i]perylene	ND		0.050	0.012	ug/L		12/10/21 10:37	12/13/21 11:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*125*		*29 - 150*	*12/10/21 10:37*	*12/13/21 11:21*	*1*

Lab Sample ID: LCS 580-375527/2-A
Matrix: Water
Analysis Batch: 375677

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 375527

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Naphthalene			4.00	3.45		ug/L		86	34 - 120		
2-Methylnaphthalene			4.00	3.80		ug/L		95	33 - 120		
1-Methylnaphthalene			4.00	2.96		ug/L		74	29 - 120		
Acenaphthylene			4.00	3.85		ug/L		96	38 - 120		

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

Lab Sample ID: LCS 580-375527/2-A
Matrix: Water
Analysis Batch: 375677

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 375527

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Acenaphthene			4.00	3.31		ug/L		83	33 - 120		
Fluorene			4.00	3.64		ug/L		91	39 - 120		
Phenanthrene			4.00	3.72		ug/L		93	46 - 120		
Anthracene			4.00	3.73		ug/L		93	41 - 120		
Fluoranthene			4.00	3.89		ug/L		97	51 - 125		
Pyrene			4.00	3.73		ug/L		93	51 - 125		
Benzo[a]anthracene			4.00	4.03		ug/L		101	55 - 123		
Chrysene			4.00	3.72		ug/L		93	47 - 120		
Benzo[b]fluoranthene			4.00	3.59		ug/L		90	43 - 120		
Benzo[k]fluoranthene			4.00	3.81		ug/L		95	41 - 121		
Benzo[a]pyrene			4.00	3.65		ug/L		91	51 - 120		
Indeno[1,2,3-cd]pyrene			4.00	3.46		ug/L		87	45 - 123		
Dibenz(a,h)anthracene			4.00	3.71		ug/L		93	54 - 123		
Benzo[g,h,i]perylene			4.00	3.49		ug/L		87	45 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*112*		*29 - 150*

Lab Sample ID: LCSD 580-375527/3-A
Matrix: Water
Analysis Batch: 375677

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 375527

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene			4.00	3.10		ug/L		77	34 - 120	11	35
2-Methylnaphthalene			4.00	3.39		ug/L		85	33 - 120	11	35
1-Methylnaphthalene			4.00	2.73		ug/L		68	29 - 120	8	35
Acenaphthylene			4.00	3.49		ug/L		87	38 - 120	10	35
Acenaphthene			4.00	3.04		ug/L		76	33 - 120	9	35
Fluorene			4.00	3.30		ug/L		83	39 - 120	10	35
Phenanthrene			4.00	3.51		ug/L		88	46 - 120	6	32
Anthracene			4.00	3.38		ug/L		84	41 - 120	10	29
Fluoranthene			4.00	3.61		ug/L		90	51 - 125	8	31
Pyrene			4.00	3.45		ug/L		86	51 - 125	8	30
Benzo[a]anthracene			4.00	3.68		ug/L		92	55 - 123	9	31
Chrysene			4.00	3.44		ug/L		86	47 - 120	8	30
Benzo[b]fluoranthene			4.00	3.19		ug/L		80	43 - 120	12	35
Benzo[k]fluoranthene			4.00	3.52		ug/L		88	41 - 121	8	35
Benzo[a]pyrene			4.00	3.24		ug/L		81	51 - 120	12	31
Indeno[1,2,3-cd]pyrene			4.00	3.51		ug/L		88	45 - 123	1	35
Dibenz(a,h)anthracene			4.00	3.36		ug/L		84	54 - 123	10	35
Benzo[g,h,i]perylene			4.00	3.14		ug/L		79	45 - 120	10	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Terphenyl-d14	*100*		*29 - 150*

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

Lab Sample ID: MB 580-375746/1-A
Matrix: Water
Analysis Batch: 375790

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 375746

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.10	0.031	ug/L		12/14/21 09:48	12/14/21 14:58	1
2-Methylnaphthalene	ND		0.20	0.039	ug/L		12/14/21 09:48	12/14/21 14:58	1
1-Methylnaphthalene	ND		0.10	0.019	ug/L		12/14/21 09:48	12/14/21 14:58	1
Acenaphthylene	ND		0.050	0.0090	ug/L		12/14/21 09:48	12/14/21 14:58	1
Acenaphthene	ND		0.10	0.014	ug/L		12/14/21 09:48	12/14/21 14:58	1
Fluorene	ND		0.10	0.017	ug/L		12/14/21 09:48	12/14/21 14:58	1
Phenanthrene	ND		0.10	0.031	ug/L		12/14/21 09:48	12/14/21 14:58	1
Anthracene	ND		0.10	0.022	ug/L		12/14/21 09:48	12/14/21 14:58	1
Fluoranthene	ND		0.20	0.018	ug/L		12/14/21 09:48	12/14/21 14:58	1
Pyrene	ND		0.10	0.033	ug/L		12/14/21 09:48	12/14/21 14:58	1
Benzo[a]anthracene	ND		0.050	0.014	ug/L		12/14/21 09:48	12/14/21 14:58	1
Chrysene	ND		0.10	0.016	ug/L		12/14/21 09:48	12/14/21 14:58	1
Benzo[b]fluoranthene	ND		0.050	0.011	ug/L		12/14/21 09:48	12/14/21 14:58	1
Benzo[k]fluoranthene	ND		0.050	0.012	ug/L		12/14/21 09:48	12/14/21 14:58	1
Benzo[a]pyrene	ND		0.10	0.011	ug/L		12/14/21 09:48	12/14/21 14:58	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.014	ug/L		12/14/21 09:48	12/14/21 14:58	1
Dibenz(a,h)anthracene	ND		0.10	0.015	ug/L		12/14/21 09:48	12/14/21 14:58	1
Benzo[g,h,i]perylene	ND		0.050	0.012	ug/L		12/14/21 09:48	12/14/21 14:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*107*		*29 - 150*	*12/14/21 09:48*	*12/14/21 14:58*	*1*

Lab Sample ID: LCS 580-375746/2-A
Matrix: Water
Analysis Batch: 375790

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 375746

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	4.00	3.37		ug/L		84	34 - 120
2-Methylnaphthalene	4.00	3.64		ug/L		91	33 - 120
1-Methylnaphthalene	4.00	2.90		ug/L		72	29 - 120
Acenaphthylene	4.00	3.37		ug/L		84	38 - 120
Acenaphthene	4.00	2.93		ug/L		73	33 - 120
Fluorene	4.00	3.01		ug/L		75	39 - 120
Phenanthrene	4.00	2.99		ug/L		75	46 - 120
Anthracene	4.00	2.99		ug/L		75	41 - 120
Fluoranthene	4.00	3.49		ug/L		87	51 - 125
Pyrene	4.00	3.42		ug/L		85	51 - 125
Benzo[a]anthracene	4.00	4.11		ug/L		103	55 - 123
Chrysene	4.00	3.07		ug/L		77	47 - 120
Benzo[b]fluoranthene	4.00	3.84		ug/L		96	43 - 120
Benzo[k]fluoranthene	4.00	3.16		ug/L		79	41 - 121
Benzo[a]pyrene	4.00	3.40		ug/L		85	51 - 120
Indeno[1,2,3-cd]pyrene	4.00	3.01		ug/L		75	45 - 123
Dibenz(a,h)anthracene	4.00	2.93		ug/L		73	54 - 123
Benzo[g,h,i]perylene	4.00	2.41		ug/L		60	45 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*106*		*29 - 150*

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

Lab Sample ID: LCSD 580-375746/3-A
Matrix: Water
Analysis Batch: 375790

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 375746

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene			4.00	3.17		ug/L		79	34 - 120	6	35
2-Methylnaphthalene			4.00	3.46		ug/L		87	33 - 120	5	35
1-Methylnaphthalene			4.00	2.79		ug/L		70	29 - 120	4	35
Acenaphthylene			4.00	3.15		ug/L		79	38 - 120	7	35
Acenaphthene			4.00	2.76		ug/L		69	33 - 120	6	35
Fluorene			4.00	2.90		ug/L		72	39 - 120	4	35
Phenanthrene			4.00	3.07		ug/L		77	46 - 120	3	32
Anthracene			4.00	3.11		ug/L		78	41 - 120	4	29
Fluoranthene			4.00	3.62		ug/L		90	51 - 125	4	31
Pyrene			4.00	3.56		ug/L		89	51 - 125	4	30
Benzo[a]anthracene			4.00	4.06		ug/L		102	55 - 123	1	31
Chrysene			4.00	3.08		ug/L		77	47 - 120	0	30
Benzo[b]fluoranthene			4.00	3.85		ug/L		96	43 - 120	0	35
Benzo[k]fluoranthene			4.00	3.32		ug/L		83	41 - 121	5	35
Benzo[a]pyrene			4.00	3.49		ug/L		87	51 - 120	3	31
Indeno[1,2,3-cd]pyrene			4.00	2.97		ug/L		74	45 - 123	1	35
Dibenz(a,h)anthracene			4.00	2.96		ug/L		74	54 - 123	1	35
Benzo[g,h,i]perylene			4.00	2.45		ug/L		61	45 - 120	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Terphenyl-d14	*104*		*29 - 150*

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

Lab Sample ID: MB 580-375594/3
Matrix: Water
Analysis Batch: 375594

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		250	100	ug/L			12/11/21 01:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*50 - 150*		*12/11/21 01:33*	*1*

Lab Sample ID: LCS 580-375594/4
Matrix: Water
Analysis Batch: 375594

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline			1000	998		ug/L		100	79 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*50 - 150*

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

Lab Sample ID: LCSD 580-375594/5
Matrix: Water
Analysis Batch: 375594

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			1000	984		ug/L		98	79 - 120	1	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*50 - 150*

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

Lab Sample ID: MB 580-376184/1-A
Matrix: Water
Analysis Batch: 376220

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376184

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		110	65	ug/L		12/17/21 10:45	12/17/21 20:29	1
Motor Oil (>C24-C36)	ND		350	96	ug/L		12/17/21 10:45	12/17/21 20:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*81*		*50 - 150*	*12/17/21 10:45*	*12/17/21 20:29*	*1*

Lab Sample ID: LCS 580-376184/2-A
Matrix: Water
Analysis Batch: 376220

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376184

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
#2 Diesel (C10-C24)			4000	3200		ug/L		80	50 - 120
Motor Oil (>C24-C36)			4000	3590		ug/L		90	64 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*97*		*50 - 150*

Lab Sample ID: LCSD 580-376184/3-A
Matrix: Water
Analysis Batch: 376220

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 376184

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)			4000	3220		ug/L		80	50 - 120	0	26
Motor Oil (>C24-C36)			4000	3420		ug/L		86	64 - 120	5	24

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*93*		*50 - 150*

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 580-376280/20-A
Matrix: Water
Analysis Batch: 376461

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 376280

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.20	ug/L		12/17/21 19:07	12/20/21 13:27	5

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: LCS 580-376280/21-A
Matrix: Water
Analysis Batch: 376461

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 376280

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	1000	986		ug/L		99	80 - 120

Lab Sample ID: LCSD 580-376280/22-A
Matrix: Water
Analysis Batch: 376461

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 376280

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	1000	973		ug/L		97	80 - 120	1	20

Lab Sample ID: MB 580-375900/16-B
Matrix: Water
Analysis Batch: 376148

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 376059

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.20	ug/L		12/16/21 11:22	12/16/21 16:19	5

Lab Sample ID: LCS 580-375900/17-B
Matrix: Water
Analysis Batch: 376148

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 376059

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	1000	1030		ug/L		103	80 - 120

Lab Sample ID: LCSD 580-375900/18-B
Matrix: Water
Analysis Batch: 376148

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved
Prep Batch: 376059

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	1000	1040		ug/L		104	80 - 120	1	20

Lab Sample ID: 580-108197-1 MS
Matrix: Water
Analysis Batch: 376148

Client Sample ID: GWM-1_20211207
Prep Type: Dissolved
Prep Batch: 376059

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	ND		1000	1100		ug/L		110	80 - 120

Lab Sample ID: 580-108197-1 MSD
Matrix: Water
Analysis Batch: 376148

Client Sample ID: GWM-1_20211207
Prep Type: Dissolved
Prep Batch: 376059

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	ND		1000	1110		ug/L		111	80 - 120	1	20

Lab Sample ID: 580-108197-1 DU
Matrix: Water
Analysis Batch: 376148

Client Sample ID: GWM-1_20211207
Prep Type: Dissolved
Prep Batch: 376059

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

GC/MS VOA

Analysis Batch: 376123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-108197-1	GWM-1_20211207	Total/NA	Water	8260D	
580-108197-2	MW-2_20211207	Total/NA	Water	8260D	
580-108197-3	MW-3_20211207	Total/NA	Water	8260D	
580-108197-5	MW-6_20211207	Total/NA	Water	8260D	
580-108197-6	MW-9_20211207	Total/NA	Water	8260D	
580-108197-7	MW-11_20211207	Total/NA	Water	8260D	
580-108197-8	MW-12_20211207	Total/NA	Water	8260D	
580-108197-9	Trip Blanks_20211207	Total/NA	Water	8260D	
MB 580-376123/13	Method Blank	Total/NA	Water	8260D	
LCS 580-376123/10	Lab Control Sample	Total/NA	Water	8260D	
LCSD 580-376123/11	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 376510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-108197-4	MW-4_20211207	Total/NA	Water	8260D	
MB 580-376510/7	Method Blank	Total/NA	Water	8260D	
LCS 580-376510/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 580-376510/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 376631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-108197-4 - DL	MW-4_20211207	Total/NA	Water	8260D	
MB 580-376631/7	Method Blank	Total/NA	Water	8260D	
LCS 580-376631/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 580-376631/5	Lab Control Sample Dup	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 375527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-108197-1	GWM-1_20211207	Total/NA	Water	3510C	
580-108197-2	MW-2_20211207	Total/NA	Water	3510C	
580-108197-3	MW-3_20211207	Total/NA	Water	3510C	
580-108197-4	MW-4_20211207	Total/NA	Water	3510C	
580-108197-5	MW-6_20211207	Total/NA	Water	3510C	
580-108197-6	MW-9_20211207	Total/NA	Water	3510C	
MB 580-375527/1-A	Method Blank	Total/NA	Water	3510C	
LCS 580-375527/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 580-375527/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 375677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-108197-1	GWM-1_20211207	Total/NA	Water	8270E SIM	375527
580-108197-2	MW-2_20211207	Total/NA	Water	8270E SIM	375527
580-108197-3	MW-3_20211207	Total/NA	Water	8270E SIM	375527
580-108197-4	MW-4_20211207	Total/NA	Water	8270E SIM	375527
580-108197-5	MW-6_20211207	Total/NA	Water	8270E SIM	375527
580-108197-6	MW-9_20211207	Total/NA	Water	8270E SIM	375527
MB 580-375527/1-A	Method Blank	Total/NA	Water	8270E SIM	375527
LCS 580-375527/2-A	Lab Control Sample	Total/NA	Water	8270E SIM	375527
LCSD 580-375527/3-A	Lab Control Sample Dup	Total/NA	Water	8270E SIM	375527

QC Association Summary

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

Job ID: 580-108197-1

GC/MS Semi VOA

Prep Batch: 375746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-108197-7	MW-11_20211207	Total/NA	Water	3510C	
580-108197-8	MW-12_20211207	Total/NA	Water	3510C	
MB 580-375746/1-A	Method Blank	Total/NA	Water	3510C	
LCS 580-375746/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 580-375746/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 375790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-108197-7	MW-11_20211207	Total/NA	Water	8270E SIM	375746
580-108197-8	MW-12_20211207	Total/NA	Water	8270E SIM	375746
MB 580-375746/1-A	Method Blank	Total/NA	Water	8270E SIM	375746
LCS 580-375746/2-A	Lab Control Sample	Total/NA	Water	8270E SIM	375746
LCSD 580-375746/3-A	Lab Control Sample Dup	Total/NA	Water	8270E SIM	375746

GC VOA

Analysis Batch: 375594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-108197-1	GWM-1_20211207	Total/NA	Water	NWTPH-Gx	
580-108197-2	MW-2_20211207	Total/NA	Water	NWTPH-Gx	
580-108197-3	MW-3_20211207	Total/NA	Water	NWTPH-Gx	
580-108197-4	MW-4_20211207	Total/NA	Water	NWTPH-Gx	
580-108197-5	MW-6_20211207	Total/NA	Water	NWTPH-Gx	
580-108197-6	MW-9_20211207	Total/NA	Water	NWTPH-Gx	
580-108197-7	MW-11_20211207	Total/NA	Water	NWTPH-Gx	
580-108197-8	MW-12_20211207	Total/NA	Water	NWTPH-Gx	
580-108197-9	Trip Blanks_20211207	Total/NA	Water	NWTPH-Gx	
MB 580-375594/3	Method Blank	Total/NA	Water	NWTPH-Gx	
LCS 580-375594/4	Lab Control Sample	Total/NA	Water	NWTPH-Gx	
LCSD 580-375594/5	Lab Control Sample Dup	Total/NA	Water	NWTPH-Gx	

GC Semi VOA

Prep Batch: 376184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-108197-1	GWM-1_20211207	Total/NA	Water	3510C	
580-108197-2	MW-2_20211207	Total/NA	Water	3510C	
580-108197-3	MW-3_20211207	Total/NA	Water	3510C	
580-108197-4	MW-4_20211207	Total/NA	Water	3510C	
580-108197-5	MW-6_20211207	Total/NA	Water	3510C	
580-108197-6	MW-9_20211207	Total/NA	Water	3510C	
580-108197-7	MW-11_20211207	Total/NA	Water	3510C	
580-108197-8	MW-12_20211207	Total/NA	Water	3510C	
MB 580-376184/1-A	Method Blank	Total/NA	Water	3510C	
LCS 580-376184/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 580-376184/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 376220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-108197-1	GWM-1_20211207	Total/NA	Water	NWTPH-Dx	376184
580-108197-2	MW-2_20211207	Total/NA	Water	NWTPH-Dx	376184
580-108197-3	MW-3_20211207	Total/NA	Water	NWTPH-Dx	376184

GC Semi VOA (Continued)

Analysis Batch: 376220 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-108197-4	MW-4_20211207	Total/NA	Water	NWTPH-Dx	376184
580-108197-5	MW-6_20211207	Total/NA	Water	NWTPH-Dx	376184
580-108197-6	MW-9_20211207	Total/NA	Water	NWTPH-Dx	376184
580-108197-7	MW-11_20211207	Total/NA	Water	NWTPH-Dx	376184
580-108197-8	MW-12_20211207	Total/NA	Water	NWTPH-Dx	376184
MB 580-376184/1-A	Method Blank	Total/NA	Water	NWTPH-Dx	376184
LCS 580-376184/2-A	Lab Control Sample	Total/NA	Water	NWTPH-Dx	376184
LCSD 580-376184/3-A	Lab Control Sample Dup	Total/NA	Water	NWTPH-Dx	376184

Metals

Filtration Batch: 375900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-108197-1	GWM-1_20211207	Dissolved	Water	FILTRATION	
580-108197-2	MW-2_20211207	Dissolved	Water	FILTRATION	
580-108197-3	MW-3_20211207	Dissolved	Water	FILTRATION	
580-108197-4	MW-4_20211207	Dissolved	Water	FILTRATION	
580-108197-5	MW-6_20211207	Dissolved	Water	FILTRATION	
580-108197-6	MW-9_20211207	Dissolved	Water	FILTRATION	
580-108197-7	MW-11_20211207	Dissolved	Water	FILTRATION	
580-108197-8	MW-12_20211207	Dissolved	Water	FILTRATION	
MB 580-375900/16-B	Method Blank	Dissolved	Water	FILTRATION	
LCS 580-375900/17-B	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 580-375900/18-B	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
580-108197-1 MS	GWM-1_20211207	Dissolved	Water	FILTRATION	
580-108197-1 MSD	GWM-1_20211207	Dissolved	Water	FILTRATION	
580-108197-1 DU	GWM-1_20211207	Dissolved	Water	FILTRATION	

Prep Batch: 376059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-108197-1	GWM-1_20211207	Dissolved	Water	3005A	375900
580-108197-2	MW-2_20211207	Dissolved	Water	3005A	375900
580-108197-3	MW-3_20211207	Dissolved	Water	3005A	375900
580-108197-4	MW-4_20211207	Dissolved	Water	3005A	375900
580-108197-5	MW-6_20211207	Dissolved	Water	3005A	375900
580-108197-6	MW-9_20211207	Dissolved	Water	3005A	375900
580-108197-7	MW-11_20211207	Dissolved	Water	3005A	375900
580-108197-8	MW-12_20211207	Dissolved	Water	3005A	375900
MB 580-375900/16-B	Method Blank	Dissolved	Water	3005A	375900
LCS 580-375900/17-B	Lab Control Sample	Dissolved	Water	3005A	375900
LCSD 580-375900/18-B	Lab Control Sample Dup	Dissolved	Water	3005A	375900
580-108197-1 MS	GWM-1_20211207	Dissolved	Water	3005A	375900
580-108197-1 MSD	GWM-1_20211207	Dissolved	Water	3005A	375900
580-108197-1 DU	GWM-1_20211207	Dissolved	Water	3005A	375900

Analysis Batch: 376148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-108197-1	GWM-1_20211207	Dissolved	Water	6020B	376059
580-108197-2	MW-2_20211207	Dissolved	Water	6020B	376059
580-108197-3	MW-3_20211207	Dissolved	Water	6020B	376059
580-108197-4	MW-4_20211207	Dissolved	Water	6020B	376059

Metals (Continued)

Analysis Batch: 376148 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-108197-5	MW-6_20211207	Dissolved	Water	6020B	376059
580-108197-6	MW-9_20211207	Dissolved	Water	6020B	376059
580-108197-7	MW-11_20211207	Dissolved	Water	6020B	376059
580-108197-8	MW-12_20211207	Dissolved	Water	6020B	376059
MB 580-375900/16-B	Method Blank	Dissolved	Water	6020B	376059
LCS 580-375900/17-B	Lab Control Sample	Dissolved	Water	6020B	376059
LCSD 580-375900/18-B	Lab Control Sample Dup	Dissolved	Water	6020B	376059
580-108197-1 MS	GWM-1_20211207	Dissolved	Water	6020B	376059
580-108197-1 MSD	GWM-1_20211207	Dissolved	Water	6020B	376059
580-108197-1 DU	GWM-1_20211207	Dissolved	Water	6020B	376059

Prep Batch: 376280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-108197-1	GWM-1_20211207	Total Recoverable	Water	3005A	
580-108197-2	MW-2_20211207	Total Recoverable	Water	3005A	
580-108197-3	MW-3_20211207	Total Recoverable	Water	3005A	
580-108197-4	MW-4_20211207	Total Recoverable	Water	3005A	
580-108197-5	MW-6_20211207	Total Recoverable	Water	3005A	
580-108197-6	MW-9_20211207	Total Recoverable	Water	3005A	
580-108197-7	MW-11_20211207	Total Recoverable	Water	3005A	
580-108197-8	MW-12_20211207	Total Recoverable	Water	3005A	
MB 580-376280/20-A	Method Blank	Total Recoverable	Water	3005A	
LCS 580-376280/21-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 580-376280/22-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	

Analysis Batch: 376461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-108197-1	GWM-1_20211207	Total Recoverable	Water	6020B	376280
580-108197-2	MW-2_20211207	Total Recoverable	Water	6020B	376280
580-108197-3	MW-3_20211207	Total Recoverable	Water	6020B	376280
580-108197-4	MW-4_20211207	Total Recoverable	Water	6020B	376280
580-108197-5	MW-6_20211207	Total Recoverable	Water	6020B	376280
580-108197-6	MW-9_20211207	Total Recoverable	Water	6020B	376280
580-108197-7	MW-11_20211207	Total Recoverable	Water	6020B	376280
580-108197-8	MW-12_20211207	Total Recoverable	Water	6020B	376280
MB 580-376280/20-A	Method Blank	Total Recoverable	Water	6020B	376280
LCS 580-376280/21-A	Lab Control Sample	Total Recoverable	Water	6020B	376280
LCSD 580-376280/22-A	Lab Control Sample Dup	Total Recoverable	Water	6020B	376280

Lab Chronicle

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

Job ID: 580-108197-1

Client Sample ID: GWM-1_20211207

Lab Sample ID: 580-108197-1

Date Collected: 12/07/21 15:05

Matrix: Water

Date Received: 12/08/21 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	376123	12/17/21 02:42	B1M	FGS SEA
Total/NA	Prep	3510C			375527	12/10/21 10:37	M1E	FGS SEA
Total/NA	Analysis	8270E SIM		1	375677	12/13/21 12:59	CJ	FGS SEA
Total/NA	Analysis	NWTPH-Gx		1	375594	12/11/21 09:18	JBT	FGS SEA
Total/NA	Prep	3510C			376184	12/17/21 10:45	M1E	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	376220	12/18/21 01:21	JAE	FGS SEA
Dissolved	Filtration	FILTRATION			375900	12/15/21 09:23	ABP	FGS SEA
Dissolved	Prep	3005A			376059	12/16/21 11:22	ABP	FGS SEA
Dissolved	Analysis	6020B		5	376148	12/16/21 16:27	FCW	FGS SEA
Total Recoverable	Prep	3005A			376280	12/17/21 19:07	ABP	FGS SEA
Total Recoverable	Analysis	6020B		5	376461	12/20/21 14:33	FCW	FGS SEA

Client Sample ID: MW-2_20211207

Lab Sample ID: 580-108197-2

Date Collected: 12/07/21 08:45

Matrix: Water

Date Received: 12/08/21 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	376123	12/17/21 03:07	B1M	FGS SEA
Total/NA	Prep	3510C			375527	12/10/21 10:37	M1E	FGS SEA
Total/NA	Analysis	8270E SIM		1	375677	12/13/21 13:24	CJ	FGS SEA
Total/NA	Analysis	NWTPH-Gx		1	375594	12/11/21 10:31	JBT	FGS SEA
Total/NA	Prep	3510C			376184	12/17/21 10:45	M1E	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	376220	12/18/21 01:40	JAE	FGS SEA
Dissolved	Filtration	FILTRATION			375900	12/15/21 09:23	ABP	FGS SEA
Dissolved	Prep	3005A			376059	12/16/21 11:22	ABP	FGS SEA
Dissolved	Analysis	6020B		5	376148	12/16/21 18:07	FCW	FGS SEA
Total Recoverable	Prep	3005A			376280	12/17/21 19:07	ABP	FGS SEA
Total Recoverable	Analysis	6020B		5	376461	12/20/21 14:37	FCW	FGS SEA

Client Sample ID: MW-3_20211207

Lab Sample ID: 580-108197-3

Date Collected: 12/07/21 10:40

Matrix: Water

Date Received: 12/08/21 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	376123	12/17/21 03:32	B1M	FGS SEA
Total/NA	Prep	3510C			375527	12/10/21 10:37	M1E	FGS SEA
Total/NA	Analysis	8270E SIM		1	375677	12/13/21 13:49	CJ	FGS SEA
Total/NA	Analysis	NWTPH-Gx		1	375594	12/11/21 10:55	JBT	FGS SEA
Total/NA	Prep	3510C			376184	12/17/21 10:45	M1E	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	376220	12/18/21 02:19	JAE	FGS SEA
Dissolved	Filtration	FILTRATION			375900	12/15/21 09:23	ABP	FGS SEA
Dissolved	Prep	3005A			376059	12/16/21 11:22	ABP	FGS SEA
Dissolved	Analysis	6020B		5	376148	12/16/21 17:13	FCW	FGS SEA
Total Recoverable	Prep	3005A			376280	12/17/21 19:07	ABP	FGS SEA
Total Recoverable	Analysis	6020B		5	376461	12/20/21 14:41	FCW	FGS SEA

Client Sample ID: MW-4_20211207

Lab Sample ID: 580-108197-4

Date Collected: 12/07/21 11:40

Matrix: Water

Date Received: 12/08/21 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	376510	12/21/21 15:20	T1W	FGS SEA
Total/NA	Analysis	8260D	DL	50	376631	12/22/21 15:09	B1M	FGS SEA
Total/NA	Prep	3510C			375527	12/10/21 10:37	M1E	FGS SEA
Total/NA	Analysis	8270E SIM		1	375677	12/13/21 14:13	CJ	FGS SEA
Total/NA	Analysis	NWTPH-Gx		1	375594	12/11/21 11:20	JBT	FGS SEA
Total/NA	Prep	3510C			376184	12/17/21 10:45	M1E	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	376220	12/18/21 02:38	JAE	FGS SEA
Dissolved	Filtration	FILTRATION			375900	12/15/21 09:23	ABP	FGS SEA
Dissolved	Prep	3005A			376059	12/16/21 11:22	ABP	FGS SEA
Dissolved	Analysis	6020B		5	376148	12/16/21 17:17	FCW	FGS SEA
Total Recoverable	Prep	3005A			376280	12/17/21 19:07	ABP	FGS SEA
Total Recoverable	Analysis	6020B		5	376461	12/20/21 14:45	FCW	FGS SEA

Client Sample ID: MW-6_20211207

Lab Sample ID: 580-108197-5

Date Collected: 12/07/21 09:40

Matrix: Water

Date Received: 12/08/21 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	376123	12/17/21 04:22	B1M	FGS SEA
Total/NA	Prep	3510C			375527	12/10/21 10:37	M1E	FGS SEA
Total/NA	Analysis	8270E SIM		1	375677	12/13/21 14:38	CJ	FGS SEA
Total/NA	Analysis	NWTPH-Gx		1	375594	12/11/21 11:44	JBT	FGS SEA
Total/NA	Prep	3510C			376184	12/17/21 10:45	M1E	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	376220	12/18/21 02:57	JAE	FGS SEA
Dissolved	Filtration	FILTRATION			375900	12/15/21 09:23	ABP	FGS SEA
Dissolved	Prep	3005A			376059	12/16/21 11:22	ABP	FGS SEA
Dissolved	Analysis	6020B		5	376148	12/16/21 17:21	FCW	FGS SEA
Total Recoverable	Prep	3005A			376280	12/17/21 19:07	ABP	FGS SEA
Total Recoverable	Analysis	6020B		5	376461	12/20/21 15:04	FCW	FGS SEA

Client Sample ID: MW-9_20211207

Lab Sample ID: 580-108197-6

Date Collected: 12/07/21 16:05

Matrix: Water

Date Received: 12/08/21 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	376123	12/17/21 04:47	B1M	FGS SEA
Total/NA	Prep	3510C			375527	12/10/21 10:37	M1E	FGS SEA
Total/NA	Analysis	8270E SIM		1	375677	12/13/21 15:03	CJ	FGS SEA
Total/NA	Analysis	NWTPH-Gx		1	375594	12/11/21 12:09	JBT	FGS SEA
Total/NA	Prep	3510C			376184	12/17/21 10:45	M1E	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	376220	12/18/21 03:17	JAE	FGS SEA
Dissolved	Filtration	FILTRATION			375900	12/15/21 09:23	ABP	FGS SEA
Dissolved	Prep	3005A			376059	12/16/21 11:22	ABP	FGS SEA
Dissolved	Analysis	6020B		5	376148	12/16/21 17:25	FCW	FGS SEA

Client Sample ID: MW-9_20211207

Lab Sample ID: 580-108197-6

Date Collected: 12/07/21 16:05

Matrix: Water

Date Received: 12/08/21 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			376280	12/17/21 19:07	ABP	FGS SEA
Total Recoverable	Analysis	6020B		5	376461	12/20/21 15:08	FCW	FGS SEA

Client Sample ID: MW-11_20211207

Lab Sample ID: 580-108197-7

Date Collected: 12/07/21 13:05

Matrix: Water

Date Received: 12/08/21 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	376123	12/17/21 05:11	B1M	FGS SEA
Total/NA	Prep	3510C			375746	12/14/21 10:01	M1E	FGS SEA
Total/NA	Analysis	8270E SIM		1	375790	12/14/21 18:13	E1L	FGS SEA
Total/NA	Analysis	NWTPH-Gx		1	375594	12/11/21 12:33	JBT	FGS SEA
Total/NA	Prep	3510C			376184	12/17/21 10:45	M1E	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	376220	12/18/21 03:36	JAE	FGS SEA
Dissolved	Filtration	FILTRATION			375900	12/15/21 09:23	ABP	FGS SEA
Dissolved	Prep	3005A			376059	12/16/21 11:22	ABP	FGS SEA
Dissolved	Analysis	6020B		5	376148	12/16/21 17:29	FCW	FGS SEA
Total Recoverable	Prep	3005A			376280	12/17/21 19:07	ABP	FGS SEA
Total Recoverable	Analysis	6020B		5	376461	12/20/21 15:12	FCW	FGS SEA

Client Sample ID: MW-12_20211207

Lab Sample ID: 580-108197-8

Date Collected: 12/07/21 14:10

Matrix: Water

Date Received: 12/08/21 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	376123	12/17/21 05:36	B1M	FGS SEA
Total/NA	Prep	3510C			375746	12/14/21 10:01	M1E	FGS SEA
Total/NA	Analysis	8270E SIM		1	375790	12/14/21 18:37	E1L	FGS SEA
Total/NA	Analysis	NWTPH-Gx		1	375594	12/11/21 12:57	JBT	FGS SEA
Total/NA	Prep	3510C			376184	12/17/21 10:45	M1E	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	376220	12/18/21 03:55	JAE	FGS SEA
Dissolved	Filtration	FILTRATION			375900	12/15/21 09:23	ABP	FGS SEA
Dissolved	Prep	3005A			376059	12/16/21 11:22	ABP	FGS SEA
Dissolved	Analysis	6020B		5	376148	12/16/21 17:33	FCW	FGS SEA
Total Recoverable	Prep	3005A			376280	12/17/21 19:07	ABP	FGS SEA
Total Recoverable	Analysis	6020B		5	376461	12/20/21 15:16	FCW	FGS SEA

Client Sample ID: Trip Blanks_20211207

Lab Sample ID: 580-108197-9

Date Collected: 12/07/21 00:00

Matrix: Water

Date Received: 12/08/21 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	376123	12/17/21 02:17	B1M	FGS SEA
Total/NA	Analysis	NWTPH-Gx		1	375594	12/11/21 03:11	JBT	FGS SEA

Lab Chronicle

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

Job ID: 580-108197-1

Laboratory References:

FGS SEA = Eurofins FGS, 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: 580-108197-1

Laboratory: Eurofins FGS, Seattle

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

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-22

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

Analysis Method	Prep Method	Matrix	Analyte
8260D		Water	1,3-Butadiene
8260D		Water	Hexane

Method Summary

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

Job ID: 580-108197-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	FGS SEA
8270E SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	FGS SEA
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC)	NWTPH	FGS SEA
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	FGS SEA
6020B	Metals (ICP/MS)	SW846	FGS SEA
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	FGS SEA
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	FGS SEA
5030B	Purge and Trap	SW846	FGS SEA
FILTRATION	Sample Filtration	None	FGS 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:

FGS SEA = Eurofins FGS, 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: 580-108197-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-108197-1	GWM-1_20211207	Water	12/07/21 15:05	12/08/21 12:10
580-108197-2	MW-2_20211207	Water	12/07/21 08:45	12/08/21 12:10
580-108197-3	MW-3_20211207	Water	12/07/21 10:40	12/08/21 12:10
580-108197-4	MW-4_20211207	Water	12/07/21 11:40	12/08/21 12:10
580-108197-5	MW-6_20211207	Water	12/07/21 09:40	12/08/21 12:10
580-108197-6	MW-9_20211207	Water	12/07/21 16:05	12/08/21 12:10
580-108197-7	MW-11_20211207	Water	12/07/21 13:05	12/08/21 12:10
580-108197-8	MW-12_20211207	Water	12/07/21 14:10	12/08/21 12:10
580-108197-9	Trip Blanks_20211207	Water	12/07/21 00:00	12/08/21 12:10

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

580-108197 Chain of Custody

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:	Test America	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:	
Lab PM:	Elaine Walker	Lead Regulatory Agency:	Washington State Department of Ecology	Address:	4006 148th Ave NE, Redmond, WA 98052
Lab Phone:	253.248.4972	California Global ID No.:	NA	Consultant/Contractor PM:	Megan Richard
Lab Shipping Accnt:		Enfos Proposal No:	WR851166/00C22-0002	Phone: 425-498-7711 Email:	Megan.Richard@anteagroup.us
Lab Bottle Order No:		Accounting Mode:	Provision __X___ OOC-BU _____ OOC-RM _____	Send/Submit EDD to:	Megan.Richard@anteagroup.us
Other Info:	M.Elaine.Walker@Eurofinset.com	Stage	2_Select (20) Activity Additional Data Collection (100)	Invoice To:	BP-RM _____ BP/ARC __X____
BP/RM PM:	Wade Melton				
PM Phone:	360--594-7978				
PM Email:	wade.melton@bp.com				

Sample Details | **Requested Analyses** | **Report Type & QC Level**

Limited (Standard) Package ____
Limited Plus Package ____
Full Package ____

Lab No.	Sample Description	Date	Time	Field Matrix	Start Depth	End Depth	Depth Unit	Grab (G) or Composite (C)	Total Number of Containers	Filt	Pres	Analysis	BTEX by EPA 8260	MTBE by EPA 8260	NWTPH-Gx	NWTPH-Dx	Pb-T by EPA 6020	Pb-D by EPA 6020	EDB by EPA 8011	PAHs	Select VOCs by EPA 8260	Comments
1	GWM-1_20211207	12/7/21	1505	W				G	12				X	X	X	X	X	X		X	X	
	~~MW-1~~			~~W~~				~~G~~					~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		~~X~~	~~X~~	
	MW-2_20211207	12/7/21	0845	W				G	12				X	X	X	X	X	X		X	X	
3	MW-3_20211207	12/7/21	1040	W				G	12				X	X	X	X	X	X		X	X	
	MW-4_20211207	12/7/21	1140	W				G	12				X	X	X	X	X	X		X	X	
	~~MW-5~~			~~W~~				~~G~~					~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		~~X~~	~~X~~	
5	MW-6_20211207	12/7/21	0940	W				G	12				X	X	X	X	X	X		X	X	

SH

SH

Sampler's Name: Nathan Han / Samantha Hinze	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: Antea Group	[signature] / Antea	12/8/21	1210	[signature]	12/8/21	1210
Ship Method: Courier Ship Date: 12/8/21						
Shipment Tracking No:						

Special Instructions (select VOCs by EPA 8260 analysis for the following): (1) 1-3-Butadiene (2) Chloroform (3) Ethanol (4) Hexane (5) Vinyl Chloride (6) 1,1-DCE (7) Cis-1,2-DCE (8) Trans-1,2 Dichloroethene (9) 1,1,2-trichloroethane (10) TCE (11) PCE

THIS LINE - LAB USE ONLY: Custody Seals Intact: Yes / No / NA Cooler Temperature Upon Receipt: MS/MSD Sample Submitted: Yes / No

Therm. ID: IR8 Cor: 1.6° Unc: 1.9 Therm. ID: IR3 Cor: 1.3 ° Unc: 1.8

Cooler Dsc: Lab Cooler Dsc: Lab

Packing: Bub Packing: Bub

Cust. Seal: Yes No Cust. Seal: Yes No

Blue Ice, Wet, Dry, None Blue Ice, Wet, Dry, None

FedEx: UPS: Lab Cour: Other: FedEx: UPS: Lab Cour: Other:

Blue Ice Wet Dry None Lab 1330

BP LaMP Soil/H2O COC July 2018

bp rm

Laboratory Management Program (LaMP) Chain of Custody Record

Soil, Sediment and Groundwater Samples

BP Site Node Path: Former BP 11060 **Req Due Date (mm/dd/yy):** Standard TAT Rush TAT Yes ____ No X

BP/RM Facility No: Former BP Facility No. 11060 **Lab Work Order Number:**

Lab Name:	Test America	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:	
Lab PM:	Elaine Walker	Lead Regulatory Agency:	Washington State Department of Ecology	Address:	4006 148th Ave NE, Redmond, WA 98052
Lab Phone:	253.248.4972	California Global ID No.:	NA	Consultant/Contractor PM:	Megan Richard
Lab Shipping Accnt:		Enfos Proposal No:	WR851166/00C22-0002	Phone: 425-498-7711 Email:	Megan.Richard@anteagroup.us
Lab Bottle Order No:		Accounting Mode:	Provision __X___ OOC-BU _____ OOC-RM _____	Send/Submit EDD to:	Megan.Richard@anteagroup.us
Other Info:	M.Elaine.Walker@Eurofinset.com	Stage	2_Select (20) Activity Additional Data Collection (100)	Invoice To:	BP-RM _____ BP/ARC ___X____
BP/RM PM:	Wade Melton				
PM Phone:	360-594-7978				
PM Email:	wade.melton@bp.com				

Lab No.	Sample Description	Date	Time	Field Matrix	Start Depth	End Depth	Depth Unit	Grab (G) or Composite (C)	Total Number of Containers	Filt	Pres	Analysis	BTEX by EPA 8260	MTBE by EPA 8260	NWTPH-Gx	NWTPH-Dx	Pb-T by EPA 6020	Pb-D by EPA 6020	EDB by EPA 8011	PAHs	Select VOCs by EPA 8260	Comments
	MW-9-20211207	12/7/21	1605	W				G	12				X	X	X	X	X	X		X	X	
7	MW-11-20211207	12/7/21	1305	W				G	12				X	X	X	X	X	X		X	X	
	MW-12-20211207	12/7/21	1410	W				G	12				X	X	X	X	X	X		X	X	
	~~Dup-1~~			~~W~~				~~G~~					X	X	X	X	X	X		X	X	SH
9	Trip Blank-20211207	12/7/21	0000	W				G	2				X		X							

Report Type & QC Level: Limited (Standard) Package ____ Limited Plus Package ____ Full Package ____

Sampler's Name:	Nathan Han/Samantha Hintze	**Relinquished By / Affiliation**	**Date**	**Time**	**Accepted By / Affiliation** / **Date** / **Time**
Sampler's Company:	Antea Group	[signature] /Antea	12/8/21	1210	[signature] 12/8/21 1210
Ship Method:	Courier Ship Date: 12/8/21				
Shipment Tracking No:					

Special Instructions (select VOCs by EPA 8260 analysis for the following): (1) 1-3-Butadiene (2) Chloroform (3) Ethanol (4) Hexane (5) Vinyl Chloride (6) 1,1-DCE (7) Cis-1,2-DCE (8) Trans-1,2 Dichloroethene (9) 1,1,2-trichloroethane (10) TCE (11) PCE

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

BP LaMP Soil/H2O COC July 2018

580-108197 Chain of Custody

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

BP Site Node Path:	Former BP 11060	**Req Due Date (mm/dd/yy):**	Standard TAT
		Rush TAT Yes ____	No X
BP/RM Facility No:	Former BP Facility No. 11060	**Lab Work Order Number:**	

Lab Name:	Test America	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:	
Lab PM:	Elaine Walker	Lead Regulatory Agency:	Washington State Department of Ecology	Address:	4006 148th Ave NE, Redmond, WA 98052
Lab Phone:	253.248.4972	California Global ID No.:	NA	Consultant/Contractor PM:	Megan Richard
Lab Shipping Accnt:		Enfos Proposal No:	WR851166/00C22-0002	Phone: 425-498-7711	Email: Megan.Richard@anteagroup.us
Lab Bottle Order No:		Accounting Mode:	Provision _X_ OOC-BU ____ OOC-RM ____	Send/Submit EDD to:	Megan.Richard@anteagroup.us
Other Info:	M.Elaine.Walker@Eurofinset.com	Stage	2_Select (20) Activity: Additional Data Collection (100)	Invoice To:	BP-RM ____ BP/ARC _X_
BP/RM PM:	Wade Melton				
PM Phone:	360--594-7978				
PM Email:	wade.melton@bp.com				

Report Type & QC Level: Limited (Standard) Package ____ Limited Plus Package ____ Full Package ____

Lab No.	Sample Description	Date	Time	Field Matrix	Start Depth	End Depth	Depth Unit	Grab (G) or Composite (C)	Total Number of Containers	Analysis	BTEX by EPA 8260	MTBE by EPA 8260	NWTPH-Gx	NWTPH-Dx	Pb-T by EPA 6020	Pb-D by EPA 6020	EDB by EPA 8011	PAHs	Select VOCs by EPA 8260	Comments
1	GWM-1_20211207	12/7/21	1505	W				G	12		X	X	X	X	X	X		X	X	
	~~MW-1~~			~~W~~				~~G~~			~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		~~X~~	~~X~~	SH
	MW-2_20211207	12/7/21	0845	W				G	12		X	X	X	X	X	X		X	X	
3	MW-3_20211207	12/7/21	1040	W				G	12		X	X	X	X	X	X		X	X	
	MW-4_20211207	12/7/21	1140	W				G	12		X	X	X	X	X	X		X	X	
	~~MW-5~~			~~W~~				~~G~~			~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		~~X~~	~~X~~	SH
5	MW-6_20211207	12/7/21	0940	W				G	12		X	X	X	X	X	X		X	X	

	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name: Nathan Han / Samantha Hinze	[signature] / Antea	12/8/21	1210	[signature]	12/8/21	1210
Sampler's Company: Antea Group						
Ship Method: Courier Ship Date: 12/8/21						
Shipment Tracking No:						

Special Instructions (select VOCs by EPA 8260 analysis for the following): (1) 1-3-Butadiene (2) Chloroform (3) Ethanol (4) Hexane (5) Vinyl Chloride (6) 1,1-DCE (7) Cis-1,2-DCE (8) Trans-1,2 Dichloroethene (9) 1,1,2-trichloroethane (10) TCE (11) PCE

THIS LINE - LAB USE ONLY: Custody Seals ... Cooler Temp ... MS/MSD Sample Submitted: Yes / No

BP LaMP Soil/H2O COC July 2018

Therm. ID: IR8 Cor: 1.6° Unc: 1.9
Cooler Dsc: LB
Packing: Bub
Cust. Seal: Yes ✓ No ____
Blue Ice, Wet, Dry, None
FedEx: ____
UPS: ____
Lab Cour: ✓
Other: ____
@lab 1330

Therm. ID: IR8 Cor: 1.3° Unc: 1.6
Cooler Dsc: LB
Packing: Bub
Cust. Seal: Yes ✓ No ____
Blue Ice, Wet, Dry, None
FedEx: ____
UPS: ____
Lab Cour: ✓
Other: ____

Laboratory Management Program (LaMP) Chain of Custody Record

Soil, Sediment and Groundwater Samples

BP Site Node Path: Former BP 11060 **Req Due Date (mm/dd/yy):** Standard TAT Rush TAT Yes ____ No X

BP/RM Facility No: Former BP Facility No. 11060 **Lab Work Order Number:**

Lab Name:	Test America	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:	
Lab PM:	Elaine Walker	Lead Regulatory Agency:	Washington State Department of Ecology	Address:	4006 148th Ave NE, Redmond, WA 98052
Lab Phone:	253.248.4972	California Global ID No.:	NA	Consultant/Contractor PM:	Megan Richard
Lab Shipping Accnt:		Enfos Proposal No:	WR851166/00C22-0002	Phone: 425-498-7711 Email:	Megan.Richard@anteagroup.us
Lab Bottle Order No:		Accounting Mode:	Provision __X__ OOC-BU _____ OOC-RM _____	Send/Submit EDD to:	Megan.Richard@anteagroup.us
Other Info:	M.Elaine.Walker@Eurofinset.com	Stage	2_Select (20) Activity Additional Data Collection (100)	Invoice To:	BP-RM _____ BP/ARC __X__
BP/RM PM:	Wade Melton				
PM Phone:	360--594-7978				
PM Email:	wade.melton@bp.com				

Report Type & QC Level: Limited (Standard) Package ____ Limited Plus Package ____ Full Package ____

Lab No.	Sample Description	Date	Time	Field Matrix	Start Depth	End Depth	Depth Unit	Grab (G) or Composite (C)	Total Number of Containers	Filt	Pres	Analysis	BTEX by EPA 8260	MTBE by EPA 8260	NWTPH-Gx	NWTPH-Dx	Pb-T by EPA 6020	Pb-D by EPA 6020	EDB by EPA 8011	PAHs	Select VOCs by EPA 8260	Comments
	MW-9_20211207	12/7/21	1605	W				G	12				X	X	X	X	X	X		X	X	
7	MW-11_20211207	12/7/21	1305	W				G	12				X	X	X	X	X	X		X	X	
	MW-12_20211207	12/7/21	1410	W				G	12				X	X	X	X	X	X		X	X	
~~—~~	~~Dup-1~~			~~W~~				~~G~~					X	X	X	X	X	X		X	X	
9	Trip Blank_20211207	12/7/21	0000	W				G	2				X		X							

SH

Sampler's Name:	Nathan Han/Samantha Hintze	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company:	Antea Group	[signature] /Antea	12/8/21	1210	[signature]	12/8/21	1210
Ship Method:	Courier Ship Date: 12/8/21						
Shipment Tracking No:							

Special Instructions (select VOCs by EPA 8260 analysis for the following): (1) 1-3-Butadiene (2) Chloroform (3) Ethanol (4) Hexane (5) Vinyl Chloride (6) 1,1-DCE (7) Cis-1,2-DCE (8) Trans-1,2 Dichloroethene (9) 1,1.2-trichloroethane (10) TCE (11) PCE

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

BP LaMP Soil/H2O COC July 2018

Login Sample Receipt Checklist

Client: Antea USA Inc.

Job Number: 580-108197-1

Login Number: 108197
List Number: 1
Creator: Presley, Kim A

List Source: Eurofins FGS, Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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 <6mm (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 FGS, Seattle Job No.: 580-108197-1

SDG No.:

Batch Number: 376123 Batch Start Date: 12/16/21 23:47 Batch Analyst: Mautz, Brady 1

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	5X SUR/IS 00003	VOAMasterMix 00070	VOASTDGASweek 00078
LCS 580-376123/10		8260D		5 mL	5 mL		1 uL	10 uL	10 uL
LCSD 580-376123/11		8260D		5 mL	5 mL		1 uL	10 uL	10 uL
MB 580-376123/13		8260D		5 mL	5 mL		1 uL		
580-108197-G-1	GWM-1_20211207	8260D	T	5 mL	5 mL	<2 SU	1 uL		
580-108197-G-2	MW-2_20211207	8260D	T	5 mL	5 mL	<2 SU	1 uL		
580-108197-G-3	MW-3_20211207	8260D	T	5 mL	5 mL	<2 SU	1 uL		
580-108197-G-5	MW-6_20211207	8260D	T	5 mL	5 mL	<2 SU	1 uL		
580-108197-G-6	MW-9_20211207	8260D	T	5 mL	5 mL	<2 SU	1 uL		
580-108197-G-7	MW-11_20211207	8260D	T	5 mL	5 mL	<2 SU	1 uL		
580-108197-G-8	MW-12_20211207	8260D	T	5 mL	5 mL	<2 SU	1 uL		
580-108197-G-9	Trip Blanks_20211207	8260D	T	5 mL	5 mL	<2 SU	1 uL		

Batch Notes	
pH Indicator ID	6003004
Vial Lot Number	0204201G

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 FGS, Seattle Job No.: 580-108197-1

SDG No.:

Batch Number: 376510 Batch Start Date: 12/21/21 12:50 Batch Analyst: Wongsakul, Thanaporn 1

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	5X SUR/IS 00003	VOAMasterMix 00070	VOASTDGASweek 00078
LCS 580-376510/4		8260D		5 mL	5 mL		1 uL	10 uL	10 uL
LCSD 580-376510/5		8260D		5 mL	5 mL		1 uL	10 uL	10 uL
MB 580-376510/7		8260D		5 mL	5 mL		1 uL		
580-108197-H-4	MW-4_20211207	8260D	T	5 mL	5 mL	<2 SU	1 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 VOA BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-108197-1

SDG No.:

Batch Number: 376631 Batch Start Date: 12/22/21 11:48 Batch Analyst: Mautz, Brady 1

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	5X SUR/IS 00003	VOAMasterMix 00070	VOASTDGASweek 00078
LCS 580-376631/4		8260D		5 mL	5 mL		1 uL	10 uL	10 uL
LCSD 580-376631/5		8260D		5 mL	5 mL		1 uL	10 uL	10 uL
MB 580-376631/7		8260D		5 mL	5 mL		1 uL		
580-108197-A-4	MW-4_20211207	8260D	T	5 mL	5 mL	<2 SU	1 uL		

Batch Notes	
pH Indicator ID	6003004
Vial Lot Number	0204201G

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 FGS, Seattle Job No.: 580-108197-1

SDG No.:

Batch Number: 375527 Batch Start Date: 12/10/21 10:36 Batch Analyst: Enrico, Michael 1

Batch Method: 3510C Batch End Date: 12/10/21 19:19

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 580-375527/1		3510C, 8270E SIM				250 mL	1 mL	7 SU	2 SU
LCS 580-375527/2		3510C, 8270E SIM				250 mL	1 mL	7 SU	2 SU
LCSD 580-375527/3		3510C, 8270E SIM				250 mL	1 mL	7 SU	2 SU
580-108197-A-1	GWM-1_20211207	3510C, 8270E SIM	T	00403.60 g	00168.47 g	235.1 mL	1 mL	7 SU	2 SU
580-108197-A-2	MW-2_20211207	3510C, 8270E SIM	T	00409.06 g	00168.25 g	240.8 mL	1 mL	7 SU	2 SU
580-108197-A-3	MW-3_20211207	3510C, 8270E SIM	T	00410.96 g	00168.11 g	242.9 mL	1 mL	7 SU	2 SU
580-108197-B-4	MW-4_20211207	3510C, 8270E SIM	T	00402.47 g	00168.40 g	234.1 mL	1 mL	7 SU	2 SU
580-108197-B-5	MW-6_20211207	3510C, 8270E SIM	T	00411.13 g	00168.38 g	242.8 mL	1 mL	7 SU	2 SU
580-108197-B-6	MW-9_20211207	3510C, 8270E SIM	T	00408.54 g	00168.29 g	240.3 mL	1 mL	7 SU	2 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	8270flspk 00293	8270waterSurr 00114			
MB 580-375527/1		3510C, 8270E SIM		n/a SU		100 uL			
LCS 580-375527/2		3510C, 8270E SIM		n/a SU	50 uL	100 uL			
LCSD 580-375527/3		3510C, 8270E SIM		n/a SU	50 uL	100 uL			
580-108197-A-1	GWM-1_20211207	3510C, 8270E SIM	T	n/a SU		100 uL			
580-108197-A-2	MW-2_20211207	3510C, 8270E SIM	T	n/a SU		100 uL			
580-108197-A-3	MW-3_20211207	3510C, 8270E SIM	T	n/a SU		100 uL			
580-108197-B-4	MW-4_20211207	3510C, 8270E SIM	T	n/a SU		100 uL			
580-108197-B-5	MW-6_20211207	3510C, 8270E SIM	T	n/a SU		100 uL			
580-108197-B-6	MW-9_20211207	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.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-108197-1

SDG No.:

Batch Number: 375527 Batch Start Date: 12/10/21 10:36 Batch Analyst: Enrico, Michael 1

Batch Method: 3510C Batch End Date: 12/10/21 19:19

Batch Notes	
Method/Fraction	3510C_LVI / 8270E_SIM
Balance ID	SEA225
pH Indicator ID	6003005/6003004
Pipette/Syringe/Dispenser ID	mp4/ E4
Analyst ID - Extraction	MAE
Reagent Water ID	DI
Analyst ID - Spike Analyst	RJL
Analyst ID - Spike Witness Analyst	MAE
Sufficient Volume for Batch QC	no
Acid Used for pH Adjustment ID	2815022
Prep Solvent ID	3030912
Prep Solvent Volume Used	150 mL
Filter ID	2815023
Na2SO4 ID	2400384
Analyst ID - Concentration	MAE
Equipment ID - Concentration 1	Steambath 2
Thermometer ID - Concentration 1	661200
Concentration 1 Uncorrected Temperature	70.0-75.0 Degrees C
Concentration 1 Corrected Temperature	70.0-75.0 Degrees C
Equipment ID - Concentration 2	Turbovap 6
Thermometer ID - Concentration 2	DIGITALREADOUT
Concentration 2 Uncorrected Temperature	20 Degrees C
Concentration 2 Corrected Temperature	16.1 Degrees C
Vial Lot Number	24162054
Batch Comment	Vialed by: MAE

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 FGS, Seattle Job No.: 580-108197-1

SDG No.:

Batch Number: 375746 Batch Start Date: 12/14/21 09:00 Batch Analyst: Enrico, Michael 1

Batch Method: 3510C Batch End Date: 12/14/21 13:50

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 580-375746/1		3510C, 8270E SIM				250 mL	1 mL	7 SU	2 SU
LCS 580-375746/2		3510C, 8270E SIM				250 mL	1 mL	7 SU	2 SU
LCSD 580-375746/3		3510C, 8270E SIM				250 mL	1 mL	7 SU	2 SU
580-108197-B-7	MW-11_20211207	3510C, 8270E SIM	T	00405.28 g	00167.19 g	238.1 mL	1 mL	7 SU	2 SU
580-108197-B-8	MW-12_20211207	3510C, 8270E SIM	T	00417.84 g	00167.98 g	249.9 mL	1 mL	7 SU	2 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	8270flspk 00293	8270waterSurr 00114			
MB 580-375746/1		3510C, 8270E SIM		n/a SU		100 uL			
LCS 580-375746/2		3510C, 8270E SIM		n/a SU	50 uL	100 uL			
LCSD 580-375746/3		3510C, 8270E SIM		n/a SU	50 uL	100 uL			
580-108197-B-7	MW-11_20211207	3510C, 8270E SIM	T	n/a SU		100 uL			
580-108197-B-8	MW-12_20211207	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.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-108197-1

SDG No.:

Batch Number: 375746 Batch Start Date: 12/14/21 09:00 Batch Analyst: Enrico, Michael 1

Batch Method: 3510C Batch End Date: 12/14/21 13:50

Batch Notes	
Method/Fraction	3510C_LVI / 8270E_SIM
Balance ID	SEA225
pH Indicator ID	6911002 / 6003004
Pipette/Syringe/Dispenser ID	MP4/ E4
Analyst ID - Extraction	JHR/MAE
Reagent Water ID	DI
Analyst ID - Spike Analyst	MAE
Analyst ID - Spike Witness Analyst	JHR
Sufficient Volume for Batch QC	no
Acid Used for pH Adjustment ID	2930180
Prep Solvent ID	3030922
Prep Solvent Volume Used	150 mL
Filter ID	3022575
Na2SO4 ID	3019520
Analyst ID - Concentration	JHR
Equipment ID - Concentration 1	Steambath 1
Thermometer ID - Concentration 1	661200
Concentration 1 Uncorrected Temperature	70.0-75.0 Degrees C
Concentration 1 Corrected Temperature	70.3-75.3 Degrees C
Equipment ID - Concentration 2	Turbovap 5
Thermometer ID - Concentration 2	DIGITALREADOUT
Concentration 2 Uncorrected Temperature	20.0 Degrees C
Concentration 2 Corrected Temperature	18.2 Degrees C
Vial Lot Number	24162054
Batch Comment	Vialed by: JHR

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 VOA BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-108197-1

SDG No.:

Batch Number: 375594 Batch Start Date: 12/11/21 00:44 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	BFBGRO ARCHON 00048	GRO_LCS 00070	
MB 580-375594/3		NWTPH-Gx		5 mL	5 mL		1 uL		
LCS 580-375594/4		NWTPH-Gx		5 mL	5 mL		1 uL	25 uL	
LCSD 580-375594/5		NWTPH-Gx		5 mL	5 mL		1 uL	25 uL	
580-108197-G-9	Trip Blanks 20211207	NWTPH-Gx	T	5 mL	5 mL	<2 SU	1 uL		
580-108197-G-1	GWM-1_20211207	NWTPH-Gx	T	5 mL	5 mL	<2 SU	1 uL		
580-108197-G-2	MW-2_20211207	NWTPH-Gx	T	5 mL	5 mL	<2 SU	1 uL		
580-108197-G-3	MW-3_20211207	NWTPH-Gx	T	5 mL	5 mL	<2 SU	1 uL		
580-108197-G-4	MW-4_20211207	NWTPH-Gx	T	5 mL	5 mL	<2 SU	1 uL		
580-108197-G-5	MW-6_20211207	NWTPH-Gx	T	5 mL	5 mL	<2 SU	1 uL		
580-108197-G-6	MW-9_20211207	NWTPH-Gx	T	5 mL	5 mL	<2 SU	1 uL		
580-108197-G-7	MW-11_20211207	NWTPH-Gx	T	5 mL	5 mL	<2 SU	1 uL		
580-108197-G-8	MW-12_20211207	NWTPH-Gx	T	5 mL	5 mL	<2 SU	1 uL		

Batch Notes	
pH Indicator ID	6908005
Vial Lot Number	0204201g

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 SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-108197-1

SDG No.:

Batch Number: 376184 Batch Start Date: 12/17/21 10:45 Batch Analyst: Enrico, Michael 1

Batch Method: 3510C Batch End Date: 12/17/21 16:13

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 580-376184/1		3510C, NWTPH-Dx				250 mL	2 mL	7 SU	2 SU
LCS 580-376184/2		3510C, NWTPH-Dx				250 mL	2 mL	7 SU	2 SU
LCSD 580-376184/3		3510C, NWTPH-Dx				250 mL	2 mL	7 SU	2 SU
580-108197-D-1	GWM-1_20211207	3510C, NWTPH-Dx	T	00414.85 g	00168.88 g	246 mL	2 mL	2 SU	2 SU
580-108197-C-2	MW-2_20211207	3510C, NWTPH-Dx	T	00405.99 g	00169.45 g	236.5 mL	2 mL	2 SU	2 SU
580-108197-D-3	MW-3_20211207	3510C, NWTPH-Dx	T	00410.26 g	00168.68 g	241.6 mL	2 mL	2 SU	2 SU
580-108197-D-4	MW-4_20211207	3510C, NWTPH-Dx	T	00410.80 g	00168.99 g	241.8 mL	2 mL	2 SU	2 SU
580-108197-C-5	MW-6_20211207	3510C, NWTPH-Dx	T	00414.27 g	00167.26 g	247 mL	2 mL	2 SU	2 SU
580-108197-D-6	MW-9_20211207	3510C, NWTPH-Dx	T	00413.64 g	00168.86 g	244.8 mL	2 mL	2 SU	2 SU
580-108197-D-7	MW-11_20211207	3510C, NWTPH-Dx	T	00406.68 g	00168.78 g	237.9 mL	2 mL	2 SU	2 SU
580-108197-D-8	MW-12_20211207	3510C, NWTPH-Dx	T	00411.36 g	00168.73 g	242.6 mL	2 mL	2 SU	2 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	TPH_Water_Spk 00031	TPH_WaterSurr 00076			
MB 580-376184/1		3510C, NWTPH-Dx		n/a SU		100 uL			
LCS 580-376184/2		3510C, NWTPH-Dx		n/a SU	100 uL	100 uL			
LCSD 580-376184/3		3510C, NWTPH-Dx		n/a SU	100 uL	100 uL			
580-108197-D-1	GWM-1_20211207	3510C, NWTPH-Dx	T	n/a SU		100 uL			
580-108197-C-2	MW-2_20211207	3510C, NWTPH-Dx	T	n/a SU		100 uL			
580-108197-D-3	MW-3_20211207	3510C, NWTPH-Dx	T	n/a SU		100 uL			
580-108197-D-4	MW-4_20211207	3510C, NWTPH-Dx	T	n/a SU		100 uL			
580-108197-C-5	MW-6_20211207	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.

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-108197-1

SDG No.:

Batch Number: 376184 Batch Start Date: 12/17/21 10:45 Batch Analyst: Enrico, Michael 1

Batch Method: 3510C Batch End Date: 12/17/21 16:13

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	TPH_Water_Spk 00031	TPH_WaterSurr 00076			
580-108197-D-6	MW-9_20211207	3510C, NWTPH-Dx	T	n/a SU		100 uL			
580-108197-D-7	MW-11_20211207	3510C, NWTPH-Dx	T	n/a SU		100 uL			
580-108197-D-8	MW-12_20211207	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.

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-108197-1

SDG No.:

Batch Number: 376184 Batch Start Date: 12/17/21 10:45 Batch Analyst: Enrico, Michael 1

Batch Method: 3510C Batch End Date: 12/17/21 16:13

Batch Notes	
Method/Fraction	3510C_LVI / NWTPH
Balance ID	SEA225
pH Indicator ID	6003005/ 6003004
Pipette/Syringe/Dispenser ID	MP4
Analyst ID - Extraction	JHR/MAE
Reagent Water ID	DI
Analyst ID - Spike Analyst	MAE
Analyst ID - Spike Witness Analyst	JHR
Sufficient Volume for Batch QC	no
Acid Used for pH Adjustment ID	2930180
Prep Solvent ID	3030922
Prep Solvent Volume Used	100 mL
Filter ID	3022575
Na2SO4 ID	3019520
Analyst ID - Concentration	JHR
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	70.3-75.3 Degrees C
Equipment ID - Concentration 2	Turbovap5
Thermometer ID - Concentration 2	DIGITALREADOUT
Concentration 2 Uncorrected Temperature	20 Degrees C
Concentration 2 Corrected Temperature	18.2 Degrees C
Vial Lot Number	24160364
Analyst ID - Clean Up	MAE
Silica Gel ID	3018965
Batch Comment	Vialed by: JHR/MAE

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.

METALS BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-108197-1

SDG No.:

Batch Number: 375900 Batch Start Date: 12/15/21 09:23 Batch Analyst: Pineda, Abigail B

Batch Method: FILTRATION Batch End Date: 12/15/21 10:05

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount				
580-108197-F-1	GWM-1_20211207	FILTRATION, 3005A, 6020B	D	250 mL	250 mL				
580-108197-F-2	MW-2_20211207	FILTRATION, 3005A, 6020B	D	250 mL	250 mL				
580-108197-F-3	MW-3_20211207	FILTRATION, 3005A, 6020B	D	250 mL	250 mL				
580-108197-F-4	MW-4_20211207	FILTRATION, 3005A, 6020B	D	250 mL	250 mL				
580-108197-F-6	MW-9_20211207	FILTRATION, 3005A, 6020B	D	250 mL	250 mL				
580-108197-F-5	MW-6_20211207	FILTRATION, 3005A, 6020B	D	250 mL	250 mL				
580-108197-F-7	MW-11_20211207	FILTRATION, 3005A, 6020B	D	250 mL	250 mL				
580-108197-F-8	MW-12_20211207	FILTRATION, 3005A, 6020B	D	250 mL	250 mL				
MB 580-375900/16		FILTRATION, 3005A, 6020B		250 mL	250 mL				
LCS 580-375900/17		FILTRATION, 3005A, 6020B		250 mL	250 mL				
LCSD 580-375900/18		FILTRATION, 3005A, 6020B		250 mL	250 mL				

Batch Notes	
Filter ID	1330812
Nitric Acid ID	3007338

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.

METALS BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-108197-1

SDG No.:

Batch Number: 376059 Batch Start Date: 12/16/21 11:22 Batch Analyst: Pineda, Abigail B

Batch Method: 3005A Batch End Date: 12/16/21 15:55

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ICP CAL 1 00016	ICP CAL 2 00015	MET Spike 3C 00033	
580-108197-F-1-A	GWM-1_20211207	3005A, 6020B	D	50 mL	50 mL				
580-108197-F-1-A DU	GWM-1_20211207	3005A, 6020B	D	50 mL	50 mL				
580-108197-F-1-A MS	GWM-1_20211207	3005A, 6020B	D	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
580-108197-F-1-A MSD	GWM-1_20211207	3005A, 6020B	D	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
580-108197-F-2-A	MW-2_20211207	3005A, 6020B	D	50 mL	50 mL				
580-108197-F-3-A	MW-3_20211207	3005A, 6020B	D	50 mL	50 mL				
580-108197-F-4-A	MW-4_20211207	3005A, 6020B	D	50 mL	50 mL				
580-108197-F-5-A	MW-6_20211207	3005A, 6020B	D	50 mL	50 mL				
580-108197-F-6-A	MW-9_20211207	3005A, 6020B	D	50 mL	50 mL				
580-108197-F-7-A	MW-11_20211207	3005A, 6020B	D	50 mL	50 mL				
580-108197-F-8-A	MW-12_20211207	3005A, 6020B	D	50 mL	50 mL				
MB 580-375900/16-A		3005A, 6020B		50 mL	50 mL				
LCS 580-375900/17-A		3005A, 6020B		50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
LCSD 580-375900/18-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.

METALS BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-108197-1

SDG No.:

Batch Number: 376059 Batch Start Date: 12/16/21 11:22 Batch Analyst: Pineda, Abigail B

Batch Method: 3005A Batch End Date: 12/16/21 15:55

Batch Notes	
Digestion Tube/Cup ID	2953186
Pipette/Syringe/Dispenser ID	metals prep 2
Analyst ID - Spike Analyst	AP
Sufficient Volume for Batch QC	YES
Hydrochloric Acid ID	3006704
Nitric Acid ID	3007338
Digestion Unit ID	BLOCK E
Thermometer ID	700396
Thermometer Location ID	E43
Temperature - Uncorrected - Start	93.0 Degrees C
Temperature - Corrected - Start	93.1 Degrees C
Digestion Start Time	12/16/2021 11:55
Digestion End Time	12/15/2021 15:55
Temperature - Uncorrected - End	93.0 Degrees C
Temperature - Corrected - End	93.1 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.

METALS BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-108197-1

SDG No.:

Batch Number: 376280 Batch Start Date: 12/17/21 19:06 Batch Analyst: Pineda, Abigail B

Batch Method: 3005A Batch End Date: 12/18/21 00:31

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ICP CAL 1 00017	ICP CAL 2 00015	MET Spike 3C 00034	
580-108197-E-1	GWM-1_20211207	3005A, 6020B	R	50 mL	50 mL				
580-108197-E-2	MW-2_20211207	3005A, 6020B	R	50 mL	50 mL				
580-108197-E-3	MW-3_20211207	3005A, 6020B	R	50 mL	50 mL				
580-108197-E-4	MW-4_20211207	3005A, 6020B	R	50 mL	50 mL				
580-108197-E-5	MW-6_20211207	3005A, 6020B	R	50 mL	50 mL				
580-108197-E-6	MW-9_20211207	3005A, 6020B	R	50 mL	50 mL				
580-108197-E-7	MW-11_20211207	3005A, 6020B	R	50 mL	50 mL				
580-108197-E-8	MW-12_20211207	3005A, 6020B	R	50 mL	50 mL				
MB 580-376280/20		3005A, 6020B		50 mL	50 mL				
LCS 580-376280/21		3005A, 6020B		50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	
LCSD 580-376280/22		3005A, 6020B		50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	

Batch Notes	
Digestion Tube/Cup ID	2953186
Pipette/Syringe/Dispenser ID	metals prep 2
Analyst ID - Spike Analyst	AP
Sufficient Volume for Batch QC	YES
Hydrochloric Acid ID	2981741
Nitric Acid ID	3033185
Digestion Unit ID	BLOCK B
Thermometer ID	698320
Thermometer Location ID	B20
Temperature - Uncorrected - Start	93.0 Degrees C
Temperature - Corrected - Start	93.7 Degrees C
Digestion Start Time	12/17/2021 20:31
Digestion End Time	12/18/2021 00:31
Temperature - Uncorrected - End	93.0 Degrees C
Temperature - Corrected - End	93.7 Degrees C

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.

METALS BATCH WORKSHEET

Lab Name: Eurofins FGS, Seattle Job No.: 580-108197-1

SDG No.:

Batch Number: 376280 Batch Start Date: 12/17/21 19:06 Batch Analyst: Pineda, Abigail B

Batch Method: 3005A Batch End Date: 12/18/21 00:31

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.