



Remediation Management Services Company

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June 30, 2022

Mr. Kyle Parker
Washington State Department of Ecology
Central Regional Office
1250 West Alder Street Union Gap
WA 98903-0009

Subject: **Manhole 34 Facility (Consent Decree # 042014670) - 2021 Annual Site Status Report**
600-604 and 601 Yakima Valley Highway
Sunnyside, Washington 98944

Dear Mr. Parker:

Remediation Management Services Company (RMSC) is pleased to submit this *2021 Annual Site Status Report* to document site activities conducted at the Manhole 34 Facility (site) in 2021. Work was completed in accordance to the 2004 Consent Decree and Cleanup Action Plan (CAP) [2001, Washington State Department of Ecology] (WDOE) unless otherwise noted. Results and findings from work completed at the site are summarized below and in the attached data tables and figures.

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document are true and correct to the best of my knowledge at the present time. If you have any questions or comments regarding the contents of this report, please contact the Parsons representative Cynthia Oppenheimer at 925.324.4895 or by email at Cynthia.Oppenheimer@parsons.com or myself at 331.236.1391 or by my email at John.Frankenthal@bp.com.

Sincerely,

A handwritten signature in dark ink, appearing to read 'Frankenthal', with a long horizontal line extending to the right.

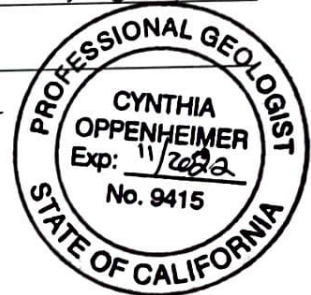
John A. Frankenthal
Liability Manager
Remediation Management Services Company
An affiliate of ARCO

**2021 ANNUAL SITE STATUS REPORT
MANHOLE 34 FACILITY**

Station No: MH-34 Address: 600-604 and 601 Yakima Valley Highway

Parsons Contact/Phone No. Cynthia Oppenheimer / 925.324.4895

Cynthia Oppenheimer



Primary Agency/Regulatory ID No.: WDOE/Consent Decree #042014670

Current Site Use: Retail Gas Station, Commercial and Vacant Lot

2021 GROUNDWATER MONITORING SUMMARY:

Sample Methodology:

First Quarter: Low Flow Purge and Sample
Sample Second Quarter: No Event Conducted
Third Quarter: Low Flow Purge and Sample
Fourth Quarter: No Event Conducted

Non-aqueous Phase Liquid Present at Site: Yes (thicknesses listed below)

First Quarter: 0.03 foot (MW-03) and 0.07 foot (MW-04) – 3/8/2021
Third Quarter: 2.20 foot (MW-10) – 9/28/2021

Site Constituents of Concern above Model Toxics Control Act Method A Cleanup Levels during reporting period:

Total Petroleum Hydrocarbons (TPH) as Gasoline Range Organics:

- **First Quarter (Q1)** – DMW-2, DMW-4, DMW-5, MW-02, MW-10, MW-11, MW-30, MW-31, MW-32, MW-33, and MW-40
- **Third Quarter (Q3)** – DMW-4, MW-04, MW-10, MW-11, MW-30, MW-31, MW-33, MW-40, and MW-42

TPH as Diesel Range Organics (DRO):

- **Q1** – DMW-5, MW-10, MW-11, MW-30, MW-31, MW-33, MH-34 and MW-40
- **Q3** – DMW-5, MW-04, MW-11, MW-30, and MW-42

TPH as Heavy Oil Range Organics (HO):

- **Q1** – DMW-5, MW-11, MW-20, MW-30, MW-31, MW-33, and MH-34
- **Q3** – MW-30

Benzene:

- **Q1** – DMW-4, DMW-5, MW-02, MW-10, MW-11, MW-30, MW-31, MW-33, MH-34, MW-39, and MW-40
- **Q3** – DMW-4, DMW-5, MW-04, MW-10, MW-11, MW-30, MW-31, MH-34, MW-39, and MW-40

Toluene:

- **Q1** – None
- **Q3** – MW-04

Ethylbenzene:

- **Q1** – DMW-5
- **Q3** – DMW-5, MW-04, MW-30, and MW-42

Total Xylenes:

- **Q1** – DMW-5
- **Q3** – DMW-5, MW-04, and MW-42

Observed Depth to Water per Event:

First Quarter: 5.45 (MW-29) to 9.34 (MW-27) feet below top of casing (btoc) – 3/8/2021

Third Quarter: 5.73 (MW-33) to 9.54 (MW-27) feet btoc – 9/29/2021

Groundwater Elevations and Flow Direction:

*Elevation range above North American Vertical Datum 1988 (NAVD 88)

<u>Event</u>	<u>Elevation Range</u>	<u>Interpreted Groundwater Flow Direction</u>
First Quarter:	737.99 (MW-27) to 743.84 (MW-16) feet	Southwest
Third Quarter:	737.76 (MW-20) to 743.39 (MW-08) feet	South-Southwest

Hydraulic Gradient per Event:

First Quarter : 0.02 feet/foot (FT/FT)

Third Quarter : 0.01 FT/FT

2021 - Additional Site Activities and Discussions

No additional work was completed at the Site in 2021.

Parsons proposes to continue with semi-annual sampling and annual reporting for the site for 2022. Additional discussions may occur based on current trends at the Site.

ATTACHMENTS

Table

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TABLE

Table 1
2021 Groundwater Gauging Data and Analytical Results
Manhole 34
Vicinity N. 6th St. Yakima Valley Hwy. Sunnyside, WA 98944
All analytical results are presented in micrograms per liter (µg/L)

Well	Date	Notes	TOC	DTW	NAPL	GWE	GRO	DRO	HO	Benzene	Toluene	Ethylbenzene	Total Xylenes
A1/VE-2	3/8/2021	(NS)	--	5.70	--	--	--	--	--	--	--	--	--
A1/VE-2	9/28/2021	(NS)	--	6.48	--	--	--	--	--	--	--	--	--
DMW-1	3/8/2021		748.41	6.23		742.18	--	--	--	--	--	--	--
DMW-1	9/28/2021		748.41	6.66		741.75	--	--	--	--	--	--	--
DMW-2	3/9/2021		748.08	7.00	0	741.08	87.7 B,J	<200	<250	0.317 B,J	<1.00	2.46	<3.00
DMW-2	9/29/2021		748.08	7.91	0	740.17	799	<400	<500	0.262 J	0.386 J	77.2	1.09 J
DMW-3	3/8/2021	(NS)	748.96	6.65	0	742.31	--	--	--	--	--	--	--
DMW-3	9/28/2021	(NS)	748.96	7.08	0	741.88	--	--	--	--	--	--	--
DMW-4	3/9/2021		749.28	6.10	0	743.18	1640	568	119 J	35.8	3.52	62.4	187
DMW-4	9/28/2021		749.28	6.42	0	742.86	3710	283	<250	5.29	1.41	381	94.70
DMW-5	3/10/2021		748.64	6.32	0	742.32	27,400	4,580	892	229	38.2	1,970	3,590
DMW-5	9/29/2021		748.64	6.77	0	741.87	NA	2,010	<500	110	19.3 J	1,080	2,630
DMW-6	3/8/2021	(NS)	748.57	6.43	0	742.14	--	--	--	--	--	--	--
DMW-6	9/28/2021	(NS)	748.57	6.87	0	741.70	--	--	--	--	--	--	--
MW-01	3/8/2021		749.78	6.41	0	743.37	<100	<200	152 J	<1.00	<1.00	<1.00	<3.00
MW-01	9/29/2021		749.78	6.81	0	742.97	87 B,J	<200	<250	<1.00	<1.00	<1.00	<3.00
MW-02	3/9/2021		749.22	6.19	0	743.03	837	354	259	8.69	0.443 J	4.1	12.9
MW-02	9/29/2021		749.22	6.55	0	742.67	500	<200	<250	0.271 J	<1.00	<1.00	1.87 J
MW-04	3/8/2021	(NS)	749.85	6.90	0.07	743.01	--	--	--	--	--	--	--
MW-04	9/29/2021		749.85	7.37	0	742.48	70700 Q	1820	<500	2190	3420	1210	7040
MW-08	3/9/2021		750.04	6.25	0	743.79	38.0 B,J	<200	<200	<1.00	<1.00	<1.00	<3.00
MW-08	9/29/2021		750.04	6.65	0	743.39	92 B,J	<200	<250	<1.00	<1.00	<1.00	<3.00
MW-09	3/9/2021	(NS)	748.25	6.33	0	741.92	--	--	--	--	--	--	--
MW-09	9/28/2021	(NS)	748.25	7.50	0	740.75	--	--	--	--	--	--	--
MW-10	9/28/2021		746.49	8.80	2.20	739.34	--	--	--	--	--	--	--
MW-10	3/9/2021		749.48	6.95	0	742.53	405 B	587	<250	17.9	<1.00	2.04	2.11 J
MW-10	9/28/2021		749.48	7.45	0	742.03	993	106 J	<250	13.6	0.467 J	49.4	45.2
MW-11	3/9/2021		748.53	6.78	0	741.75	11600	7490	5910	147	6.84	206	9.24
MW-11	9/29/2021		748.53	7.79	0	740.74	10100 Q	1300	<500	122	2.36 J	128	314
MW-12	3/9/2021		750.15	6.40	0	743.75	64.78 J	<200	<250	<1.00	<1.00	<1.00	0.359 J
MW-12	9/28/2021		750.15	7.79	0	742.36	45.2 B,J	<200	<250	<1.00	<1.00	<1.00	<3.00
MW-15	3/8/2021	(NS)	749.52	6.23	0	743.29	--	--	--	--	--	--	--
MW-15	9/28/2021	(NS)	749.52	7.67	0	741.85	--	--	--	--	--	--	--
MW-16	3/9/2021		750.94	7.10	0	743.84	<100	<200	102 J	<1.00	<1.00	<1.00	0.510 J
MW-16	9/28/2021		750.94	8.52	0	742.42	<100	<200	<250	<1.00	<1.00	<1.00	<3.00
MW-17	3/8/2021	(NS)	749.45	5.95	0	743.50	--	--	--	--	--	--	--
MW-17	9/28/2021	(NS)	749.45	6.34	0	743.11	--	--	--	--	--	--	--
MW-18	3/8/2021	(NS)	748.27	6.17	0	742.10	--	--	--	--	--	--	--
MW-18	9/28/2021	(NS)	748.27	6.32	0	741.95	--	--	--	--	--	--	--
MW-19	3/8/2021	(NS)	748.73	5.70	0	743.03	--	--	--	--	--	--	--
MW-19	9/28/2021	(NS)	748.73	5.98	0	742.75	--	--	--	--	--	--	--
MW-20	3/8/2021		746.78	8.65	0	738.13	90.4 B,J	141	903	<1.00	<1.00	<1.00	0.246 J
MW-20	9/28/2021		746.78	9.02	0	737.76	<100	72.2 J	298	<1.00	<1.00	<1.00	<3.00
MW-21	3/8/2021	(NS)	748.41	5.96	0	742.45	--	--	--	--	--	--	--
MW-21	9/28/2021	(NS)	748.41	6.40	0	742.01	--	--	--	--	--	--	--
MW-22	3/8/2021	(NS)	748.90	6.01	0	742.89	--	--	--	--	--	--	--
MW-22	9/28/2021	(NS)	748.90	6.41	0	742.49	--	--	--	--	--	--	--

Table 1
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Manhole 34
Vicinity N. 6th St. Yakima Valley Hwy. Sunnyside, WA 98944
All analytical results are presented in micrograms per liter (µg/L)

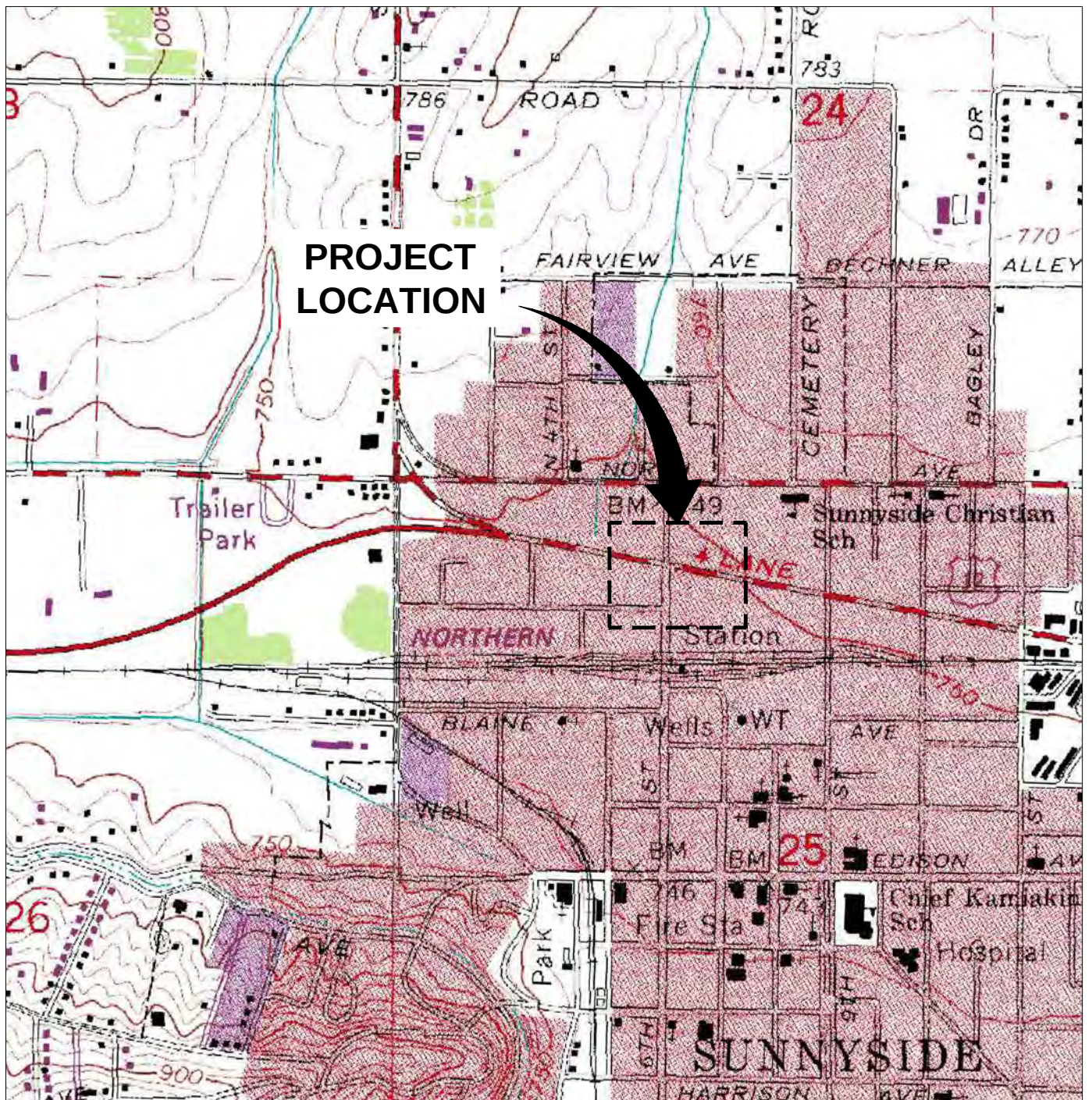
Well	Date	Notes	TOC	DTW	NAPL	GWE	GRO	DRO	HO	Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-23	3/8/2021	(NS)	749.17	6.02	0	743.15	--	--	--	--	--	--	--
MW-23	9/28/2021	(NS)	749.17	6.42	0	742.75	--	--	--	--	--	--	--
MW-24	3/8/2021	Unable to locate	748.16		0	--	--	--	--	--	--	--	--
MW-24	9/28/2021	Unable to locate	748.16		0	--	--	--	--	--	--	--	--
MW-25	3/9/2021		748.04	5.87	0	742.17	48.1 B,J	<200	124	<1.00	<1.00	<1.00	<3.00
MW-25	9/29/2021		748.04	6.28	0	741.76	<100	<200	<250	<1.00	<1.00	<1.00	<3.00
MW-26	3/8/2021	--	747.35	6.46	0	740.89		--	--	--	--	--	--
MW-26	9/28/2021	--	747.35	6.80	0	740.55		--	--	--	--	--	--
MW-27	3/10/2021		747.33	9.34	0	737.99	44.2 B,J	<200	<250	<1.00	<1.00	<1.00	<3.00
MW-27	9/29/2021		747.33	9.54	0	737.79	<100	<200	<250	<1.00	<1.00	<1.00	<3.00
MW-28	3/8/2021	Unable to access	747.39	--	--	--	--	--	--	--	--	--	--
MW-28	9/28/2021	Unable to access	747.39	--	--	--	--	--	--	--	--	--	--
MW-29	3/8/2021	--	746.79	5.45	0	741.34		--	--	--	--	--	--
MW-29	9/28/2021	--	746.79	7.53	0	739.26		--	--	--	--	--	--
MW-30	3/9/2021		749.48	6.80	0	742.68	12,600	5,230	1,820	597	43.1	603	859
MW-30	9/28/2021		749.48	7.20	0	742.28	14200 Q	1,580	<250	591	39.8	1,030	535
MH-31	3/8/2021		--	--	--	--	<100	<200	<250	0.356 J	<1.00	0.147 J	0.194 J
MH-31	9/29/2021		--	--	--	--	NA	<200	<250	0.745 J	<1.00	0.389 J	<3.00
MW-31	3/10/2021		748.05	5.97	0	742.08	2,550	1090	528	390	7.92	55.5	163
MW-31	9/29/2021		748.05	6.43	0	741.62	1860	184 J	<250	246	1.99	31.9	47
MH-32	3/9/2021		--	--	--	--	47.8 B,J	140 J	181 J	0.905 B,J	<1.00	0.284 J	0.283 J
MH-32	9/28/2021		--	--	--	--	NA	<200	<250	<1.00	<1.00	<1.00	<3.00
MW-32	3/9/2021		747.02	5.55	0	741.47	54.9 B,J	<200	<250	0.247 B,J	<1.00	<1.00	0.278 J
MW-32	9/29/2021		747.02	5.95	0	741.07	48.1 B,J	<200	<250	<1.00	<1.00	<1.00	<3.00
MH-33	3/9/2021		--	--	--	--	60.9 B,J	<200	111 J	0.810 B,J	<1.00	0.231 J	0.449 J
MH-33	9/29/2021		--	--	--	--	NA	<200	<250	0.371 J	<1.00	<1.00	<3.00
MW-33	3/10/2021		747.46	5.5	0	741.96	1190	2190	669	10.3	0.378 J	19.1	30.6
MW-33	9/29/2021		747.46	5.73	0	741.73	1010	177 J	<250	1.78	0.331 J	8.91	94.9
MH-34	3/8/2021		--	--	--	--	157 B	525	716	5.54	<1.00	8..6	9.29
MH-34	9/29/2021		--	--	--	--	NA	<200	<250	14.1 Q	<1.00 Q	16.3 Q	3.71 Q
MW-39	3/9/2021		750.05	6.26	0	743.79	415 B	248	177 J	94.2	0.553 J	10.6	1.28 J
MW-39	9/29/2021		750.05	6.74	0	743.31	69.3 B,J	<200	<250	5.13	<1.00	<1.00	<3.00
MW-40	3/9/2021		749.90	6.19	0	743.71	3,280	988	297	311	2.78	40.3	43
MW-40	9/29/2021		749.90	6.64	0	743.26	1,050	<400	<500	35.7	0.756 J	13.5	8.49
MW-41	3/8/2021	Unable to locate	749.10	--	0	--	--	--	--	--	--	--	--
MW-41	9/28/2021	Unable to locate	749.10	--	0	--	--	--	--	--	--	--	--
MW-42	3/8/2021	Unable to locate	749.65	--	0	--	--	--	--	--	--	--	--
MW-42	9/29/2021		749.65	6.49	0	743.16	28100 Q	3,360	<500	61.6	596	1060	4,930
RW-1	3/8/2021	(NS)	749.42	6.75	0	742.67	--	--	--	--	--	--	--
RW-1	9/28/2021	(NS)	749.42	6.85	0	742.57	--	--	--	--	--	--	--

Table 1
2021 Groundwater Gauging Data and Analytical Results
Manhole 34
Vicinity N. 6th St. Yakima Valley Hwy. Sunnyside, WA 98944
All analytical results are presented in micrograms per liter (µg/L)

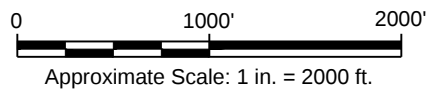
Well	Date	Notes	TOC	DTW	NAPL	GWE	GRO	DRO	HO	Benzene	Toluene	Ethylbenzene	Total Xylenes
------	------	-------	-----	-----	------	-----	-----	-----	----	---------	---------	--------------	---------------

TOC = Top of casing in feet North American Vertical Datum of 1988 (NAVD 88)
DTW = Depth to water in feet below TOC
NAPL = Non-aqueous phase liquid thickness in feet
GWE = Groundwater elevation in feet NAVD 88
GRO = Total petroleum hydrocarbons - gasoline range organics
DRO = Total petroleum hydrocarbons - diesel range organics
HO = Total petroleum hydrocarbons - heavy oil range organics
J = estimated value – The result is greater than or equal to the Method Detection Limit (MDL) and less than the Limit of Quantitation (LOQ)
B = analyte is found in the associated blank
Q = sample was prepared and/or analyzed past holding time as defined by the method. Concentrations should be considered minimum values.
NP = No purge sample
If NAPL is present, the GWE is corrected according to the following formula (TOC elevation - depth to water) + (0.8 x NAPL thickness)
GRO, DRO, HO analyzed by Ecology Northwest Methods; Benzene, toluene, ethylbenzene, and total xylenes (BTEX) by 8260B U.S. Environmental Protection Agency
BOLD = constituent detected above MTCA Cleanup Levels
-- = Not analyzed/not applicable
NA= Not Analyzed
NS = Not sampled
< = Analytical result is less than reporting limit shown
Wells were resurveyed in 2010 and are referenced to vertical datum NAVD 88 and horizontal datum NAD 83/98
Site wells were gauged on March 8 and September 28, 2021.

FIGURES



REFERENCE: BASE MAP USGS 7.5. MIN. TOPO. QUAD. SUNNYSIDE, WA, 1978.



MANHOLE 34 FACILITY
NORTH 6TH STREET AND YAKIMA VALLEY HIGHWAY
SUNNYSIDE, WASHINGTON

SITE LOCATION MAP



FIGURE

1

October 22, 2021

BPLAMP - Parsons

Sample Delivery Group: L1412226

Samples Received: 10/01/2021

Project Number:

Description:

Report To: Cynthia Oppenheimer
9101 Burnet Road
Suite 210
Austin, TX 78758

Entire Report Reviewed By:



Jared Starkey
Project Manager

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

Pace Analytical National

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

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

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

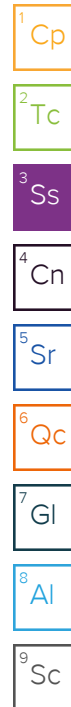
SAMPLE SUMMARY

MW-1-09292021 L1412226-01 GW

Collected by
Collected date/time
Received date/time

09/29/21 15:38 10/01/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1753944	1	10/09/21 23:48	10/09/21 23:48	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1754322	1	10/10/21 14:05	10/10/21 14:05	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1755619	1	10/13/21 09:07	10/14/21 04:09	DMG	Mt. Juliet, TN



MW-2-09092021 L1412226-02 GW

Collected by
Collected date/time
Received date/time

09/29/21 10:07 10/01/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1753944	1	10/10/21 00:10	10/10/21 00:10	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1754322	1	10/10/21 14:25	10/10/21 14:25	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1755619	1	10/13/21 09:07	10/14/21 04:35	DMG	Mt. Juliet, TN

MW-3-09297021 L1412226-03 GW

Collected by
Collected date/time
Received date/time

09/29/21 11:13 10/01/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1753944	1	10/10/21 00:32	10/10/21 00:32	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1754322	1	10/10/21 15:12	10/10/21 15:12	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1755952	10	10/13/21 09:57	10/13/21 09:57	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1755619	1	10/13/21 09:07	10/14/21 05:01	DMG	Mt. Juliet, TN

MW-4-09292021 L1412226-04 GW

Collected by
Collected date/time
Received date/time

09/29/21 09:31 10/01/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1759186	200	10/19/21 14:57	10/19/21 14:57	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1754589	100	10/11/21 07:41	10/11/21 07:41	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1755619	2	10/13/21 09:07	10/14/21 05:27	DMG	Mt. Juliet, TN

M-8-09292021 L1412226-05 GW

Collected by
Collected date/time
Received date/time

09/29/21 07:34 10/01/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1753944	1	10/10/21 00:53	10/10/21 00:53	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1754322	1	10/10/21 15:33	10/10/21 15:33	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1755952	1	10/13/21 09:35	10/13/21 09:35	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1755619	1	10/13/21 09:07	10/14/21 05:53	DMG	Mt. Juliet, TN

MW-10-09282021 L1412226-06 GW

Collected by
Collected date/time
Received date/time

09/28/21 15:04 10/01/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1753944	1	10/10/21 01:15	10/10/21 01:15	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1754322	1	10/10/21 15:53	10/10/21 15:53	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1754367	1	10/11/21 03:58	10/11/21 16:08	DMG	Mt. Juliet, TN

SAMPLE SUMMARY

MW-11-09292021 L1412226-07 GW

Collected by
Collected date/time
Received date/time

09/29/21 10:39 10/01/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1759186	25	10/19/21 13:50	10/19/21 13:50	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1754589	5	10/11/21 08:00	10/11/21 08:00	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1755619	2	10/13/21 09:07	10/14/21 06:19	DMG	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

MW-12-09282021 L1412226-08 GW

Collected by
Collected date/time
Received date/time

09/28/21 13:56 10/01/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1753944	1	10/10/21 01:37	10/10/21 01:37	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1754589	1	10/11/21 03:29	10/11/21 03:29	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1754367	1	10/11/21 03:58	10/11/21 16:35	DMG	Mt. Juliet, TN

MW-16-09282021 L1412226-09 GW

Collected by
Collected date/time
Received date/time

09/28/21 13:27 10/01/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1753944	1	10/10/21 01:59	10/10/21 01:59	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1754589	1	10/11/21 03:48	10/11/21 03:48	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1754367	1	10/11/21 03:58	10/11/21 17:01	DMG	Mt. Juliet, TN

MW-20-09282021 L1412226-10 GW

Collected by
Collected date/time
Received date/time

09/28/21 16:26 10/01/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1753944	1	10/10/21 02:21	10/10/21 02:21	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1754589	1	10/11/21 04:08	10/11/21 04:08	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1754367	1	10/11/21 03:58	10/11/21 17:28	DMG	Mt. Juliet, TN

MW-25-09292021 L1412226-11 GW

Collected by
Collected date/time
Received date/time

09/29/21 15:00 10/01/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1753944	1	10/10/21 02:43	10/10/21 02:43	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1754589	1	10/11/21 04:27	10/11/21 04:27	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1755619	1	10/13/21 09:07	10/14/21 06:45	DMG	Mt. Juliet, TN

MW-27-09292021 L1412226-12 GW

Collected by
Collected date/time
Received date/time

09/29/21 13:54 10/01/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1753944	1	10/10/21 03:05	10/10/21 03:05	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1754589	1	10/11/21 04:46	10/11/21 04:46	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1755619	1	10/13/21 09:07	10/14/21 07:11	DMG	Mt. Juliet, TN

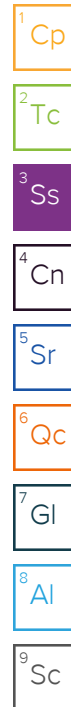
SAMPLE SUMMARY

MW-30-09282021 L1412226-13 GW

Collected by
Collected date/time
Received date/time

09/28/21 14:36 10/01/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1759186	10	10/19/21 13:26	10/19/21 13:26	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1754589	25	10/11/21 08:19	10/11/21 08:19	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1754367	1	10/11/21 03:58	10/11/21 17:55	DMG	Mt. Juliet, TN



MW-31-09292021 L1412226-14 GW

Collected by
Collected date/time
Received date/time

09/29/21 12:35 10/01/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1753944	1	10/10/21 03:27	10/10/21 03:27	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1754589	1	10/11/21 09:18	10/11/21 09:18	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1755176	10	10/12/21 19:04	10/12/21 19:04	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1755619	1	10/13/21 09:07	10/14/21 07:37	DMG	Mt. Juliet, TN

MW-32-09292021 L1412226-15 GW

Collected by
Collected date/time
Received date/time

09/29/21 12:06 10/01/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1753944	1	10/10/21 03:49	10/10/21 03:49	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1754589	1	10/11/21 05:06	10/11/21 05:06	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1755619	1	10/13/21 09:07	10/14/21 08:03	DMG	Mt. Juliet, TN

MW-33-09292021 L1412226-16 GW

Collected by
Collected date/time
Received date/time

09/29/21 11:41 10/01/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1753944	1	10/10/21 04:10	10/10/21 04:10	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1754589	1	10/11/21 05:25	10/11/21 05:25	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1755619	1	10/13/21 09:07	10/14/21 08:29	DMG	Mt. Juliet, TN

MW-39-09292021 L1412226-17 GW

Collected by
Collected date/time
Received date/time

09/29/21 08:34 10/01/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1753944	1	10/10/21 04:32	10/10/21 04:32	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1754589	1	10/11/21 05:45	10/11/21 05:45	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1755619	1	10/13/21 09:07	10/14/21 08:55	DMG	Mt. Juliet, TN

MW-40-09292021 L1412226-18 GW

Collected by
Collected date/time
Received date/time

09/29/21 08:04 10/01/21 09:00

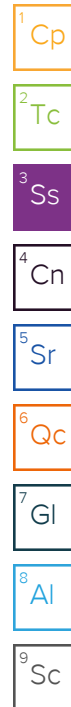
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1753944	1	10/10/21 04:54	10/10/21 04:54	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1754589	1	10/11/21 09:37	10/11/21 09:37	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1755619	2	10/13/21 09:07	10/14/21 09:21	DMG	Mt. Juliet, TN

SAMPLE SUMMARY

MW-42-09292021 L1412226-19 GW

Collected by
Collected date/time
09/29/21 08:59
Received date/time
10/01/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1759186	25	10/19/21 14:34	10/19/21 14:34	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1755176	20	10/12/21 19:43	10/12/21 19:43	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1755619	2	10/13/21 09:07	10/14/21 09:47	DMG	Mt. Juliet, TN



DMW-2-09292021 L1412226-20 GW

Collected by
Collected date/time
09/29/21 13:01
Received date/time
10/01/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1753944	1	10/10/21 05:16	10/10/21 05:16	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1754589	1	10/11/21 06:04	10/11/21 06:04	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1755619	2	10/13/21 09:07	10/14/21 10:13	DMG	Mt. Juliet, TN

DMW-4-09282021 L1412226-21 GW

Collected by
Collected date/time
09/28/21 16:54
Received date/time
10/01/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1754307	1	10/11/21 01:52	10/11/21 01:52	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1754589	1	10/11/21 06:23	10/11/21 06:23	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1755176	10	10/12/21 19:23	10/12/21 19:23	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1754367	1	10/11/21 03:58	10/11/21 18:22	DMG	Mt. Juliet, TN

DMW-5-09292021 L1412226-22 GW

Collected by
Collected date/time
09/29/21 17:08
Received date/time
10/01/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1754589	20	10/11/21 08:58	10/11/21 08:58	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1755619	2	10/13/21 09:07	10/14/21 10:39	DMG	Mt. Juliet, TN

MH-31-09292021 L1412226-23 GW

Collected by
Collected date/time
09/29/21 14:10
Received date/time
10/01/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1754589	1	10/11/21 06:42	10/11/21 06:42	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1755620	1	10/13/21 15:04	10/14/21 05:08	DMG	Mt. Juliet, TN

MH-32-09292021 L1412226-24 GW

Collected by
Collected date/time
09/29/21 14:25
Received date/time
10/01/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1754589	1	10/11/21 07:02	10/11/21 07:02	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1755620	1	10/13/21 15:04	10/14/21 05:35	DMG	Mt. Juliet, TN

MH-33-09292021 L1412226-25 GW

Collected by
Collected date/time
09/29/21 16:10
Received date/time
10/01/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1754589	1	10/11/21 07:21	10/11/21 07:21	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1755620	1	10/13/21 15:04	10/14/21 06:01	DMG	Mt. Juliet, TN

SAMPLE SUMMARY

MH-34-09292021 L1412226-26 GW

				Collected by	Collected date/time	Received date/time
					09/29/21 16:35	10/01/21 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1758516	1	10/18/21 14:25	10/18/21 14:25	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1755620	1	10/13/21 15:04	10/14/21 06:27	DMG	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

BD-MH34-09282021 L1412226-27 GW

				Collected by	Collected date/time	Received date/time
					09/28/21 12:00	10/01/21 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1755065	1	10/12/21 04:01	10/12/21 04:01	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1754367	1	10/11/21 03:58	10/11/21 18:49	DMG	Mt. Juliet, TN

⁴ Cn

⁵ Sr

⁶ Qc

BD-MH34-09292021 L1412226-28 GW

				Collected by	Collected date/time	Received date/time
					09/29/21 12:00	10/01/21 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1755295	1	10/13/21 18:46	10/13/21 18:46	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1755620	2	10/13/21 15:04	10/14/21 06:53	DMG	Mt. Juliet, TN

⁷ Gl

⁸ Al

⁹ Sc

TB-MH034-111914 L1412226-29 GW

				Collected by	Collected date/time	Received date/time
					09/28/21 08:00	10/01/21 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1755065	1	10/12/21 03:03	10/12/21 03:03	ACG	Mt. Juliet, TN

CASE NARRATIVE

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



Jared Starkey
Project Manager

Sample Delivery Group (SDG) Narrative

pH outside of method requirement.

<u>Lab Sample ID</u>	<u>Project Sample ID</u>	<u>Method</u>
L1412226-14	MW-31-09292021	NWTPHDX-SGT
L1412226-25	MH-33-09292021	NWTPHDX-SGT



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	87.0	B_J	31.6	100	1	10/09/2021 23:48	WG1753944
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	97.5			78.0-120		10/09/2021 23:48	WG1753944

1
Cp2
Tc3
Ss

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0941	1.00	1	10/10/2021 14:05	WG1754322
Toluene	U		0.278	1.00	1	10/10/2021 14:05	WG1754322
Ethylbenzene	U		0.137	1.00	1	10/10/2021 14:05	WG1754322
Total Xylenes	U		0.174	3.00	1	10/10/2021 14:05	WG1754322
(S) <i>Toluene-d8</i>	101			80.0-120		10/10/2021 14:05	WG1754322
(S) <i>4-Bromofluorobenzene</i>	89.0			77.0-126		10/10/2021 14:05	WG1754322
(S) <i>1,2-Dichloroethane-d4</i>	102			70.0-130		10/10/2021 14:05	WG1754322

4
Cn5
Sr6
Qc7
Gl8
Al

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		66.7	200	1	10/14/2021 04:09	WG1755619
Residual Range Organics (RRO)	U		83.3	250	1	10/14/2021 04:09	WG1755619
(S) <i>o</i> -Terphenyl	77.4			52.0-156		10/14/2021 04:09	WG1755619

9
Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	500		31.6	100	1	10/10/2021 00:10	WG1753944
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	97.5			78.0-120		10/10/2021 00:10	WG1753944

1 Cp

2 Tc

3 Ss

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	0.271	J	0.0941	1.00	1	10/10/2021 14:25	WG1754322
Toluene	U		0.278	1.00	1	10/10/2021 14:25	WG1754322
Ethylbenzene	U		0.137	1.00	1	10/10/2021 14:25	WG1754322
Total Xylenes	1.87	J	0.174	3.00	1	10/10/2021 14:25	WG1754322
(S) Toluene-d8	98.3			80.0-120		10/10/2021 14:25	WG1754322
(S) 4-Bromofluorobenzene	82.1			77.0-126		10/10/2021 14:25	WG1754322
(S) 1,2-Dichloroethane-d4	94.9			70.0-130		10/10/2021 14:25	WG1754322

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		66.7	200	1	10/14/2021 04:35	WG1755619
Residual Range Organics (RRO)	U		83.3	250	1	10/14/2021 04:35	WG1755619
(S) <i>o</i> -Terphenyl	83.7			52.0-156		10/14/2021 04:35	WG1755619

9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	5540		31.6	100	1	10/10/2021 00:32	WG1753944
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	95.9			78.0-120		10/10/2021 00:32	WG1753944

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	274		0.941	10.0	10	10/13/2021 09:57	WG1755952
Toluene	59.5		0.278	1.00	1	10/10/2021 15:12	WG1754322
Ethylbenzene	182		1.37	10.0	10	10/13/2021 09:57	WG1755952
Total Xylenes	665		1.74	30.0	10	10/13/2021 09:57	WG1755952
(S) Toluene-d8	94.2			80.0-120		10/10/2021 15:12	WG1754322
(S) Toluene-d8	109			80.0-120		10/13/2021 09:57	WG1755952
(S) 4-Bromofluorobenzene	84.4			77.0-126		10/10/2021 15:12	WG1754322
(S) 4-Bromofluorobenzene	102			77.0-126		10/13/2021 09:57	WG1755952
(S) 1,2-Dichloroethane-d4	101			70.0-130		10/10/2021 15:12	WG1754322
(S) 1,2-Dichloroethane-d4	104			70.0-130		10/13/2021 09:57	WG1755952

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	298		66.7	200	1	10/14/2021 05:01	WG1755619
Residual Range Organics (RRO)	U		83.3	250	1	10/14/2021 05:01	WG1755619
(S) <i>o</i> -Terphenyl	86.3			52.0-156		10/14/2021 05:01	WG1755619

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	70700	Q	6320	20000	200	10/19/2021 14:57	WG1759186
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	106			78.0-120		10/19/2021 14:57	WG1759186

1 Cp

2 Tc

3 Ss

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	2190		9.41	100	100	10/11/2021 07:41	WG1754589
Toluene	3420		27.8	100	100	10/11/2021 07:41	WG1754589
Ethylbenzene	1210		13.7	100	100	10/11/2021 07:41	WG1754589
Total Xylenes	7040		17.4	300	100	10/11/2021 07:41	WG1754589
(S) Toluene-d8	100			80.0-120		10/11/2021 07:41	WG1754589
(S) 4-Bromofluorobenzene	99.6			77.0-126		10/11/2021 07:41	WG1754589
(S) 1,2-Dichloroethane-d4	121			70.0-130		10/11/2021 07:41	WG1754589

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	1820		133	400	2	10/14/2021 05:27	WG1755619
Residual Range Organics (RRO)	U		167	500	2	10/14/2021 05:27	WG1755619
(S) <i>o</i> -Terphenyl	81.1			52.0-156		10/14/2021 05:27	WG1755619

9 Sc

Sample Narrative:

L1412226-04 WG1755619: Dilution due to matrix impact during extraction procedure

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	92.0	B J	31.6	100	1	10/10/2021 00:53	WG1753944
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	97.1			78.0-120		10/10/2021 00:53	WG1753944

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0941	1.00	1	10/13/2021 09:35	WG1755952
Toluene	U		0.278	1.00	1	10/10/2021 15:33	WG1754322
Ethylbenzene	U		0.137	1.00	1	10/13/2021 09:35	WG1755952
Total Xylenes	U		0.174	3.00	1	10/13/2021 09:35	WG1755952
(S) Toluene-d8	104			80.0-120		10/10/2021 15:33	WG1754322
(S) Toluene-d8	110			80.0-120		10/13/2021 09:35	WG1755952
(S) 4-Bromofluorobenzene	82.4			77.0-126		10/10/2021 15:33	WG1754322
(S) 4-Bromofluorobenzene	104			77.0-126		10/13/2021 09:35	WG1755952
(S) 1,2-Dichloroethane-d4	103			70.0-130		10/10/2021 15:33	WG1754322
(S) 1,2-Dichloroethane-d4	99.6			70.0-130		10/13/2021 09:35	WG1755952

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		66.7	200	1	10/14/2021 05:53	WG1755619
Residual Range Organics (RRO)	U		83.3	250	1	10/14/2021 05:53	WG1755619
(S) <i>o</i> -Terphenyl	83.2			52.0-156		10/14/2021 05:53	WG1755619

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	993		31.6	100	1	10/10/2021 01:15	WG1753944
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	97.6			78.0-120		10/10/2021 01:15	WG1753944

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	13.6		0.0941	1.00	1	10/10/2021 15:53	WG1754322
Toluene	0.467	J	0.278	1.00	1	10/10/2021 15:53	WG1754322
Ethylbenzene	49.4		0.137	1.00	1	10/10/2021 15:53	WG1754322
Total Xylenes	45.2		0.174	3.00	1	10/10/2021 15:53	WG1754322
(S) Toluene-d8	102			80.0-120		10/10/2021 15:53	WG1754322
(S) 4-Bromofluorobenzene	91.1			77.0-126		10/10/2021 15:53	WG1754322
(S) 1,2-Dichloroethane-d4	95.1			70.0-130		10/10/2021 15:53	WG1754322

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	106	J	66.7	200	1	10/11/2021 16:08	WG1754367
Residual Range Organics (RRO)	U		83.3	250	1	10/11/2021 16:08	WG1754367
(S) <i>o</i> -Terphenyl	76.8			52.0-156		10/11/2021 16:08	WG1754367

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	10100	Q	790	2500	25	10/19/2021 13:50	WG1759186
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	105			78.0-120		10/19/2021 13:50	WG1759186

1 Cp

2 Tc

3 Ss

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	122		0.471	5.00	5	10/11/2021 08:00	WG1754589
Toluene	2.36	J	1.39	5.00	5	10/11/2021 08:00	WG1754589
Ethylbenzene	128		0.685	5.00	5	10/11/2021 08:00	WG1754589
Total Xylenes	314		0.870	15.0	5	10/11/2021 08:00	WG1754589
(S) Toluene-d8	97.1			80.0-120		10/11/2021 08:00	WG1754589
(S) 4-Bromofluorobenzene	93.3			77.0-126		10/11/2021 08:00	WG1754589
(S) 1,2-Dichloroethane-d4	111			70.0-130		10/11/2021 08:00	WG1754589

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	1300		133	400	2	10/14/2021 06:19	WG1755619
Residual Range Organics (RRO)	U		167	500	2	10/14/2021 06:19	WG1755619
(S) o-Terphenyl	78.4			52.0-156		10/14/2021 06:19	WG1755619

9 Sc

Sample Narrative:

L1412226-07 WG1755619: Dilution due to matrix impact during extraction procedure

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	45.2	B J	31.6	100	1	10/10/2021 01:37	WG1753944
(S) a,a,a-Trifluorotoluene(FID)	96.8			78.0-120		10/10/2021 01:37	WG1753944

1 Cp

2 Tc

3 Ss

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0941	1.00	1	10/11/2021 03:29	WG1754589
Toluene	U		0.278	1.00	1	10/11/2021 03:29	WG1754589
Ethylbenzene	U		0.137	1.00	1	10/11/2021 03:29	WG1754589
Total Xylenes	U		0.174	3.00	1	10/11/2021 03:29	WG1754589
(S) Toluene-d8	111			80.0-120		10/11/2021 03:29	WG1754589
(S) 4-Bromofluorobenzene	102			77.0-126		10/11/2021 03:29	WG1754589
(S) 1,2-Dichloroethane-d4	119			70.0-130		10/11/2021 03:29	WG1754589

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		66.7	200	1	10/11/2021 16:35	WG1754367
Residual Range Organics (RRO)	U		83.3	250	1	10/11/2021 16:35	WG1754367
(S) o-Terphenyl	74.2			52.0-156		10/11/2021 16:35	WG1754367

9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	10/10/2021 01:59	WG1753944
(S) a,a,a-Trifluorotoluene(FID)	97.0			78.0-120		10/10/2021 01:59	WG1753944

1 Cp

2 Tc

3 Ss

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0941	1.00	1	10/11/2021 03:48	WG1754589
Toluene	U		0.278	1.00	1	10/11/2021 03:48	WG1754589
Ethylbenzene	U		0.137	1.00	1	10/11/2021 03:48	WG1754589
Total Xylenes	U		0.174	3.00	1	10/11/2021 03:48	WG1754589
(S) Toluene-d8	104			80.0-120		10/11/2021 03:48	WG1754589
(S) 4-Bromofluorobenzene	93.1			77.0-126		10/11/2021 03:48	WG1754589
(S) 1,2-Dichloroethane-d4	114			70.0-130		10/11/2021 03:48	WG1754589

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		66.7	200	1	10/11/2021 17:01	WG1754367
Residual Range Organics (RRO)	U		83.3	250	1	10/11/2021 17:01	WG1754367
(S) o-Terphenyl	74.2			52.0-156		10/11/2021 17:01	WG1754367

9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	10/10/2021 02:21	WG1753944
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	97.0			78.0-120		10/10/2021 02:21	WG1753944

1 Cp

2 Tc

3 Ss

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0941	1.00	1	10/11/2021 04:08	WG1754589
Toluene	U		0.278	1.00	1	10/11/2021 04:08	WG1754589
Ethylbenzene	U		0.137	1.00	1	10/11/2021 04:08	WG1754589
Total Xylenes	U		0.174	3.00	1	10/11/2021 04:08	WG1754589
(S) Toluene-d8	109			80.0-120		10/11/2021 04:08	WG1754589
(S) 4-Bromofluorobenzene	103			77.0-126		10/11/2021 04:08	WG1754589
(S) 1,2-Dichloroethane-d4	122			70.0-130		10/11/2021 04:08	WG1754589

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	72.2	J	66.7	200	1	10/11/2021 17:28	WG1754367
Residual Range Organics (RRO)	298		83.3	250	1	10/11/2021 17:28	WG1754367
(S) <i>o</i> -Terphenyl	87.9			52.0-156		10/11/2021 17:28	WG1754367

9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	10/10/2021 02:43	WG1753944
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	97.0			78.0-120		10/10/2021 02:43	WG1753944

1 Cp

2 Tc

3 Ss

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0941	1.00	1	10/11/2021 04:27	WG1754589
Toluene	U		0.278	1.00	1	10/11/2021 04:27	WG1754589
Ethylbenzene	U		0.137	1.00	1	10/11/2021 04:27	WG1754589
Total Xylenes	U		0.174	3.00	1	10/11/2021 04:27	WG1754589
(S) Toluene-d8	113			80.0-120		10/11/2021 04:27	WG1754589
(S) 4-Bromofluorobenzene	97.6			77.0-126		10/11/2021 04:27	WG1754589
(S) 1,2-Dichloroethane-d4	120			70.0-130		10/11/2021 04:27	WG1754589

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		66.7	200	1	10/14/2021 06:45	WG1755619
Residual Range Organics (RRO)	U		83.3	250	1	10/14/2021 06:45	WG1755619
(S) <i>o</i> -Terphenyl	82.1			52.0-156		10/14/2021 06:45	WG1755619

9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	10/10/2021 03:05	WG1753944
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	97.5			78.0-120		10/10/2021 03:05	WG1753944

1 Cp

2 Tc

3 Ss

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0941	1.00	1	10/11/2021 04:46	WG1754589
Toluene	U		0.278	1.00	1	10/11/2021 04:46	WG1754589
Ethylbenzene	U		0.137	1.00	1	10/11/2021 04:46	WG1754589
Total Xylenes	U		0.174	3.00	1	10/11/2021 04:46	WG1754589
(S) Toluene-d8	108			80.0-120		10/11/2021 04:46	WG1754589
(S) 4-Bromofluorobenzene	98.5			77.0-126		10/11/2021 04:46	WG1754589
(S) 1,2-Dichloroethane-d4	115			70.0-130		10/11/2021 04:46	WG1754589

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		66.7	200	1	10/14/2021 07:11	WG1755619
Residual Range Organics (RRO)	U		83.3	250	1	10/14/2021 07:11	WG1755619
(S) <i>o</i> -Terphenyl	81.1			52.0-156		10/14/2021 07:11	WG1755619

9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	14200	Q	316	1000	10	10/19/2021 13:26	WG1759186
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	91.7			78.0-120		10/19/2021 13:26	WG1759186

1 Cp

2 Tc

3 Ss

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	591		2.35	25.0	25	10/11/2021 08:19	WG1754589
Toluene	39.8		6.95	25.0	25	10/11/2021 08:19	WG1754589
Ethylbenzene	1030		3.43	25.0	25	10/11/2021 08:19	WG1754589
Total Xylenes	535		4.35	75.0	25	10/11/2021 08:19	WG1754589
(S) Toluene-d8	98.6			80.0-120		10/11/2021 08:19	WG1754589
(S) 4-Bromofluorobenzene	90.4			77.0-126		10/11/2021 08:19	WG1754589
(S) 1,2-Dichloroethane-d4	115			70.0-130		10/11/2021 08:19	WG1754589

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	1580		66.7	200	1	10/11/2021 17:55	WG1754367
Residual Range Organics (RRO)	U		83.3	250	1	10/11/2021 17:55	WG1754367
(S) <i>o</i> -Terphenyl	80.5			52.0-156		10/11/2021 17:55	WG1754367

9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

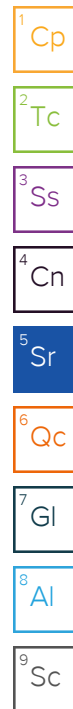
Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	1860		31.6	100	1	10/10/2021 03:27	WG1753944
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	96.7			78.0-120		10/10/2021 03:27	WG1753944

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	246		0.941	10.0	10	10/12/2021 19:04	WG1755176
Toluene	1.99		0.278	1.00	1	10/11/2021 09:18	WG1754589
Ethylbenzene	31.9		0.137	1.00	1	10/11/2021 09:18	WG1754589
Total Xylenes	47.0		0.174	3.00	1	10/11/2021 09:18	WG1754589
(S) Toluene-d8	96.4			80.0-120		10/11/2021 09:18	WG1754589
(S) Toluene-d8	112			80.0-120		10/12/2021 19:04	WG1755176
(S) 4-Bromofluorobenzene	94.7			77.0-126		10/11/2021 09:18	WG1754589
(S) 4-Bromofluorobenzene	98.3			77.0-126		10/12/2021 19:04	WG1755176
(S) 1,2-Dichloroethane-d4	122			70.0-130		10/11/2021 09:18	WG1754589
(S) 1,2-Dichloroethane-d4	102			70.0-130		10/12/2021 19:04	WG1755176

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	184	J	66.7	200	1	10/14/2021 07:37	WG1755619
Residual Range Organics (RRO)	U		83.3	250	1	10/14/2021 07:37	WG1755619
(S) <i>o</i> -Terphenyl	82.6			52.0-156		10/14/2021 07:37	WG1755619



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	48.1	B J	31.6	100	1	10/10/2021 03:49	WG1753944
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	96.9			78.0-120		10/10/2021 03:49	WG1753944

1 Cp

2 Tc

3 Ss

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0941	1.00	1	10/11/2021 05:06	WG1754589
Toluene	U		0.278	1.00	1	10/11/2021 05:06	WG1754589
Ethylbenzene	U		0.137	1.00	1	10/11/2021 05:06	WG1754589
Total Xylenes	U		0.174	3.00	1	10/11/2021 05:06	WG1754589
(S) Toluene-d8	107			80.0-120		10/11/2021 05:06	WG1754589
(S) 4-Bromofluorobenzene	96.2			77.0-126		10/11/2021 05:06	WG1754589
(S) 1,2-Dichloroethane-d4	117			70.0-130		10/11/2021 05:06	WG1754589

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		66.7	200	1	10/14/2021 08:03	WG1755619
Residual Range Organics (RRO)	U		83.3	250	1	10/14/2021 08:03	WG1755619
(S) <i>o</i> -Terphenyl	85.8			52.0-156		10/14/2021 08:03	WG1755619

9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	1010		31.6	100	1	10/10/2021 04:10	WG1753944
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	97.5			78.0-120		10/10/2021 04:10	WG1753944

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	1.78		0.0941	1.00	1	10/11/2021 05:25	WG1754589
Toluene	0.331	J	0.278	1.00	1	10/11/2021 05:25	WG1754589
Ethylbenzene	8.91		0.137	1.00	1	10/11/2021 05:25	WG1754589
Total Xylenes	94.9		0.174	3.00	1	10/11/2021 05:25	WG1754589
(S) Toluene-d8	107			80.0-120		10/11/2021 05:25	WG1754589
(S) 4-Bromofluorobenzene	107			77.0-126		10/11/2021 05:25	WG1754589
(S) 1,2-Dichloroethane-d4	120			70.0-130		10/11/2021 05:25	WG1754589

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	177	J	66.7	200	1	10/14/2021 08:29	WG1755619
Residual Range Organics (RRO)	U		83.3	250	1	10/14/2021 08:29	WG1755619
(S) <i>o</i> -Terphenyl	86.8			52.0-156		10/14/2021 08:29	WG1755619

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	69.3	B J	31.6	100	1	10/10/2021 04:32	WG1753944
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	96.9			78.0-120		10/10/2021 04:32	WG1753944

1 Cp

2 Tc

3 Ss

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	5.13		0.0941	1.00	1	10/11/2021 05:45	WG1754589
Toluene	U		0.278	1.00	1	10/11/2021 05:45	WG1754589
Ethylbenzene	U		0.137	1.00	1	10/11/2021 05:45	WG1754589
Total Xylenes	U		0.174	3.00	1	10/11/2021 05:45	WG1754589
(S) Toluene-d8	104			80.0-120		10/11/2021 05:45	WG1754589
(S) 4-Bromofluorobenzene	101			77.0-126		10/11/2021 05:45	WG1754589
(S) 1,2-Dichloroethane-d4	115			70.0-130		10/11/2021 05:45	WG1754589

4 Cn

5 Sr

6 Qc

7 Gl

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		66.7	200	1	10/14/2021 08:55	WG1755619
Residual Range Organics (RRO)	U		83.3	250	1	10/14/2021 08:55	WG1755619
(S) <i>o</i> -Terphenyl	82.6			52.0-156		10/14/2021 08:55	WG1755619

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	1050		31.6	100	1	10/10/2021 04:54	WG1753944
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	97.5			78.0-120		10/10/2021 04:54	WG1753944

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

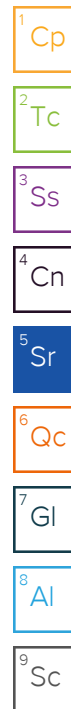
Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	35.7		0.0941	1.00	1	10/11/2021 09:37	WG1754589
Toluene	0.756	J	0.278	1.00	1	10/11/2021 09:37	WG1754589
Ethylbenzene	13.5		0.137	1.00	1	10/11/2021 09:37	WG1754589
Total Xylenes	8.49		0.174	3.00	1	10/11/2021 09:37	WG1754589
(S) Toluene-d8	106			80.0-120		10/11/2021 09:37	WG1754589
(S) 4-Bromofluorobenzene	102			77.0-126		10/11/2021 09:37	WG1754589
(S) 1,2-Dichloroethane-d4	115			70.0-130		10/11/2021 09:37	WG1754589

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		133	400	2	10/14/2021 09:21	WG1755619
Residual Range Organics (RRO)	U		167	500	2	10/14/2021 09:21	WG1755619
(S) <i>o</i> -Terphenyl	81.1			52.0-156		10/14/2021 09:21	WG1755619

Sample Narrative:

L1412226-18 WG1755619: Dilution due to matrix impact during extraction procedure



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	28100	Q	790	2500	25	10/19/2021 14:34	WG1759186
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	103			78.0-120		10/19/2021 14:34	WG1759186

1 Cp

2 Tc

3 Ss

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	61.6		1.88	20.0	20	10/12/2021 19:43	WG1755176
Toluene	596		5.56	20.0	20	10/12/2021 19:43	WG1755176
Ethylbenzene	1060		2.74	20.0	20	10/12/2021 19:43	WG1755176
Total Xylenes	4930		3.48	60.0	20	10/12/2021 19:43	WG1755176
(S) Toluene-d8	105			80.0-120		10/12/2021 19:43	WG1755176
(S) 4-Bromofluorobenzene	100			77.0-126		10/12/2021 19:43	WG1755176
(S) 1,2-Dichloroethane-d4	100			70.0-130		10/12/2021 19:43	WG1755176

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	3360		133	400	2	10/14/2021 09:47	WG1755619
Residual Range Organics (RRO) U			167	500	2	10/14/2021 09:47	WG1755619
(S) o-Terphenyl	83.2			52.0-156		10/14/2021 09:47	WG1755619

9 Sc

Sample Narrative:

L1412226-19 WG1755619: Dilution due to matrix impact during extraction procedure

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	799		31.6	100	1	10/10/2021 05:16	WG1753944
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	97.8			78.0-120		10/10/2021 05:16	WG1753944

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

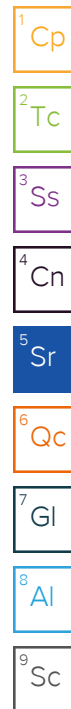
Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	0.262	<u>J</u>	0.0941	1.00	1	10/11/2021 06:04	WG1754589
Toluene	0.386	<u>J</u>	0.278	1.00	1	10/11/2021 06:04	WG1754589
Ethylbenzene	77.2		0.137	1.00	1	10/11/2021 06:04	WG1754589
Total Xylenes	1.09	<u>J</u>	0.174	3.00	1	10/11/2021 06:04	WG1754589
(S) Toluene-d8	97.1			80.0-120		10/11/2021 06:04	WG1754589
(S) 4-Bromofluorobenzene	92.7			77.0-126		10/11/2021 06:04	WG1754589
(S) 1,2-Dichloroethane-d4	112			70.0-130		10/11/2021 06:04	WG1754589

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		133	400	2	10/14/2021 10:13	WG1755619
Residual Range Organics (RRO)	U		167	500	2	10/14/2021 10:13	WG1755619
(S) <i>o</i> -Terphenyl	72.6			52.0-156		10/14/2021 10:13	WG1755619

Sample Narrative:

L1412226-20 WG1755619: Dilution due to matrix impact during extraction procedure



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	3710		31.6	100	1	10/11/2021 01:52	WG1754307
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	98.7			78.0-120		10/11/2021 01:52	WG1754307

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	5.29		0.0941	1.00	1	10/11/2021 06:23	WG1754589
Toluene	1.41		0.278	1.00	1	10/11/2021 06:23	WG1754589
Ethylbenzene	381		1.37	10.0	10	10/12/2021 19:23	WG1755176
Total Xylenes	94.7		0.174	3.00	1	10/11/2021 06:23	WG1754589
(S) Toluene-d8	84.1			80.0-120		10/11/2021 06:23	WG1754589
(S) Toluene-d8	110			80.0-120		10/12/2021 19:23	WG1755176
(S) 4-Bromofluorobenzene	91.9			77.0-126		10/11/2021 06:23	WG1754589
(S) 4-Bromofluorobenzene	98.9			77.0-126		10/12/2021 19:23	WG1755176
(S) 1,2-Dichloroethane-d4	120			70.0-130		10/11/2021 06:23	WG1754589
(S) 1,2-Dichloroethane-d4	99.8			70.0-130		10/12/2021 19:23	WG1755176

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	283		66.7	200	1	10/11/2021 18:22	WG1754367
Residual Range Organics (RRO)	U		83.3	250	1	10/11/2021 18:22	WG1754367
(S) <i>o</i> -Terphenyl	76.8			52.0-156		10/11/2021 18:22	WG1754367

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

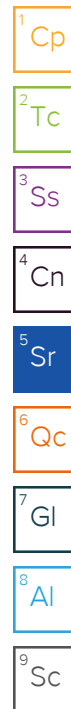
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	110		1.88	20.0	20	10/11/2021 08:58	WG1754589
Toluene	19.3	J	5.56	20.0	20	10/11/2021 08:58	WG1754589
Ethylbenzene	1080		2.74	20.0	20	10/11/2021 08:58	WG1754589
Total Xylenes	2630		3.48	60.0	20	10/11/2021 08:58	WG1754589
(S) Toluene-d8	101			80.0-120		10/11/2021 08:58	WG1754589
(S) 4-Bromofluorobenzene	97.2			77.0-126		10/11/2021 08:58	WG1754589
(S) 1,2-Dichloroethane-d4	116			70.0-130		10/11/2021 08:58	WG1754589

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	2010		133	400	2	10/14/2021 10:39	WG1755619
Residual Range Organics (RRO)	U		167	500	2	10/14/2021 10:39	WG1755619
(S) o-Terphenyl	91.1			52.0-156		10/14/2021 10:39	WG1755619

Sample Narrative:

L1412226-22 WG1755619: Dilution due to matrix impact during extraction procedure



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	0.745	J	0.0941	1.00	1	10/11/2021 06:42	WG1754589
Toluene	U		0.278	1.00	1	10/11/2021 06:42	WG1754589
Ethylbenzene	0.389	J	0.137	1.00	1	10/11/2021 06:42	WG1754589
Total Xylenes	U		0.174	3.00	1	10/11/2021 06:42	WG1754589
(S) Toluene-d8	106			80.0-120		10/11/2021 06:42	WG1754589
(S) 4-Bromofluorobenzene	100			77.0-126		10/11/2021 06:42	WG1754589
(S) 1,2-Dichloroethane-d4	112			70.0-130		10/11/2021 06:42	WG1754589

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		66.7	200	1	10/14/2021 05:08	WG1755620
Residual Range Organics (RRO)	U		83.3	250	1	10/14/2021 05:08	WG1755620
(S) o-Terphenyl	75.3			52.0-156		10/14/2021 05:08	WG1755620

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0941	1.00	1	10/11/2021 07:02	WG1754589
Toluene	U		0.278	1.00	1	10/11/2021 07:02	WG1754589
Ethylbenzene	U		0.137	1.00	1	10/11/2021 07:02	WG1754589
Total Xylenes	U		0.174	3.00	1	10/11/2021 07:02	WG1754589
(S) Toluene-d8	105			80.0-120		10/11/2021 07:02	WG1754589
(S) 4-Bromofluorobenzene	98.9			77.0-126		10/11/2021 07:02	WG1754589
(S) 1,2-Dichloroethane-d4	115			70.0-130		10/11/2021 07:02	WG1754589

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		66.7	200	1	10/14/2021 05:35	WG1755620
Residual Range Organics (RRO)	U		83.3	250	1	10/14/2021 05:35	WG1755620
(S) o-Terphenyl	72.5			52.0-156		10/14/2021 05:35	WG1755620

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	0.371	J	0.0941	1.00	1	10/11/2021 07:21	WG1754589
Toluene	U		0.278	1.00	1	10/11/2021 07:21	WG1754589
Ethylbenzene	U		0.137	1.00	1	10/11/2021 07:21	WG1754589
Total Xylenes	U		0.174	3.00	1	10/11/2021 07:21	WG1754589
(S) Toluene-d8	107			80.0-120		10/11/2021 07:21	WG1754589
(S) 4-Bromofluorobenzene	98.2			77.0-126		10/11/2021 07:21	WG1754589
(S) 1,2-Dichloroethane-d4	120			70.0-130		10/11/2021 07:21	WG1754589

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		66.7	200	1	10/14/2021 06:01	WG1755620
Residual Range Organics (RRO)	U		83.3	250	1	10/14/2021 06:01	WG1755620
(S) o-Terphenyl	69.5			52.0-156		10/14/2021 06:01	WG1755620

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	14.1	Q	0.0941	1.00	1	10/18/2021 14:25	WG1758516
Toluene	U	Q	0.278	1.00	1	10/18/2021 14:25	WG1758516
Ethylbenzene	16.3	Q	0.137	1.00	1	10/18/2021 14:25	WG1758516
Total Xylenes	3.71	Q	0.174	3.00	1	10/18/2021 14:25	WG1758516
(S) Toluene-d8	97.9			80.0-120		10/18/2021 14:25	WG1758516
(S) 4-Bromofluorobenzene	95.7			77.0-126		10/18/2021 14:25	WG1758516
(S) 1,2-Dichloroethane-d4	109			70.0-130		10/18/2021 14:25	WG1758516

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		66.7	200	1	10/14/2021 06:27	WG1755620
Residual Range Organics (RRO)	U		83.3	250	1	10/14/2021 06:27	WG1755620
(S) o-Terphenyl	66.3			52.0-156		10/14/2021 06:27	WG1755620

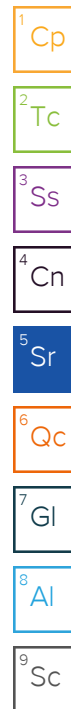
¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0941	1.00	1	10/12/2021 04:01	WG1755065
Toluene	U		0.278	1.00	1	10/12/2021 04:01	WG1755065
Ethylbenzene	U		0.137	1.00	1	10/12/2021 04:01	WG1755065
Total Xylenes	U		0.174	3.00	1	10/12/2021 04:01	WG1755065
(S) Toluene-d8	100			80.0-120		10/12/2021 04:01	WG1755065
(S) 4-Bromofluorobenzene	97.9			77.0-126		10/12/2021 04:01	WG1755065
(S) 1,2-Dichloroethane-d4	102			70.0-130		10/12/2021 04:01	WG1755065

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		66.7	200	1	10/11/2021 18:49	WG1754367
Residual Range Organics (RRO)	U		83.3	250	1	10/11/2021 18:49	WG1754367
(S) o-Terphenyl	82.6			52.0-156		10/11/2021 18:49	WG1754367



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

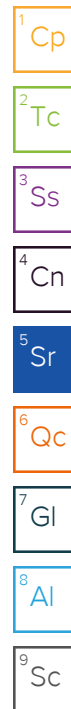
Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	40.1		0.0941	1.00	1	10/13/2021 18:46	WG1755295
Toluene	0.879	J	0.278	1.00	1	10/13/2021 18:46	WG1755295
Ethylbenzene	16.0		0.137	1.00	1	10/13/2021 18:46	WG1755295
Total Xylenes	10.3		0.174	3.00	1	10/13/2021 18:46	WG1755295
(S) Toluene-d8	100			80.0-120		10/13/2021 18:46	WG1755295
(S) 4-Bromofluorobenzene	97.8			77.0-126		10/13/2021 18:46	WG1755295
(S) 1,2-Dichloroethane-d4	120			70.0-130		10/13/2021 18:46	WG1755295

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		133	400	2	10/14/2021 06:53	WG1755620
Residual Range Organics (RRO)	U		167	500	2	10/14/2021 06:53	WG1755620
(S) o-Terphenyl	67.9			52.0-156		10/14/2021 06:53	WG1755620

Sample Narrative:

L1412226-28 WG1755620: Dilution due to matrix impact during extraction procedure



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0941	1.00	1	10/12/2021 03:03	WG1755065
Toluene	U		0.278	1.00	1	10/12/2021 03:03	WG1755065
Ethylbenzene	U		0.137	1.00	1	10/12/2021 03:03	WG1755065
Total Xylenes	U		0.174	3.00	1	10/12/2021 03:03	WG1755065
(S) Toluene-d8	97.2			80.0-120		10/12/2021 03:03	WG1755065
(S) 4-Bromofluorobenzene	97.4			77.0-126		10/12/2021 03:03	WG1755065
(S) 1,2-Dichloroethane-d4	104			70.0-130		10/12/2021 03:03	WG1755065

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3718060-2 10/09/21 23:26

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	41.0	J	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	96.6			78.0-120

Laboratory Control Sample (LCS)

(LCS) R3718060-1 10/09/21 22:42

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5220	94.9	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			104	78.0-120	

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R3718058-2 10/11/21 01:08

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	35.3	J	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	94.7			78.0-120

Laboratory Control Sample (LCS)

(LCS) R3718058-1 10/11/21 00:08

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5390	98.0	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			102	78.0-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3718812-2 10/19/21 08:16

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	32.1	J	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	107			78.0-120

Laboratory Control Sample (LCS)

(LCS) R3718812-1 10/19/21 07:22

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	6300	115	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			97.1	78.0-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3715529-3 10/10/21 13:44

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.0941	1.00
Ethylbenzene	U		0.137	1.00
Toluene	U		0.278	1.00
Xylenes, Total	U		0.174	3.00
(S) Toluene-d8	103			80.0-120
(S) 4-Bromofluorobenzene	85.4			77.0-126
(S) 1,2-Dichloroethane-d4	101			70.0-130

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

(LCS) R3715529-1 10/10/21 12:43 • (LCSD) R3715529-2 10/10/21 13:04

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	5.00	5.76	5.39	115	108	70.0-123			6.64	20
Ethylbenzene	5.00	5.36	4.90	107	98.0	79.0-123			8.97	20
Toluene	5.00	5.58	5.17	112	103	79.0-120			7.63	20
Xylenes, Total	15.0	14.8	13.8	98.7	92.0	79.0-123			6.99	20
(S) Toluene-d8				102	99.3	80.0-120				
(S) 4-Bromofluorobenzene				90.7	87.6	77.0-126				
(S) 1,2-Dichloroethane-d4				97.5	101	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3714999-3 10/11/21 03:09

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.0941	1.00
Ethylbenzene	U		0.137	1.00
Toluene	U		0.278	1.00
Xylenes, Total	U		0.174	3.00
(S) Toluene-d8	103			80.0-120
(S) 4-Bromofluorobenzene	96.4			77.0-126
(S) 1,2-Dichloroethane-d4	129			70.0-130

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

(LCS) R3714999-1 10/11/21 02:11 • (LCSD) R3714999-2 10/11/21 02:31

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	5.00	4.42	4.71	88.4	94.2	70.0-123			6.35	20
Ethylbenzene	5.00	4.04	4.12	80.8	82.4	79.0-123			1.96	20
Toluene	5.00	4.14	4.32	82.8	86.4	79.0-120			4.26	20
Xylenes, Total	15.0	11.9	12.8	79.3	85.3	79.0-123			7.29	20
(S) Toluene-d8				105	105	80.0-120				
(S) 4-Bromofluorobenzene				101	95.3	77.0-126				
(S) 1,2-Dichloroethane-d4				127	122	70.0-130				

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R3719897-2 10/12/21 02:44

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.0941	1.00
Ethylbenzene	U		0.137	1.00
Toluene	U		0.278	1.00
Xylenes, Total	U		0.174	3.00
(S) Toluene-d8	99.1			80.0-120
(S) 4-Bromofluorobenzene	99.5			77.0-126
(S) 1,2-Dichloroethane-d4	103			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3719897-1 10/12/21 02:05

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	5.00	5.80	116	70.0-123	
Ethylbenzene	5.00	5.04	101	79.0-123	
Toluene	5.00	5.08	102	79.0-120	
Xylenes, Total	15.0	15.1	101	79.0-123	
(S) Toluene-d8			96.4	80.0-120	
(S) 4-Bromofluorobenzene			98.4	77.0-126	
(S) 1,2-Dichloroethane-d4			113	70.0-130	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3715839-4 10/12/21 13:43

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.0941	1.00
Ethylbenzene	U		0.137	1.00
Toluene	U		0.278	1.00
Xylenes, Total	U		0.174	3.00
(S) Toluene-d8	114			80.0-120
(S) 4-Bromofluorobenzene	103			77.0-126
(S) 1,2-Dichloroethane-d4	99.9			70.0-130

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

(LCS) R3715839-1 10/12/21 12:04 • (LCSD) R3715839-2 10/12/21 12:25

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	5.00	4.77	4.98	95.4	99.6	70.0-123			4.31	20
Ethylbenzene	5.00	5.01	4.81	100	96.2	79.0-123			4.07	20
Toluene	5.00	4.90	4.84	98.0	96.8	79.0-120			1.23	20
Xylenes, Total	15.0	14.0	14.3	93.3	95.3	79.0-123			2.12	20
(S) Toluene-d8				109	108	80.0-120				
(S) 4-Bromofluorobenzene				98.1	94.1	77.0-126				
(S) 1,2-Dichloroethane-d4				101	104	70.0-130				

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R3717498-3 10/13/21 17:29

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.0941	1.00
Ethylbenzene	U		0.137	1.00
Toluene	U		0.278	1.00
Xylenes, Total	U		0.174	3.00
(S) Toluene-d8	104			80.0-120
(S) 4-Bromofluorobenzene	98.1			77.0-126
(S) 1,2-Dichloroethane-d4	119			70.0-130

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

(LCS) R3717498-1 10/13/21 16:21 • (LCSD) R3717498-2 10/13/21 16:40

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	5.00	4.55	4.37	91.0	87.4	70.0-123			4.04	20
Ethylbenzene	5.00	4.54	4.39	90.8	87.8	79.0-123			3.36	20
Toluene	5.00	4.42	4.34	88.4	86.8	79.0-120			1.83	20
Xylenes, Total	15.0	13.4	13.4	89.3	89.3	79.0-123			0.000	20
(S) Toluene-d8				101	103	80.0-120				
(S) 4-Bromofluorobenzene				98.9	96.7	77.0-126				
(S) 1,2-Dichloroethane-d4				121	117	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3716605-3 10/13/21 02:06

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.0941	1.00
Ethylbenzene	U		0.137	1.00
Xylenes, Total	U		0.174	3.00
(S) Toluene-d8	110			80.0-120
(S) 4-Bromofluorobenzene	97.9			77.0-126
(S) 1,2-Dichloroethane-d4	103			70.0-130

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

(LCS) R3716605-1 10/13/21 00:41 • (LCSD) R3716605-2 10/13/21 01:03

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	5.00	5.07	5.08	101	102	70.0-123			0.197	20
Ethylbenzene	5.00	5.07	5.38	101	108	79.0-123			5.93	20
Xylenes, Total	15.0	15.6	16.3	104	109	79.0-123			4.39	20
(S) Toluene-d8				111	115	80.0-120				
(S) 4-Bromofluorobenzene				95.2	97.6	77.0-126				
(S) 1,2-Dichloroethane-d4				108	107	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3718085-3 10/18/21 10:56

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.0941	1.00
Ethylbenzene	U		0.137	1.00
Toluene	U		0.278	1.00
Xylenes, Total	U		0.174	3.00
(S) Toluene-d8	102			80.0-120
(S) 4-Bromofluorobenzene	92.1			77.0-126
(S) 1,2-Dichloroethane-d4	108			70.0-130

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

(LCS) R3718085-1 10/18/21 09:52 • (LCSD) R3718085-2 10/18/21 10:13

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	5.00	4.71	4.66	94.2	93.2	70.0-123			1.07	20
Ethylbenzene	5.00	4.90	4.82	98.0	96.4	79.0-123			1.65	20
Toluene	5.00	4.62	4.65	92.4	93.0	79.0-120			0.647	20
Xylenes, Total	15.0	13.7	13.2	91.3	88.0	79.0-123			3.72	20
(S) Toluene-d8				103	97.4	80.0-120				
(S) 4-Bromofluorobenzene				100	94.8	77.0-126				
(S) 1,2-Dichloroethane-d4				116	112	70.0-130				

L1413596-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1413596-20 10/18/21 15:08 • (MS) R3718085-4 10/18/21 21:57 • (MSD) R3718085-5 10/18/21 22:19

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	5.00	U	3.67	5.03	73.4	101	1	17.0-158		J3	31.3	27
Ethylbenzene	5.00	1.16	5.01	6.16	77.0	100	1	30.0-155			20.6	27
Toluene	5.00	U	3.67	4.85	73.4	97.0	1	26.0-154			27.7	28
Xylenes, Total	15.0	2.07	12.6	16.2	70.2	94.2	1	29.0-154			25.0	28
(S) Toluene-d8					103	99.6		80.0-120				
(S) 4-Bromofluorobenzene					103	99.3		77.0-126				
(S) 1,2-Dichloroethane-d4					113	111		70.0-130				

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R3715049-1 10/11/21 10:02

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Diesel Range Organics (DRO)	U		66.7	200
Residual Range Organics (RRO)	U		83.3	250
(S) o-Terphenyl	77.5			52.0-156

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

(LCS) R3715049-2 10/11/21 10:28 • (LCSD) R3715049-3 10/11/21 10:54

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	1500	1190	1290	79.3	86.0	50.0-150			8.06	20
(S) o-Terphenyl				98.5	114	52.0-156				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3716351-1 10/14/21 00:40

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Diesel Range Organics (DRO)	U		66.7	200
Residual Range Organics (RRO)	U		83.3	250
(S) o-Terphenyl	74.0			52.0-156

Laboratory Control Sample (LCS)

(LCS) R3716351-2 10/14/21 01:06

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Diesel Range Organics (DRO)	1500	1490	99.3	50.0-150	
(S) o-Terphenyl			99.0	52.0-156	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3716225-1 10/14/21 03:50

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Diesel Range Organics (DRO)	U		66.7	200
Residual Range Organics (RRO)	U		83.3	250
(S) o-Terphenyl	75.5			52.0-156

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

(LCS) R3716225-2 10/14/21 04:16 • (LCSD) R3716225-3 10/14/21 04:42

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	1500	1260	1270	84.0	84.7	50.0-150			0.791	20
(S) o-Terphenyl				87.5	88.5	52.0-156				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

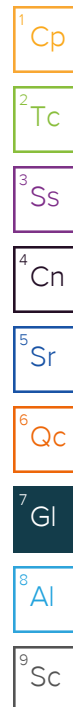
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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

Abbreviations and Definitions

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

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
Q	Sample was prepared and/or analyzed past holding time as defined in the method. Concentrations should be considered minimum values.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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





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

B087

Page 1 of 5

BP Site Node Path: BP>USA>WA>WA-MH-34 (Manhole 34 Project Site) Req Due Date (mm/dd/yy): Rush TAT Yes No XXX

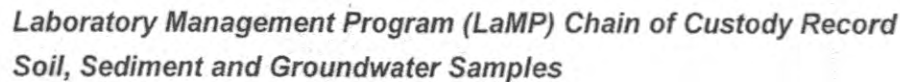
Lab Work Order Number:

Lab Name: Pace Analytical National		BP/ARC Facility Address: 6th St. & Yakima Valley Hwy		Consultant/Contractor: Parsons											
Lab Address: 12065 Lebanon Rd, Mount Juliet, TN 37122		City, State, ZIP Code: Sunnyside, WA		Consultant/Contractor Project No:											
Lab PM: Jared Starkey		Lead Regulatory Agency:		Address:											
Lab Phone: 615-773-9698		California Global ID No.:		Consultant/Contractor PM: Cynthia Oppenheimer											
Lab Shipping Acct:		Enfos Proposal No: D01BZ-0001		Phone: 925-324-4895											
Lab Bottle Order No:		Accounting Mode: Provision (10)		Send/Submit EDD to: cynthia.oppenheimer@parsons.com											
Other Info:		Stage 70 Activity 116		Invoice To: PARSONS - BP-RM Enfos BP-Other											
BP/RM PM: John Frankenthal		Sample Details		Requested Analyses											
PM Phone: 331-236-1391				Report Type & QC Level											
PM Email: john.frankenthal@bp.com				Limited (Standard) Package XX											
				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	NWTPH-Gx	BTEX (8280B)	NWTPH-DROHRO		
	MW-1-09292021	9/29/21	1538	W				G	6		X	X	X		-01
	MW-2-09292021	9/29/21	1007								X	X	X		-02
	MW-3-09292021	9/29/21	1113								X	X	X		-03
	MW-4-09292021	9/29/21	0931								X	X	X		-04
	MW-8-09292021	9/29/21	0734								X	X	X		-05
	MW-10-09282021	9/28/21	1504								X	X	X		-06
	MW-11-09292021	9/29/21	1039	✓				✓	✓		X	X	X		-07
Sampler's Name: Foster Kretzel		Relinquished By / Affiliation		Date	Time	Accepted By / Affiliation		Date	Time						
Sampler's Company: Parsons		[Signature] / BTS		9/30/21	1600	Shipped via Fed EX		9/30/21	1600						
Ship Method: Fed EX Ship Date: 9/30/21						[Signature]		10/1/21	0900						
Shipment Tracking No:															
Special Instructions:															
THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No Temp Blank: Yes / No Cooler Temp on Receipt: °F/C Trip Blank: Yes / No MS/MSD Sample Submitted: Yes / No															

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Property of BP and its Affiliates

1.2 + 1 = 1.3
A2EL

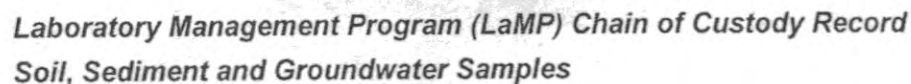
BP LaMP Soil/H2O COC July 2018



BP Site Node Path: BP>USA>WA>WA-MH-34 (Manhole 34 Project Site) Req Due Date (mm/dd/yy): _____ Rush TAT Yes _____ No XXX
Lab Work Order Number: _____

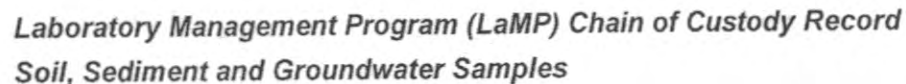
BP LaMP Soil/H2O COC July 2018

1.2 + 1 = 1.3 Azpn



Lab Work Order Number:

$$1.2 + .1 = 1.3 \text{ A2m}$$



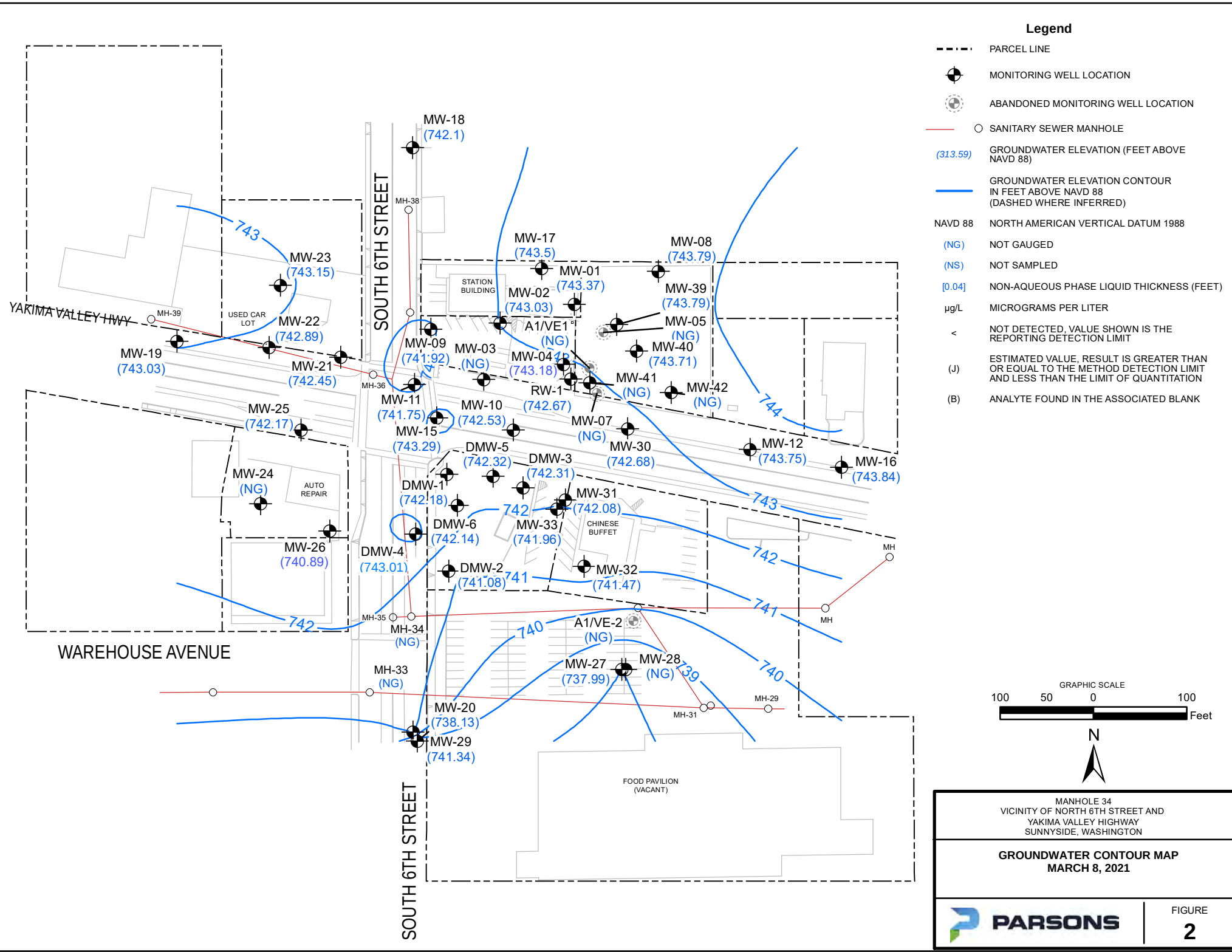
Lab Work Order Number:

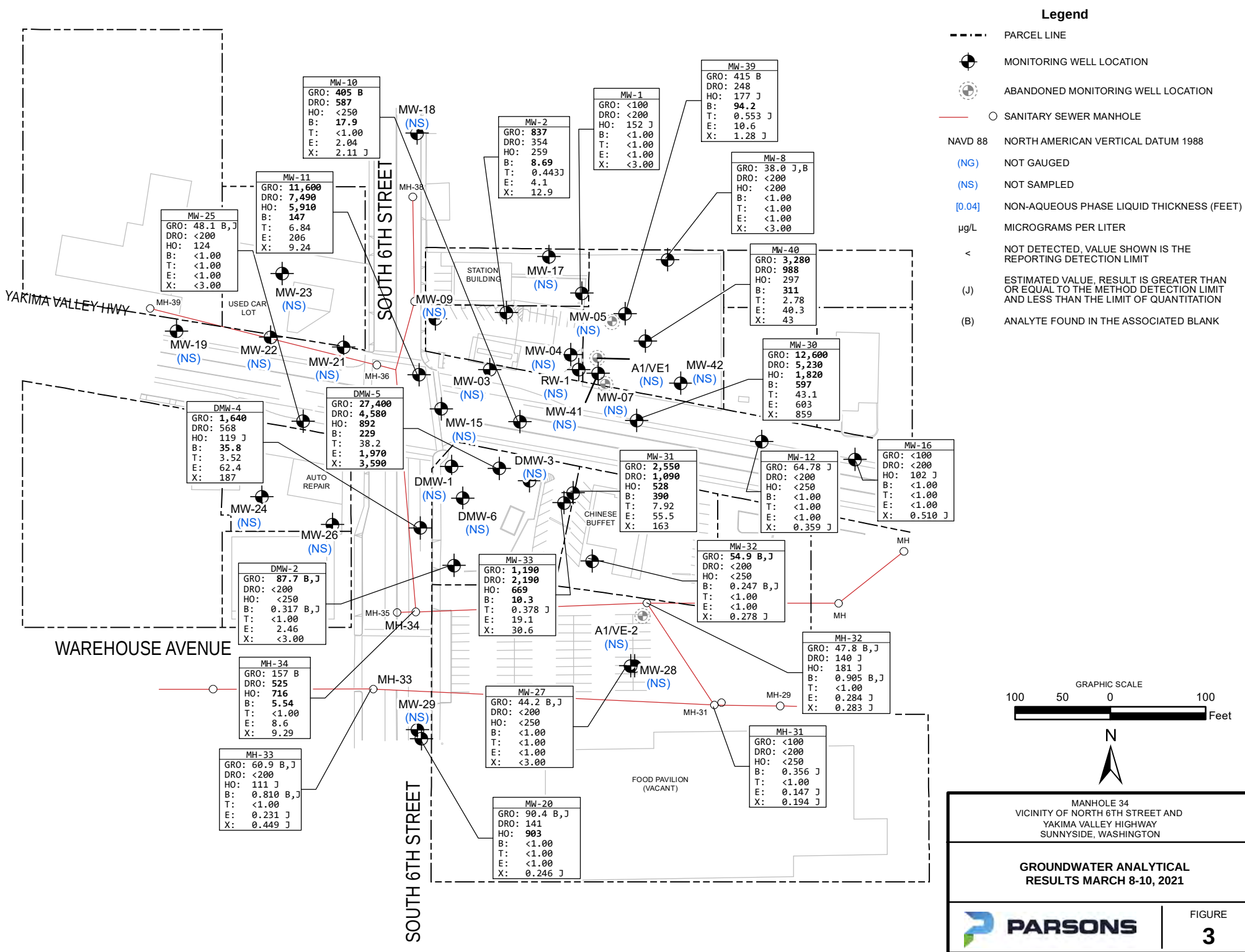
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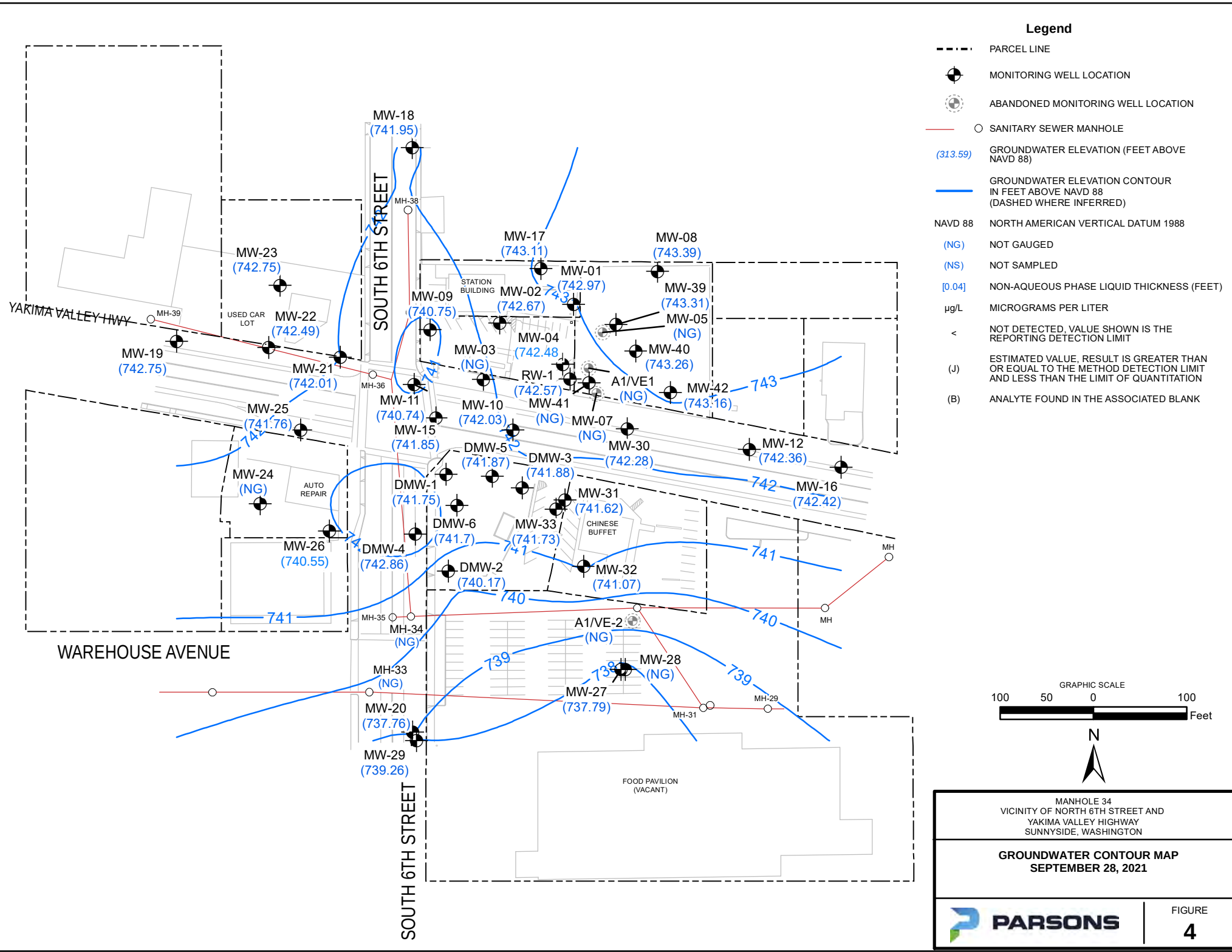
$$1.2 + 1 = 1.3 \quad A2 \text{ B}$$

U412226

<u>Tracking Numbers</u>		<u>Temperature</u>
5217 3313 6246		1. 2 + 1 = 1.3 A^2 8R
5217 3313 5857		2. 1 - 1 = 2.0 A^3 8a

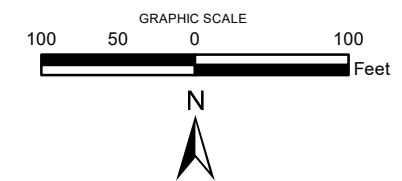






Legend

- PARCEL LINE
- MONITORING WELL LOCATION
- ABANDONED MONITORING WELL LOCATION
- SANITARY SEWER MANHOLE
- (313.59) GROUNDWATER ELEVATION (FEET ABOVE NAVD 88)
- GROUNDWATER ELEVATION CONTOUR IN FEET ABOVE NAVD 88 (DASHED WHERE INFERRED)
- NAVD 88 NORTH AMERICAN VERTICAL DATUM 1988
- (NG) NOT GAUGED
- (NS) NOT SAMPLED
- [0.04] NON-AQUEOUS PHASE LIQUID THICKNESS (FEET)
- µg/L MICROGRAMS PER LITER
- < NOT DETECTED, VALUE SHOWN IS THE REPORTING DETECTION LIMIT
- (J) ESTIMATED VALUE, RESULT IS GREATER THAN OR EQUAL TO THE METHOD DETECTION LIMIT AND LESS THAN THE LIMIT OF QUANTITATION
- (B) ANALYTE FOUND IN THE ASSOCIATED BLANK



MANHOLE 34
VICINITY OF NORTH 6TH STREET AND
YAKIMA VALLEY HIGHWAY
SUNNYSIDE, WASHINGTON

**GROUNDWATER CONTOUR MAP
SEPTEMBER 28, 2021**

PARSONS

FIGURE
4

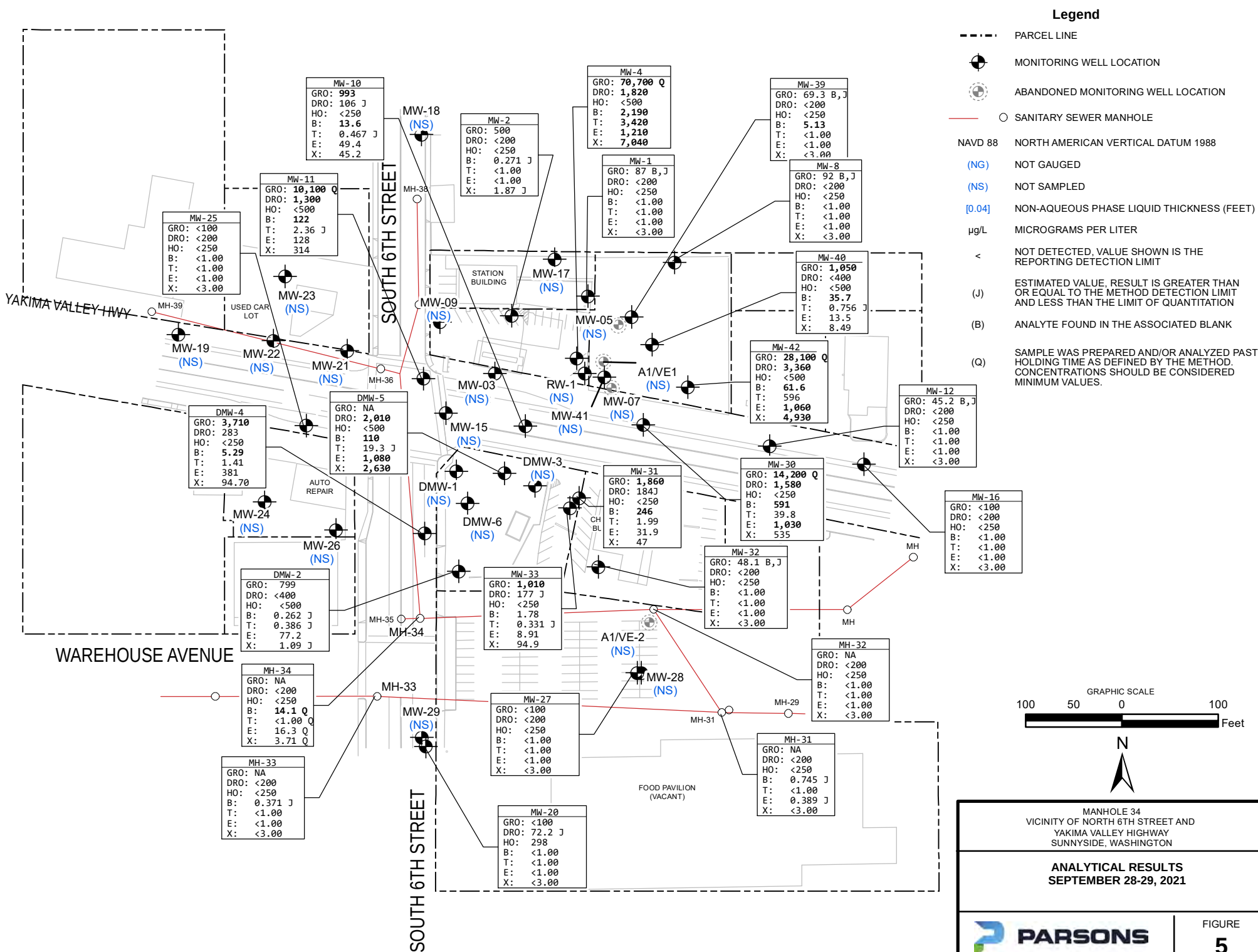
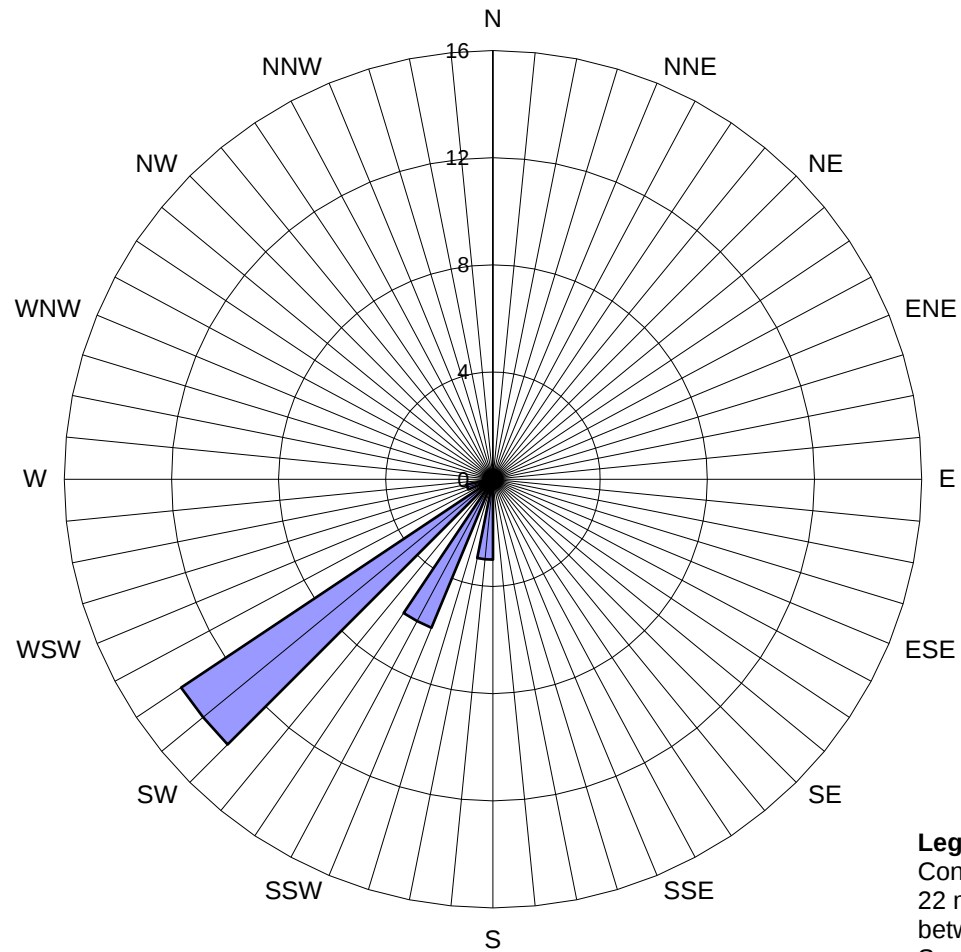


Figure 6
Groundwater Flow Direction Rose Diagram
MH-34 Facility
600-604 & 601 Yakima Valley Highway
Sunnyside, WA



Legend

Concentric circles represent
22 monitoring events conducted
between June 2010 and
September 2021.

■ Groundwater Flow Direction

APPENDIX A

GROUNDWATER SAMPLING FIELD DATA SHEETS

WELL GAUGING DATA

Project # 210308-AU1 Date 3/8/21 Client Parsons

Site 6th Street & Yakima Valley Hwy, Sunnyvale, CA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or <u>TOC</u>	Notes
MW-1	1341	2	Odor				6.41	18.22		
MW-2	1356	2	Odor				6.14	16.55		
MW-3	1408	2	Odor	6.55	0.03	—	6.58	—		
MW-4	1320	2	Odor	6.83	0.07	—	6.40	—		Sock
MW-8	1307	2					6.25	16.80		Sock
MW-9	1402	2					6.33	16.42		
MW-10	1050	2					6.95	16.83		Sock
MW-11	0937	2					6.78	17.18		Sock
MW-12	1243	2					6.40	17.40		
MW-15	1050	2					5.45 6.23	13.78 12.57		
MW-16	1224	2					7.10	13.55		
MW-17	1347	2					5.95	15.59		
MW-18	1425	2					6.17	13.50		
MW-19	1417	2					5.70	13.91		
MW-20	1515	2					8.65	12.63		
MW-21	1426	2					5.96	15.77		
MW-22	1426	2					6.01	15.71	✓	

WELL GAUGING DATA

Project # 210308-AV1 Date 3/8/21 Client Parsons

Site 6th Street & Yakima Valley Hwy, Sunnyvale, WA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or <u>TOO</u>	Notes
MW-23	1421	2					6.02	15.85		
MW-24				Unable to locate						
MW-25	1237	4					5.87	14.75		
MW-26	1242	4					6.46	15.15		
MW-27	1345	4					9.34	18.75		
MW-28				Unable to access, 1:1 Stack						
MW-29	1516	2					5.45 5.45	14.57 14.57		
MW-30	1254	4					6.80	18.75		
MW-31	1409 1356	4					5.70 5.97	18.68 25.70		
MW-32	1250	4					5.55	19.00		
MW-33	1324	4					5.50	19.00		
MW-34	1301	2					6.26	13.74		
MW-40	1257	2					6.14	12.45		
MW-41				Unable to locate						
MW-42				Unable to locate						
DMW-1	1305	2					6.23	19.65		
DMW-2	1317	2					7.00	14.42	↓	

WELL GAUGING DATA

Project # 210308-AV1 Date 3/8/21 Client Pearsons

Site 6th Street & Yukon Valley Hwy, Sunny Side, LA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or <u>TOC</u>	Notes
DW-3	1255	2					6.65	19.50	↓	
DW-4	0808	2					6.10	16.80		
DW-5	1300	2	odor				6.32	18.96		
DW-6	1311	2	odor				6.43	18.75		
CV-1	1313	2					6.75	18.68		
AI/VE2	1352	2					5.70	25.70		

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210308-AW1</u>	Client: ^{AH} Jacobs <u>Parsons</u>
Sampler: <u>AH</u>	Gauging Date: <u>3/8/21</u>
Well I.D.: <u>MW-1</u>	Well Diameter (in.): <u>②</u> 3 4 6 8
Total Well Depth (ft.): <u>18.22</u>	Depth to Water (ft.): <u>6.41</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI Pro PSS</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1628 Flow Rate: 300 mL/min Pump Depth: 12 ft

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to Water (ft.)
1631	12.2	7.47	859	12	2.62	158.1	900	6.45
1634	12.2	7.47	858	11	2.28	157.9	1800	6.46
1637	12.3	7.48	857	11	2.21	157.3	2700	6.46
1640	12.3	7.49	856	10	2.18	156.8	3600	6.46
1643	12.3	7.51	856	10	2.09	155.9	4500	6.46

Did well dewater? Yes <u>No</u>	Amount actually evacuated: <u>4500 mL</u>
Sampling Time: <u>1646</u>	Sampling Date: <u>3/8/21</u>
Sample I.D.: <u>MW-1-03082021</u>	Laboratory: <u>Pace</u>
Analyzed for: <u>TPH-G BTEX MTBE TPH-D</u>	Other: <u>See CoC</u>
Equipment Blank I.D.: <u>@</u> Time	Duplicate I.D.: <u> </u>

Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (408) 573-0555

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210308-AW1</u>	Client: <u>Parsons</u>
Sampler: <u>AW</u>	Gauging Date: <u>3/8/21</u>
Well I.D.: <u>MW-2</u>	Well Diameter (in.): <u>2</u> 3 4 6 8
Total Well Depth (ft.): <u>16.55</u>	Depth to Water (ft.): <u>6.19</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
Referenced to: <u>(PVC)</u> Grade	Flow Cell Type: <u>YSI Pro DSS</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1001 Flow Rate: 200 mL/min Pump Depth: 11

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1004	10.1	7.25	934	15	0.91	43.2	600	6.48
1007	10.7	7.15	947	15	0.79	42.2	1200	6.50
1010	11.0	7.14	955	14	0.78	40.8	1800	6.50
1013	11.2	7.16	962	14	0.76	38.5	2400	6.50
1016	11.2	7.14	962	14	0.76	36.9	3000	6.50

Did well dewater? Yes <u>(No)</u>	Amount actually evacuated: <u>3000 mL</u>
Sampling Time: <u>1019</u>	Sampling Date: <u>3/9/21</u>
Sample I.D.: <u>MW-2-03092021</u>	Laboratory: <u>Pace</u>
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: <u>See Loc</u>
Equipment Blank I.D.: <u>@</u>	Duplicate I.D.: _____

Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (408) 573-0555

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>Z10308-AW1</u>	Client: <u>PARSONS</u>
Sampler: <u>AH</u>	Gauging Date: <u>3/8/21</u>
Well I.D.: <u>MW-3</u>	Well Diameter (in.): <u>Ø 3 4 6 8</u> _____
Total Well Depth (ft.): <u>—</u>	Depth to Water (ft.): <u>6.58</u>
Depth to Free Product: <u>6.55</u>	Thickness of Free Product (feet): <u>0.03</u>
Referenced to: <u>PVG</u> Grade	Flow Cell Type: _____

Purge Method: 2" Grundfos Pump ~~Peristaltic Pump~~ ~~Bladder Pump~~
 Sampling Method: Dedicated Tubing ~~New Tubing~~ ~~Other~~ _____
 Start Purge Time: _____ Flow Rate: _____ Pump Depth: _____

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
			<u>0.03' OF SPH DETECTED</u>			<u>W /</u>		
			<u>INTERFACE</u>			<u>PROBE</u>		
			<u>NO SAMPLE TAKEN</u>			<u>—</u>		

Did well dewater? Yes No	Amount actually evacuated: _____
Sampling Time: _____	Sampling Date: _____
Sample I.D.: _____	Laboratory: _____
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: _____
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (408) 573-0555

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210308-AW1</u>	Client: <u>Persans</u>
Sampler: <u>AW</u>	Gauging Date: <u>3/8/21</u>
Well I.D.: <u>NV-8</u>	Well Diameter (in.): <u>2</u> 3 4 6 8
Total Well Depth (ft.): <u>16.80</u>	Depth to Water (ft.): <u>6.25</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI Pro DSS</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1206 Flow Rate: 200 mL/min Pump Depth: 11

Time	Temp. (<u>°C</u> or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>ml</u>)	Depth to Water (ft.)
1209	11.7	7.59	682	13	2.41	38.2	600	6.35
1212	11.7	7.55	680	13	2.32	38.1	1200	6.37
1215	11.9	7.54	678	13	2.24	37.6	1800	6.37
1218	11.9	7.54	676	13	2.18	37.2	2400	6.38
1221	11.9	7.54	676	13	2.13	36.6	3000	6.38

Did well dewater? Yes <u>No</u>	Amount actually evacuated: <u>3000 mL</u>
Sampling Time: <u>1229</u>	Sampling Date: <u>3/9/21</u>
Sample I.D.: <u>NV-8-03092021</u>	Laboratory: <u>Pace</u>
Analyzed for: <u>TPH-G BTEX MTBE TPH-D</u>	<u>Other</u> <u>See Col</u>
Equipment Blank I.D.: <u>@</u>	Duplicate I.D.: <u>Time</u>

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210308-AU1</u>	Client: <u>Persons</u>
Sampler: <u>AU-1</u>	Gauging Date: <u>3/9/21</u>
Well I.D.: <u>MW-10</u>	Well Diameter (in.): <u>(2)</u> 3 4 6 8
Total Well Depth (ft.): <u>16.83</u>	Depth to Water (ft.): <u>6.95</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
Referenced to: <u>(PVC)</u> Grade	Flow Cell Type: <u>YSI Pro DSS</u>

Purge Method: 2" Grundfos Pump

Sampling Method: Dedicated Tubing

Peristaltic Pump

Bladder Pump

New Tubing

Other

Start Purge Time: 1056

Flow Rate: 200 mL/min

Pump Depth: 12

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to Water (ft.)
1059	12.1	7.48	752	20	1.24	34.0	600	7.00
1102	12.1	7.46	749	17	1.08	29.8	1200	7.00
1105	12.0	7.47	745	16	1.07	25.4	1800	7.00
1108	12.2 ^{AU} 12.2	7.46	744	16	1.06	22.6	2400	7.00
1111	12.3 ^{AU} 12.2	7.46	745	16	1.10	19.3	3000	7.00

Did well dewater? Yes (No)

Amount actually evacuated: 3000 mL

Sampling Time: 1147

Sampling Date: 3/9/21

Sample I.D.: MW-10-03092021

Laboratory: Phce

Analyzed for: TPH-G BTEX MTBE TPH-D

Other See Coc

Equipment Blank I.D.: @

Time

Duplicate I.D.:

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LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210308-AW1</u>	Client: <u>Parsons</u>
Sampler: <u>AH</u>	Gauging Date: <u>3/9/21</u>
Well I.D.: <u>MW-11</u>	Well Diameter (in.): <u>②</u> 3 4 6 8
Total Well Depth (ft.): <u>17.18</u>	Depth to Water (ft.): <u>6.78</u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI Pro DSS</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other
 Start Purge Time: 1000 Flow Rate: 300 mL/min Pump Depth: 11ft

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to Water (ft.)
1003	12.8	6.84	1275	158	1.47	-46.5	900	6.82
1006	12.7	6.83	1267	145	1.18	-63.0	1800	6.87
1009	12.9	6.84	1249	134	1.05	-71.6	2700	6.91
1012	13.0	6.87	1232	131	0.98	-74.7	3600	6.92
1015	13.0	6.88	1228	129	0.97	-80.1	4500	6.95

Did well dewater? Yes <u>No</u>	Amount actually evacuated: <u>4500 mL</u>
Sampling Time: <u>1018</u>	Sampling Date: <u>3/9/21</u>
Sample I.D.: <u>MW-11-03092021</u>	Laboratory: <u>Parsons</u>
Analyzed for: TPH-G BTEX MTBE TPH-D	<u>Other</u> <u>See CoC</u>
Equipment Blank I.D.: <u>@</u> Time	Duplicate I.D.: <u> </u>

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210308-AW1</u>	Client: <u>Parsons</u>
Sampler: <u>AH</u>	Gauging Date: <u>3/8/21</u>
Well I.D.: <u>MW-12</u>	Well Diameter (in.): <u>2</u> 3 4 6 8
Total Well Depth (ft.): <u>17.40</u>	Depth to Water (ft.): <u>6.48</u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI Pro DSS</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other
 Start Purge Time: 1203 Flow Rate: 300 mL/min Pump Depth: 12 ft

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1206	14.9	7.45	911	9	1.35	-29.2	900	6.50
1209	15.3	7.44	910	8	1.09	-32.4	1800	6.51
1212	15.1	7.45	900	7	1.07	-33.3	2700	6.53
1215	15.3	7.44	898	7	0.99	-35.2	3600	6.53
1218	15.4	7.44	895	7	0.99	-36.7	4500	6.54

Did well dewater? Yes <u>(No)</u>	Amount actually evacuated: <u>4500 mL</u>
Sampling Time: <u>1221</u>	Sampling Date: <u>3/9/21</u>
Sample I.D.: <u>MW-12-03092021</u>	Laboratory: <u>Pace</u>
Analyzed for: <u>TPH-G BTEX MTBE TPH-D</u>	Other: <u>See Col</u>
Equipment Blank I.D.: <u>@</u>	Duplicate I.D.: <u> </u>

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210308-AU1</u>	Client: <u>Porsans</u>
Sampler: <u>AW</u>	Gauging Date: <u>3/8/21</u>
Well I.D.: <u>AW-16</u>	Well Diameter (in.): <u>2</u> 3 4 6 8
Total Well Depth (ft.): <u>13.55</u>	Depth to Water (ft.): <u>7.10</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSL Pro DSS</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1133 Flow Rate: 200 mL/min Pump Depth: 16

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1136	11.9	7.45	871	41	1.02	42.1	600	8.15
1139	12.0	7.40	871	14	0.91	41.5	1200	8.15
1142	11.8	7.41	866	15	0.82	39.3	1800	8.15
1145	12.0	7.43	863	15	0.81	36.8	2400	8.15
1148	12.0	7.45	863	15	0.79	35.6	3000	8.15

Did well dewater? Yes <u>No</u>	Amount actually evacuated: <u>3000 mL</u>
Sampling Time: <u>1151</u>	Sampling Date: <u>3/4/21</u>
Sample I.D.: <u>AW-16-03042021</u>	Laboratory: <u>Pace</u>
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: <u>see loc</u>
Equipment Blank I.D.: <u>@</u>	Duplicate I.D.: <u>Time</u>

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210308-AU1</u>	Client: <u>Parsons</u>
Sampler: <u>AW</u>	Gauging Date: <u>3/8/21</u>
Well I.D.: <u>MW-20</u>	Well Diameter (in.): <u>(2)</u> 3 4 6 8
Total Well Depth (ft.): <u>12.63</u>	Depth to Water (ft.): <u>8.65</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
Referenced to: <u>(PVC)</u> Grade	Flow Cell Type: <u>YSE AD Plus</u>

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
 Sampling Method: (Dedicated Tubing) New Tubing Other _____
 Start Purge Time: 1519 Flow Rate: 200 mL/min Pump Depth: 10

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1522	11.4	7.37	543	154	1.76	34.5	600	8.78
1525	11.4	7.35	545	128	1.75	29.2	1200	8.78
1528	11.4	7.37	545	84	1.86	24.7	1800	8.78
1531	11.4	7.39	547	83	1.88	21.4	2400	8.78
1534	11.4	7.42	544	83	1.94	18.6	3000	8.78

Did well dewater? Yes <u>(No)</u>	Amount actually evacuated: <u>3000 mL</u>
Sampling Time: <u>1537</u>	Sampling Date: <u>3/8/21</u>
Sample I.D.: <u>MW-20-03082021</u>	Laboratory: <u>Pace Nutrition</u>
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: <u>Sec Loc</u>
Equipment Blank I.D.: @	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210308-AV1</u>	Client: <u>Parsons</u>
Sampler: <u>AW</u>	Gauging Date: <u>3/8/21</u>
Well I.D.: <u>MW-25</u>	Well Diameter (in.): <u>2</u> <u>3</u> <u>4</u> <u>6</u> <u>8</u> <u> </u>
Total Well Depth (ft.): <u>14.75</u>	Depth to Water (ft.): <u>5.87</u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
Referenced to: <u>(PVC)</u> Grade	Flow Cell Type: <u>YSI Pro DSS</u>

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
 Sampling Method: (Dedicated Tubing) New Tubing Other
 Start Purge Time: 1511 Flow Rate: 200 mL/min Pump Depth: 10

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to Water (ft.)
1514	12.2	7.58	1101	19	4.22	37.3	600	5.90
1517	12.4	7.46	1103	19	4.09	38.1	1200	5.90
1520	12.4	7.39	1105	19	4.03	38.2	1800	5.90
1523	12.4	7.37	1105	19	4.01	38.3	2400	5.90
1526	12.5	7.36	1100	19	4.03	38.5	3000	5.90

Did well dewater? Yes <u>(No)</u>	Amount actually evacuated: <u>3000 mL</u>
Sampling Time: <u>1529</u>	Sampling Date: <u>3/9/21</u>
Sample I.D.: <u>MW-25-03092021</u>	Laboratory: <u>Pace</u>
Analyzed for: <u>TPH-G BTEX MTBE TPH-D</u>	Other: <u>(See Loc)</u>
Equipment Blank I.D.: <u>@</u>	Duplicate I.D.: <u>Time</u>

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210308-AU1</u>	Client: <u>Parsons</u>
Sampler: <u>AL</u>	Gauging Date: <u>3/8/21</u>
Well I.D.: <u>MW-21</u>	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): <u>18.75</u>	Depth to Water (ft.): <u>9.34</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI Pro DSS</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other —
 Start Purge Time: 0850 Flow Rate: 200 mL/min Pump Depth: 14

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0853	10.1	7.71	707	11	5.39	31.7	600	9.41
0856	10.8	7.51	708	11	5.38	37.8	1200	9.42
0859	10.8	7.45	711	11	5.41	39.6	1800	9.43
0902	10.8	7.41	709	11	5.37	41.8	2400	9.43
0905	10.9	7.40	707	11	5.34	43.8	3000	9.44

Did well dewater? Yes <u>No</u>	Amount actually evacuated: <u>3000 mL</u>
Sampling Time: <u>0908</u>	Sampling Date: <u>3/10/21</u>
Sample I.D.: <u>MW-27-03/10/2021</u>	Laboratory: <u>Pace</u>
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: <u>See Col</u>
Equipment Blank I.D.: <u>@</u> Time	Duplicate I.D.: <u> </u>

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LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210308-AW1</u>	Client: <u>Parsons</u>
Sampler: <u>AW</u>	Gauging Date: <u>3/8/21</u>
Well I.D.: <u>MW-30</u>	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): <u>18.75</u>	Depth to Water (ft.): <u>6.80</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI PRO DSS</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1236 Flow Rate: 200 mL/min Pump Depth: 12

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to Water (ft.)
1239	12.6	7.15	991	27	0.79	-86.6	600	6.80
1242	13.0	7.12	1003	26	0.70	-97.9	1200	6.82
1245	13.4	7.12	1012	25	0.65	-104.9	1800	6.93
1248	13.4	7.13	<u>AW</u> 1019	25	0.61	-110.6	2400	6.94
1251	13.5	7.14	1019	25	0.59	-114.8	3000	6.95

Did well dewater? Yes <u>No</u>	Amount actually evacuated: <u>3000 mL</u>
Sampling Time: <u>1254</u>	Sampling Date: <u>3/9/21</u>
Sample I.D.: <u>MW-30-03092021</u>	Laboratory: <u>Pace</u>
Analyzed for: TPH-G BTEX MTBE TPH-D	<u>Other</u> <u>See Col</u>
Equipment Blank I.D.: <u>@</u> Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210310-AW1</u>	Client: <u>Persons</u>
Sampler: <u>AW</u>	Gauging Date: <u>3/8/21</u>
Well I.D.: <u>AW-31</u>	Well Diameter (in.): 2 3 4 6 8 <u> </u>
Total Well Depth (ft.): <u>18.68</u>	Depth to Water (ft.): <u>5.97</u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI Pro DSI</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other
 Start Purge Time: 0929 Flow Rate: 200 mL/min Pump Depth: 12

Time	Temp. °C or °F	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>ml</u>)	Depth to Water (ft.)
0927	11.0	6.91	1557	14	1.01	-37.9	600	6.10
0930	11.3	6.89	1596	13	0.89	-50.6	1200	6.11
0933	11.8	6.89	1621	13	0.89	-57.9	1800	6.11
0936	11.7	6.92	1627	12	0.78	-63.4	2400	6.11
0939	11.8	6.94	1631	12	0.78	-66.5	3000	6.11

Did well dewater? Yes <u>No</u>	Amount actually evacuated: <u>3000 mL</u>
Sampling Time: <u>0942</u>	Sampling Date: <u>3/10/21</u>
Sample I.D.: <u>AW-31-210310</u> <u>MU-31-03102021</u>	Laboratory: <u>Pace</u>
Analyzed for: TPH-G BTEX MTBE TPH-D	<u>Other</u> : <u>See Col</u>
Equipment Blank I.D.: <u> </u> @ <u> </u> Time	Duplicate I.D.: <u> </u>

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210308-AW1</u>	Client: <u>Parsons</u>
Sampler: <u>AH</u>	Gauging Date: <u>3/8/21</u>
Well I.D.: <u>MW-32</u>	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): <u>19.00</u>	Depth to Water (ft.): <u>5.55</u>
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI Pro DSS</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1520 Flow Rate: 300 mL/min Pump Depth: 12

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>ml</u>)	Depth to Water (ft.)
1523	13.8	7.68	778	17	3.37	39.0	900	5.62
1526	14.0	7.62	782	15	2.54	36.4	1800	5.64
1529	14.0	7.59	789	15	2.51	33.7	2700	5.67
1532	14.0	7.58	790	14	2.42	32.9	3600	5.67
1535	14.0	7.56	790	14	2.40	31.5	4500	5.67

Did well dewater? Yes <u>No</u>	Amount actually evacuated: <u>4500 mL</u>
Sampling Time: <u>1538</u>	Sampling Date: <u>3/9/21</u>
Sample I.D.: <u>MW-32-03092021</u>	Laboratory: <u>Pace</u>
Analyzed for: TPH-G BTEX MTBE TPH-D	<u>Other</u> <u>See CoC</u>
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210308-AW1</u>	Client: <u>Parsons</u>
Sampler: <u>AH</u>	Gauging Date: <u>3/8/21</u>
Well I.D.: <u>MW-33</u>	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): <u>19.00</u>	Depth to Water (ft.): <u>5.50</u>
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI Pro DSS</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0920 Flow Rate: 300 mL/min Pump Depth: 2

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0923	12.6	7.01	686	40	1.21	-70.1	900	5.55
0926	12.4	6.95	691	39	1.05	-68.8	1800	5.58
0929	12.6	6.87 ^{6.94} <u>AH</u>	687	38	0.94	-68.7	2700	5.60
0932	12.6	6.95	682	38	0.92	-68.9	3600	5.60
0935	12.6	6.95	680	37	0.89	-69.2	4500	5.60

Did well dewater? Yes <u>No</u>	Amount actually evacuated: <u>4500 mL</u>
Sampling Time: <u>0938</u>	Sampling Date: <u>3/10/21</u>
Sample I.D.: <u>MW-33-03102021</u>	Laboratory: <u>Test America Pace</u>
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: <u>See CoC</u>
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210308-AW1</u>	Client: <u>Parsons</u>
Sampler: <u>AH</u>	Gauging Date: <u>3/8/21</u>
Well I.D.: <u>MW-39</u>	Well Diameter (in.): <u>2</u> 3 4 6 8
Total Well Depth (ft.): <u>13.74</u>	Depth to Water (ft.): <u>6.26</u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI Pro DSS</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other
 Start Purge Time: 1252 Flow Rate: 300 mL/min Pump Depth: 10

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>ml</u>)	Depth to Water (ft.)
1255	13.1	7.64	705	7	1.35	-5.9	900	6.26
1258	13.0	7.62	696	7	1.11	-9.7	1800	6.26
1301	12.9	7.62	692	8	1.08	-11.1	2700	6.26
1304	12.7	7.62	683	8	1.02	-15.3	3600	6.26
1307	12.7	7.62	682	8	1.01	-16.2	4500	6.26

Did well dewater? Yes <u>No</u>		Amount actually evacuated: <u>4500 mL</u>
Sampling Time: <u>1310</u>		Sampling Date: <u>3/9/21</u>
Sample I.D.: <u>MU-39-03092021</u>		Laboratory: <u>Pure</u>
Analyzed for: <u>TPH-G BTEX MTBE TPH-D</u>	Other: <u>See Col</u>	
Equipment Blank I.D.: <u>@</u>	Duplicate I.D.: <u> </u>	

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210308-AW1</u>	Client: <u>Parsons</u>
Sampler: <u>AH</u>	Gauging Date: <u>3/8/21</u>
Well I.D.: <u>MW-40</u>	Well Diameter (in.): <u>2</u> 3 4 6 8
Total Well Depth (ft.): <u>12.95</u>	Depth to Water (ft.): <u>6.19</u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI Pro DS</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other
 Start Purge Time: 1105 Flow Rate: 300 mL/min Pump Depth: 9ft

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to Water (ft.)
1108	11.9	7.40	948	50	1.49	-23.1	900	6.19
1111	11.6	7.39	921	29	1.18	-33.0	1800	6.19
1114	11.5	7.39	893	26	1.00	-48.0	2700	6.19
1117	11.6	7.38	862	25	1.00	-53.2	3600	6.19
1120	11.6	7.37	864	24	0.96	-54.6	4500	6.19

Did well dewater? Yes <u>No</u>	Amount actually evacuated: <u>4500 mL</u>
Sampling Time: <u>1123</u>	Sampling Date: <u>3/9/21</u>
Sample I.D.: <u>MW-40-03092021</u>	Laboratory: <u>Pule</u>
Analyzed for: <u>TPH-G BTEX MTBE TPH-D</u>	<u>Other</u> <u>See C.C</u>
Equipment Blank I.D.: <u>@</u>	Duplicate I.D.: <u>BD-MH-34-03092021</u>

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LOW FLOW WELL MONITORING DATA SHEET

Project #: 210308-AW1	Client: Parsons
Sampler: AH	Gauging Date: _____
Well I.D.: MW-41	Well Diameter (in.) : 2 3 4 6 8 _____
Total Well Depth (ft.) : _____	Depth to Water (ft.) : _____
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVC</u> Grade	Flow Cell Type: _____

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other _____
Start Purge Time: _____ Flow Rate: _____ Pump Depth: _____

[illegible]

Did well dewater? Yes No		Amount actually evacuated: _____	
Sampling Time: _____		Sampling Date: _____	
Sample I.D.: _____		Laboratory: _____	
Analyzed for: TPH-G BTEX MTBE TPH-D		Other: _____	
Equipment Blank I.D.: _____ @ _____ Time		Duplicate I.D.: _____	

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LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210308-AV1</u>	Client: <u>Parsons</u>
Sampler: <u>AH</u>	Gauging Date: _____
Well I.D.: <u>MV-42</u>	Well Diameter (in.): 2 3 4 6 8 _____
Total Well Depth (ft.): _____	Depth to Water (ft.): _____
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: PVC Grade	Flow Cell Type: _____

Purge Method: <u>2" Grundfos Pump</u>	Peristaltic Pump	Bladder Pump	
Sampling Method: <u>Dedicated Tubing</u>	New Tubing	Other	
Start Purge Time: _____	Flow Rate: _____	Pump Depth: _____	

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
_____	_____	_____	_____	_____	_____	_____	_____	_____

Did well dewater? Yes No	Amount actually evacuated: _____
Sampling Time: _____	Sampling Date: _____
Sample I.D.: _____	Laboratory: _____
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: _____
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

WELL MONITORING DATA SHEET

Project #: <u>210308-AU1</u>	Station #: <u>MH-39</u>
Sampler: <u>AH</u>	Date: <u>3/9/21</u>
Well I.D.: <u>MH-29</u>	Well Diameter: 2 3 4 6 8 <u>Munhole</u>
Total Well Depth: _____	Depth to Water: _____
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: _____ PVC _____ Grade	
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method:

☐ Bailer
☐ Disposable Bailer
☐ Positive Air Displacement
☐ Electric Submersible
 Other: _____

☐ Waterra
☐ Peristaltic
☐ Extraction Pump

Sampling Method:

☐ Bailer
☐ Disposable Bailer
☐ Extraction Port
☐ Dedicated Tubing
 Other: _____

Instruments Used:

☐ Myron L Ultrameter
☐ Durham Geoslope Indicator
☐ GeoTech Interface Probe
☐ MMC Interface Probe
☐ HACH Turbidimeter
☐ YSI 556 Flow-Thru Cell
☐ YSI 550 DO Meter
 Other: _____

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

(Gals.) X _____	= _____ Gals.	
I Case Volume	Specified Volumes	Calculated Volume

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations/ DTW
_____	_____	_____	Unable	to locate	_____	_____

Did well dewater? Yes ☐ No ☐		Gallons actually evacuated: _____	
Sampling Date: _____		Sampling Time: _____	
Sample I.D.: _____		Depth to Water: _____	
Laboratory: _____		Test America ☐ Other: _____	
Analyzed for: GRO ☐ BTEX ☐ OXYS ☐ ETHANOL ☐ Other: _____			
Duplicate I.D.: _____			
Analyzed for: GRO ☐ BTEX ☐ OXYS ☐ ETHANOL ☐ Other: _____			
D.O. (if req'd):	Pre-purge: _____ mg/L	Post-purge: _____ mg/L	
O.R.P. (if req'd):	Pre-purge: _____ mV	Post-purge: _____ mV	

WELL MONITORING DATA SHEET

Project #: <u>210308-AV1</u>	Station #: <u>MH-34</u>
Sampler: <u>AH</u>	Date: <u>3/8/21</u>
Well I.D.: <u>MH-34</u>	Well Diameter: 2 3 4 6 8 <u>Manhole</u>
Total Well Depth: <u> </u>	Depth to Water: <u> </u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
Referenced to: PVC <u>Grade</u>	
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method:

Bailer
 Disposable Bailer
 Positive Air Displacement
 Electric Submersible
 Other: _____

Waterria
 Peristaltic
 Extraction Pump

Sampling Method:

Bailer
Disposable Bailer
 Extraction Port
 Dedicated Tubing
 Other: _____

Instruments Used:

Myron L Ultrameter
 Durham Geoslope Indicator
 GeoTech Interface Probe
 MMC Interface Probe
 HACH Turbidimeter
 YSI 556 Flow-Thru Cell
 YSI 550 DO Meter
 Other: _____

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Model #: _____	Screen Interval: _____	Pump Depth: _____
_____ (Gals.) X _____ = _____ Gals. I Case Volume Specified Volumes Calculated Volume		

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations/ DTW
			<u>No Purge Sample Taken</u>			
<u>1551</u>	<u>12.7</u>	<u>7.49</u>	<u>612</u>	<u>38</u>	<u>—</u>	<u>Flowing SE</u>

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: 3/8/21 Sampling Time: 1551 Depth to Water:

Sample I.D.: MH-34-03082021 Laboratory: Test America Other: Pull

Analyzed for: GRO BTEX OXYS ETHANOL Other: See Col

Duplicate I.D.: _____ Analyzed for: GRO BTEX OXYS ETHANOL Other: _____

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: <u>210308-AV1</u>	Station #: <u>MH-34</u>
Sampler: <u>AH</u>	Date: <u>3/4/21</u>
Well I.D.: <u>MH-32</u>	Well Diameter: 2 3 4 6 8 <u>Manhole</u>
Total Well Depth: <u> </u>	Depth to Water: <u> </u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
Referenced to: PVC <u>Grade</u>	
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method:

Bailer
 Disposable Bailer
 Positive Air Displacement
 Electric Submersible
 Other: _____
 Model #: _____ Screen Interval: _____

Sampling Method:

Bailer
Disposable Bailer
 Extraction Port
 Dedicated Tubing
 Other: _____
 Pump Depth: _____

Instruments Used:

Myron L Ultrameter HACH Turbidimeter
 Durham Geoslope Indicator YSI 556 Flow-Thru Cell
 GeoTech Interface Probe YSI 550 DO Meter
 MMC Interface Probe Other: _____

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

(Gals.) X		=	Gals.
I Case Volume	Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations/ DTW
			<u>No Purge Sample Taken</u>			
<u>1427</u>	<u>11.5</u>	<u>7.37</u>	<u>721</u>	<u>42</u>	<u>—</u>	<u>Flowing West</u>

Did well dewater? Yes <u>No</u>		Gallons actually evacuated:	
Sampling Date: <u>3/4/21</u>		Sampling Time: <u>1427</u> Depth to Water:	
Sample I.D.: <u>MH-32-03092021</u>		Laboratory: Test America <u>Other: PACE</u>	
Analyzed for: GRO BTEX OXYS ETHANOL <u>Other: See Loc</u>			
Duplicate I.D.:		Analyzed for: GRO BTEX OXYS ETHANOL Other:	
D.O. (if req'd):	Pre-purge:	<u> </u> mg/L	Post-purge: <u> </u> mg/L
O.R.P. (if req'd):	Pre-purge:	<u> </u> mV	Post-purge: <u> </u> mV

WELL MONITORING DATA SHEET

Project #: <u>210308-AU1</u>	Station #: <u>MH-34</u>
Sampler: <u>AW</u>	Date: <u>3/9/21</u>
Well I.D.: <u>MH-33</u>	Well Diameter: 2 3 4 6 8 <u>manhole</u>
Total Well Depth: _____	Depth to Water: _____
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: PVC <u>Grade</u>	
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method:

Bailer
 Disposable Bailer
 Positive Air Displacement
 Electric Submersible
 Other: _____

Sampling Method:

Bailer
Disposable Bailer
 Extraction Port
 Dedicated Tubing
 Other: _____
 Pump Depth: _____

Instruments Used:

Myron L Ultrameter
 Durham Geoslope Indicator
 GeoTech Interface Probe
 MMC Interface Probe
 HACH Turbidimeter
 YSI 556 Flow-Thru Cell
 YSI 550 DO Meter
 Other: YSI Pro DSS

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

(Gals.) X _____	= _____ Gals.	
1 Case Volume	Specified Volumes	Calculated Volume

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations/ DTW
_____	_____	_____	<u>NO Purge</u>	<u>Sample taken</u>	_____	_____
1437	13.0	7.81	764	27	—	Flowing west

Did well dewater? Yes No Gallons actually evacuated: _____

Sampling Date: 3/9/21 Sampling Time: 1437 Depth to Water: _____

Sample I.D.: MH-33-03092021 Laboratory: Test America Other: PACE

Analyzed for: GRO BTEX OXYS ETHANOL Other: See Loc

Duplicate I.D.: _____ Analyzed for: GRO BTEX OXYS ETHANOL Other: _____

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: <u>210308-AV1</u>	Station #: <u>MH-34</u>
Sampler: <u>AW</u>	Date: <u>3/8/21</u>
Well I.D.: <u>MH-34</u>	Well Diameter: 2 3 4 6 8 <u>runhole</u>
Total Well Depth: <u> </u>	Depth to Water: <u> </u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
Referenced to: <u>PVC</u> Grade	
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u> </u>	

Purge Method:

Bailer
Disposable Bailer

Positive Air Displacement

Electric Submersible

Other:

Model #: Screen Interval:

Sampling Method:

Bailer
Disposable Bailer

Extraction Port

Dedicated Tubing

Other:

Pump Depth:

Instruments Used:

Myron L Ultrameter HACH Turbidimeter
Durham Geoslope Indicator YSI 556 Flow Thru Cell
GeoTech Interface Probe YSI 550 DO Meter
MMC Interface Probe Other:

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

<u> </u> (Gals.) X	<u> </u> =	<u> </u> Gals.
1 Case Volume	Specified Volumes	Calculated Volume

Time	Temp (°F)	pH	Cond (mS or <u>μS</u>)	Turbidity (NTUs)	Gals. Removed	Observations/ DTW
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u>1615</u>	<u>11.4</u>	<u>7.76</u>	<u>724</u>	<u>76</u>	<u> </u>	<u>Flowing South</u>

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: 3/8/21 Sampling Time: 1615 Depth to Water:

Sample I.D.: MH-34-0308-2021 Laboratory: Test America Other: PACE

Analyzed for: GRO BTEX OXYS ETHANOL Other: Sec Col

Duplicate I.D.: Analyzed for: GRO BTEX OXYS ETHANOL Other:

D.O. (if req'd):	Pre-purge:	<u> </u> mg/L	Post-purge:	<u> </u> mg/L
O.R.P. (if req'd):	Pre-purge:	<u> </u> mV	Post-purge:	<u> </u> mV

WELL MONITORING DATA SHEET

Project #: <u>210308-AU1</u>	Station #: <u>MH-34</u>
Sampler: <u>AH</u>	Date: <u>3/9/21</u>
Well I.D.: <u>MH-38</u>	Well Diameter: 2 3 4 6 8 <u>runhole</u>
Total Well Depth: _____	Depth to Water: _____
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: PVC <u>Grade</u>	
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method:

☒ Bailer
☐ Disposable Bailer
☐ Positive Air Displacement
☐ Electric Submersible
 Other: _____

Sampling Method:

☒ Bailer
☐ Disposable Bailer
☐ Extraction Port
☐ Dedicated Tubing
 Other: _____
 Pump Depth: _____

Instruments Used:

☒ Myron L Ultrameter
☐ Durham Geoslope Indicator
☐ GeoTech Interface Probe
☐ MMC Interface Probe
☐ HACH Turbidimeter
☐ YSI 556 Flow-Thru Cell
☐ YSI 550 DO Meter
 Other: _____

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

(Gals.) X _____	= _____ Gals.	
1 Case Volume	Specified Volumes	Calculated Volume

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations/ DTW
_____	_____	_____	<u>Unable to locate</u>	_____	_____	_____
_____	_____	_____	<u>No sample taken</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

Did well dewater? Yes ☐ No ☒		Gallons actually evacuated: _____	
Sampling Date: _____		Sampling Time: _____	
Sample I.D.: _____		Depth to Water: _____	
Laboratory: _____		Test America ☐ Other: _____	
Analyzed for: GRO BTEX OXYS ETHANOL Other: _____			
Duplicate I.D.: _____			
Analyzed for: GRO BTEX OXYS ETHANOL Other: _____			
D.O. (if req'd):	Pre-purge:	<u>mg/L</u>	Post-purge: <u>mg/L</u>
O.R.P. (if req'd):	Pre-purge:	<u>mV</u>	Post-purge: <u>mV</u>

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210308-AU1</u>	Client: <u>Parsens</u>
Sampler: <u>AW</u>	Gauging Date: <u>3/8/21</u>
Well I.D.: <u>DMW-2</u>	Well Diameter (in.): <u>(2)</u> 3 4 6 8
Total Well Depth (ft.): <u>19.92</u>	Depth to Water (ft.): <u>7.00</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
Referenced to: <u>(PVC)</u> Grade	Flow Cell Type: <u>YSI Pro DSS</u>

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
 Sampling Method: (Dedicated Tubing) New Tubing Other —
 Start Purge Time: 1549 Flow Rate: 200 mL/min Pump Depth: 12.92

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or (<u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to Water (ft.)
1552	13.2	7.63	692	33	4.90	39.1	600	7.04
1555	13.3	7.53	685	33	4.69	39.2	1200	7.05
1558	13.4	7.52	681	32	4.74	38.1	1800	7.05
1601	13.4	7.52	678	32	4.80	37.2	2400	7.05
1604	13.4	7.52	676	32	4.74	36.6	3000	7.05

Did well dewater? Yes <u>(No)</u>	Amount actually evacuated: <u>3000 mL</u>
Sampling Time: <u>1607</u>	Sampling Date: <u>3/9/21</u>
Sample I.D.: <u>DMW-2-03092021</u>	Laboratory: <u>Pace</u>
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: <u>(See Col)</u>
Equipment Blank I.D.: <u>@</u>	Duplicate I.D.: <u>Time</u>

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LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210308-AV1</u>	Client: <u>Parsons</u>
Sampler: <u>AW</u>	Gauging Date: <u>3/9/21</u>
Well I.D.: <u>DMV-4</u>	Well Diameter (in.): <u>2</u> 3 4 6 8
Total Well Depth (ft.): <u>16.80</u>	Depth to Water (ft.): <u>6.10</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI pro DSS</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0832 Flow Rate: 200 mL/min Pump Depth: 11

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0835	9.5	7.61	659	32	1.13	25.60	600	6.20
0838	9.7	7.42	656	31	1.00	20.80	1200	6.30
0841	10.3	7.33	659	30	0.89	10.90	1800	6.30
0844	10.4	7.29	657	30	0.86	8.70	2400	6.30
0847	10.4	7.27	656	30	0.89	3.60	3000	6.30

Did well dewater? Yes <u>No</u>	Amount actually evacuated: <u>3000 mL</u>
Sampling Time: <u>0850</u>	Sampling Date: <u>3/9/21</u>
Sample I.D.: <u>DMV-4-03092021</u>	Laboratory: <u>Pace</u>
Analyzed for: <u>TPH-G BTEX MTBE TPH-D</u>	Other: <u>See Col</u>
Equipment Blank I.D.: <u>@</u>	Duplicate I.D.: <u>Time</u>

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LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210308-AW1</u>	Client: <u>Parsons</u>
Sampler: <u>AH</u>	Gauging Date: <u>3/8/21</u>
Well I.D.: <u>DMW-5</u>	Well Diameter (in.): <u>2</u> 3 4 6 8
Total Well Depth (ft.): <u>18.75</u>	Depth to Water (ft.): <u>6.43</u>
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI Pro O/S</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0840 Flow Rate: 300 mL/min Pump Depth: 13

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>ml</u>)	Depth to Water (ft.)
0843	10.9	7.04	1040	10	1.75	-66.8	400.	6.50
0846	11.2	7.05	1049	11	1.39	-89.7	1800	6.51
0849	11.6	7.06	1055	10	1.16	-107.4	2700	6.51
0852	11.4	7.08	1036	9	1.07	-111.6	3600	6.52
0855	11.5	7.12	1031	9	1.09	-112.2	4500	6.51

Did well dewater? Yes <u>No</u>	Amount actually evacuated: <u>4500 mL</u>
Sampling Time: <u>0858</u>	Sampling Date: <u>3/10/21</u>
Sample I.D.: <u>DMW-5-03102021</u>	Laboratory: <u>Test America Pace</u>
Analyzed for: <u>TPH-G BTEX MTBE TPH-D</u>	Other: <u>See CoC</u>
Equipment Blank I.D.: <u>@</u>	Duplicate I.D.: _____

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

BP Site Node Path:

BP>USA>WA>WA-MH-34 (Manhole 34 Project Site)

Req Due Date (mm/dd/yy):

Rush TAT Yes No XXX

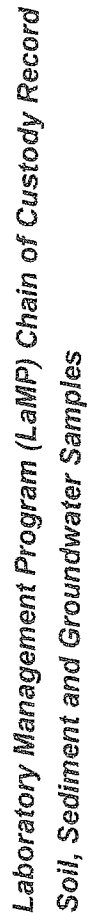
Lab Work Order Number:

Page 1 of 1

Lab Name: Pace Analytical National		BP/ARC Facility Address: 6th St. & Yakima Valley Hwy		Consultant/Contractor: Parsons	
Lab Address: 12065 Lebanon Rd, Mount Juliet, TN 37122		City, State, ZIP Code: Sunnyside, WA		Consultant/Contractor Project No:	
Lab PM: Jared Starkey		Lead Regulatory Agency:		Address:	
Lab Phone: 615-773-9698		California Global ID No.:		Consultant/Contractor PM: Cynthia Oppenheimer	
Lab Shipping Acct:		Enfos Proposal No: D01BZ-0001		Phone: 925-324-4895	
Lab Bottle Order No:		Accounting Mode: Provision (10)		Send/Submit EDD to: cynthia.oppenheimer@parsons.com	
Other Info:		Stage 70 Activity 116		Invoice To: PARSONS - BP-RM Enfos BP-Other	
BP/RM PM: John Frankenthal		Sample Details		Requested Analyses	
PM Phone: 331-236-1391		Total Number of Containers		Report Type & QC Level	
PM Email: john.frankenthal@bp.com		Grab (G) or Composite (C)		Limited (Standard) Package XX	
		Depth Unit		Limited Plus Package	
		End Depth		Full Package	
		Start Depth			
		Field Matrix			
Lab No.	Sample Description	Date	Time		
MW-1-03082021	3/8/21	16:46			
MW-2-03092021	3/9/21	10:14			
MW-8-03092021	3/9/21	12:24			
MW-10-03092021	3/9/21	11:14			
MW-11-03092021	3/9/21	10:18			
MW-12-03092021	3/9/21	12:21			
MW-16-03092021	3/9/21	11:51			
Sampler's Name: Andrew Wiser, Adam High		Relinquished By / Affiliation		Date	
Sampler's Company: Parsons		3/10/21		3/10/21	
Ship Method: FedEx		Ship Date: 3/10/21		Shipped Via FedEx	
Shipment Tracking No:					
Special Instructions:					
THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No Temp Blank: Yes / No Cooler Temp on Receipt: °F/C Trip Blank: Yes / No MS/MSD Sample Submitted: Yes / No					

BP LAMP Soil/H2O COC July 2018

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Req Due Date (mm/dd/yy): _____ Rush TAT Yes _____ No XXX

Lab Work Order Number: _____

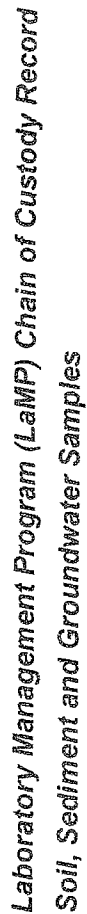
BP Site Node Path: BP>USA>WA>WA-MH-34 (Manhole 34 Project Site)

Lab Work Order Number:

Lab Name: Pace Analytical National		BP/ARC Facility Address: 6th St. & Yakima Valley Hwy		Consultant/Contractor: Parsons	
Lab Address: 12065 Lebanon Rd, Mount Juliet, TN 37122		City, State, ZIP Code: Sunnyside, WA		Consultant/Contractor Project No:	
Lab PM: Jared Starkey		Lead Regulatory Agency:		Address:	
Lab Phone: 615-773-9698		California Global ID No.:		Consultant/Contractor PM: Cynthia Oppenheimer	
Lab Shipping Acct:		Enfos Proposal No: D01BZ-0001		Phone: 925-324-4895	
Lab Bottle Order No:		Accounting Mode: Provision (10)		Send/Submit EDD to: cynthia.oppenheimer@parsons.com	
Other Info:		Stage 70 Activity 116		Invoice To: PARSONS -- BP-RM Enfos BP-Other	
BP/RM PM: John Frankenthal		Sample Details		Requested Analyses	
PM Phone: 331-236-1391		Total Number of Containers		Report Type & QC Level	
PM Email: john.frankenthal@bp.com		Grab (G) or Composite (C)		Limited (Standard) Package XX	
		Depth Unit		Limited Plus Package	
		End Depth		Full Package	
		Start Depth			
		Field Matrix			
Lab No.	Sample Description	Date	Time		
	MV-20-0303 2021	3/8/21	15:57		
	MV-25-0309 2021	3/9/21	15:29		
	MV-27-0310 2021	3/10/21	09:08		
	MV-30-0309 2021	3/9/21	12:54		
	MV-31-0310 2021	3/10/21	09:42		
	MV-32-0309 2021	3/9/21	15:38		
	MV-33-0310 2021	3/10/21	09:38		
Sampler's Name: Andrew Kaiser, Adam High				Relinquished By / Affiliation	
Sampler's Company: Parsons				Date	
Ship Method: FedEx				Time	
Shipment Tracking No:				Accepted By / Affiliation	
Special Instructions:				Date	
THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No Temp Blank: Yes / No Cooler Temp on Receipt: °F/C Trio Blank: Yes / No MS/MSD Sample Submitted: Yes / No				Shipped Via FedEx	

BP LAMP Soil/H2O COC: July 2018

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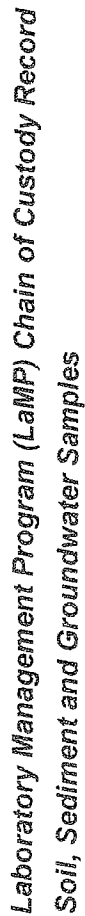
Req Due Date (mm/dd/yy):

Lab Work Order Number:

Lab Name: Pace Analytical National		BP/ARC Facility Address: 6th St. & Yakima Valley Hwy		Consultant/Contractor: Parsons	
Lab Address: 12065 Lebanon Rd, Mount Juliet, TN 37122		City, State, ZIP Code: Sunnyside, WA		Consultant/Contractor Project No:	
Lab PM: Jared Starkey		Lead Regulatory Agency:		Address:	
Lab Phone: 615-773-9698		California Global ID No.:		Consultant/Contractor PM: Cynthia Oppenheimer	
Lab Shipping Acct:		Enfos Proposal No: D01BZ-0001		Phone: 925-324-4895	
Lab Bottle Order No:		Accounting Mode: Provision (10)		Send/Submit EDD to: cynthia.oppenheimer@parsons.com	
Other Info:		Stage 70 Activity 116		Invoice To: PARSONS - BP-RM Enfos BP-Other	
BP/RRM PM: John Frankenthal		Sample Details		Requested Analyses	
PM Phone: 331-236-1391		Total Number of Containers		Report Type & QC Level	
PM Email: john.frankenthal@bp.com		Grab (g) or Composite (c)		Limited (Standard) Package XX	
		Depth Unit		Limited Plus Package	
		End Depth		Full Package	
		Start Depth			
		Field Matrix			
Lab No.	Sample Description	Date	Time		
	MW-39-03092021	3/4/21	1310		
	MW-40-03092021	3/4/21	1123		
	MW-31-03092021	3/8/21	1351		
	MW-32-03092021	3/4/21	1437		
	MW-23-03092021	3/4/21	1437		
	MW-34-03082021	3/8/21	1615		
	DMW-2-03092021	3/4/21	1607		
Sampler's Name: Andrew Wiser, Adam High				Date	
Sampler's Company: Parsons				Time	
Ship Method: FedEx				Date	
Shipment Tracking No:				Time	
Special Instructions:				Date	
THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No				*F/C	
Temp Blank: Yes / No				Trio Blank: Yes / No	
Cooler Temp on Receipt:				MS/MSD Sample Submitted: Yes / No	

BP LaMP Soil/H₂O COC July 2018

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Req Due Date (mm/dd/yy): _____ Rush TAT Yes _____ No **XXX**

Lab Work Order Number: _____

Lab Name: Pace Analytical National	Lab Address: 12065 Lebanon Rd, Mount Juliet, TN 37122	Lab PM: Jared Starkey	Lab Phone: 615-773-9698	Lab Shipping Acct: 615-773-9698	Lab Bottle Order No:	Other Info:	BP/ARC Facility Address: 6th St. & Yakima Valley Hwy	City, State, ZIP Code: Sunnyside, WA	Lead Regulatory Agency:	California Global ID No.:	Enfros Proposal No: D01BZ-0001	Accounting Mode: Provision (10)	Stage 70	Activity 116	Invoice To: PARSONS	BP-RM Enfos BP-Other	Consultant/Contractor: Parsons	Consultant/Contractor Project No:	Address:	Consultant/Contractor PM: Cynthia Oppenheimer	Phone: 925-324-4895	Send/Submit EDD to: cynthia.oppenheimer@parsons.com								
Lab No.	Sample Description	Date	Time	Sample Details												Requested Analyses												Report Type & QC Level		
				Field Matrix	Start Depth	End Depth	Depth Unit	Grab (G) or Composite (C)	Total Number of Containers	Analysis	Pres	Fill																		
	DMU-4-03092021	3/9/21	0850	W				G 6	6	BTEX 83600 40m Amb-HCL			HCL	HCL	HCL															
	BD-MH-34-03092021	3/9/21	1200	W				G 6	6	MUTPH DX LUMVOSAT																				
	TR-MH034-03092021	3/8/21	0900	W				G 6	6																					
	DMU-5-03102021	3/10/21	0858	W				G 6	6																					
Sampler's Name: Andrew Waser, Admin High				Relinquished By / Affiliation				Date				Time				Accepted By / Affiliation				Date				Time						
Sampler's Company: Parsons				a w 1BTS				3/10/21								Shipped via FedEx														
Ship Method: FedEx				Ship Date: 3/10/21																										
Shipment Tracking No:																														
Special Instructions:																														
THIS LINE - LAB USE ONLY: Custody Seals in Place: Yes / No Temp Blank: Yes / No Cooler Temp on Receipt: °F/C Trio Blank: Yes / No MS/MSD Sample Submitted: Yes / No																														

WELLHEAD INSPECTION FORM

Client: Parsons Site: 6th Street & Yukim Valley Hwy Date: 3/8/21
 Job #: 210307-AVI Technician: Andrew Waser Page 1 of 3

Well ID	Well Inspected - No Corrective Action Required	Check indicates deficiency										Well Not Inspected (explain in notes)	Notes (list if cap or lick replaced, if there are access issues associated with repairs, if traffic control is required, if stand pipe damaged, or any specific details not covered by checklist)		
		Cap non-functional	Lock non-functional	Lock missing	Bolts missing (list qty)	Tabs stripped (list qty)	Tabs broken (list qty)	Annular seal incomplete	Apron damaged	Rim / Lid broken	Trip Hazard			Below Grade	Other (explain in notes)
MW-1				X											
MW-2				X	1/3	2/3	1/3								
MW-3				X											
MW-4				X											
MW-8				X											
MW-9				X											
MW-10				X											
MW-11				X											
MW-12				X											
MW-13				X											
MW-16				X											
MW-17				X											
MW-18				X											
MW-19				X											
MW-20				X											
MW-21				X											
MW-22				X											

NOTES: _____

WELLHEAD INSPECTION FORM

Client: Persons Site: 6th Street & Yukima Valley Hwy Date: 3/8/21
 Job #: 210308-AV1 Technician: Andrew Wiser Page 2 of 3

Well ID	Well Inspected - No Corrective Action Required	Check indicates deficiency										Well Not Inspected (explain in notes)	Notes (list if cap or lick replaced, if there are access issues associated with repairs, if traffic control is required, if stand pipe damaged, or any specific details not covered by checklist)		
		Cap non-functional	Lock non-functional	Lock missing	Bolts missing (list qty)	Tab stripped (list qty)	Tab broken (list qty)	Annular seal incomplete	Apron damaged	Rim / Lid broken	Trip Hazard			Below Grade	Other (explain in notes)
MU-23				X		2 1/2									
NW-24				X											
MU-25				X											Water Buret
MU-26				X											
MU-27				X											
MU-28				X											
MU-29				X											
MU-30				X											
MU-31				X		3/3									
MU-32				X											
MU-33				X											
MU-39				X											
MU-40				X											
MU-41				X											
MU-42				X											
DMW-1				X											
DMW-2				X											

NOTES: _____

WELLHEAD INSPECTION FORM

Client: Parsons Site: 6th Street & Yukon Valley Hwy Date: 3/8/21
 Job #: 26308-AV1 Technician: Andrew Waser Page 3 of 3

Well ID	Well Inspected - No Corrective Action Required	Check indicates deficiency											Well Not Inspected (explain in notes)	Notes (list if cap or lick replaced, if there are access issues associated with repairs, if traffic control is required, if stand pipe damaged, or any specific details not covered by checklist)	
		Cap non-functional	Lock non-functional	Lock missing	Bolts missing (list qty)	Tab stripped (list qty)	Tab broken (list qty)	Annular seal incomplete	Apron damaged	Rim / Lid broken	Trip Hazard	Below Grade			Other (explain in notes)
DMU-3				X											
DMU-4				X											
DMU-5				X											
DMU-6				X											
PU-1				X											
AI/VE2				X											

NOTES: _____

[illegible]

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME				PROJECT NUMBER			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
YSI Pro DSS	46854	3/8/21	4.0 pH 10.0 pH 7.0 250.7 mV 3900 μ S/cm	4.12 10.09 pH 7.10 248 mV 3874 μ S/cm	Within 10% ↓	5.2 °C	AH
							AH
YSI Pro DSS	46854	3/9/21	4.0 pH 10.0 pH 7.0 250.7 mV 3900 μ S/cm	4.08 10.14 pH 7.30 248 mV 3825 μ S/cm	Within 10% ↓	5.1 °C	AH
							AH
YSI Pro DSS	46854	3/10/21	4.0 pH 10.0 pH 7.0 250.7 mV 3900 μ S/cm	4.10 10.10 pH 7.08 251.1 mV 3829 μ S/cm	Within 10% ↓	5.1 °C	AH
							AH

WELL GAUGING DATA

Project # 210928-761 Date 9/28/21 Client Parsons

Site 6th St & Yakima valley Hwy sunnyside WA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
MW-1	1128	2					6.81	18.08		
MW-2	1112	2					6.55	16.59		
MW-3	1124	2	odor	—	—	—	6.95	14.16		sock
MW-4	1102	2	odor sheen	—	—	—	7.37	17.73		sock
MW-8	1019	2					6.65	16.75		
MW-9	1117	2					7.50	17.10		
MW-10	1442	2	odor	—	—	—	7.45	16.77		sock
MW-11	1528	2	odor	—	—	—	7.79	17.00		sock
MW-12	1334	2					7.79	17.37		
MW-15	1515	2					7.67	13.86		
MW-16	1300	2					8.52	13.53		
MW-17	1129	2					6.34	15.50		
MW-18	1248	2					6.32	13.55		
MW-19	1147	4					5.98	13.82		
MW-20	1600	2					9.02	12.92		
MW-21	1142	4					6.40	15.44		
MW-22	1132	4					6.41	15.70	✓	

WELL GAUGING DATA

Project # 210928-FK1 Date 9/28/21 Client Parsons

Site 6th St & Yakima valley Hwy SunnySide WA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
MW-23	1137	4					6.42	15.80		
MW-24	Unable to locate									
MW-25	1158	4					6.28	14.69		
MW-26	1450	4					6.80	15.18		*occupied in shop Gauges
MW-27	1250	4					9.54	18.70		
MW-28	1" id stuck on well									
MW-29	1555	2					7.53	42.60		
MW-30	1412	4					7.20	18.76		
MW-31	1243	4					6.43	18.60		
MW-32	1237	4					5.95	18.42		
MW-33	1233	4					5.73	18.95		
MW-39	1023	2					6.74	13.60		
MW-40	1027	2					6.64	12.79		
MW-41	Unable to locate									
MW-42	1053	2	odor				6.49	13.88		
DMW-1	1214	2					6.66	18.60		
DMW-2	1210	2					7.91	19.92	✓	

Project # 210928-FK1 Date 9/28/21 Client Parsons

[illegible]

LOW FLOW WELL MONITORING DATA SHEET

Project #: 210928-FK1	Client: Parsons
Sampler: FK	Gauging Date: 9/28/21
Well I.D.: MW-1	Well Diameter (in.): 2 3 4 6 8
Total Well Depth (ft.): 16.08 FK 18.02	Depth to Water (ft.): 6.81
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump

Peristaltic Pump

Bladder Pump

Sampling Method: Dedicated Tubing

New Tubing

Other

Start Purge Time: 1520 Flow Rate: 200 ml/min

Pump Depth: 11

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1523	17.78	6.86	1514	29	2.24	184.3	600	6.81
1526	17.79	6.88	1526	35	2.48	192.8	1200	6.81
1529	17.85	6.91	1537	28	2.10	195.6	1800	6.81
1532	17.89	6.95	1547	27	2.03	191.4	2400	6.81
1535	17.89	6.97	1554	29	1.98	195.8	3000	6.81

Did well dewater? Yes ☐ No ☒

Amount actually evacuated: 300 ml

Sampling Time: 1538

Sampling Date: 9/29/21

Sample I.D.: MW-1-19292021

Laboratory: FACE

Analyzed for: TPH-G BTX MTBE TPH-D

Other: _____

Equipment Blank I.D.: _____ @ _____ Time

Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 210928-FK1	Client: Parsons
Sampler: FK	Gauging Date: 9/28/21
Well I.D.: MW-2	Well Diameter (in.): 2 3 4 6 8
Total Well Depth (ft.): 16.59	Depth to Water (ft.): 6.55
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump

Sampling Method: Dedicated Tubing

Start Purge Time: 0949

Flow Rate: 200 mL/min

Bladder Pump

Other _____

Pump Depth: 11

[illegible]

Did well dewater? Yes (No)

Amount actually evacuated: 3000ml

Sampling Time: 1007

Sampling Date: 9/29/21

Sample I.D.: MW-2-09282021

Laboratory: Pace

Analyzed for: TPH-G BTEX MTBE TPH-D

Other: _____

Equipment Blank I.D.: _____ @ _____ Time

Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 210928-FK1	Client: Parsons
Sampler: FK	Gauging Date: 9/28/21
Well I.D.: MW-3	Well Diameter (in.): 2 3 4 6 8
Total Well Depth (ft.): 14.16	Depth to Water (ft.): 6.95
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump

Sampling Method: Dedicated Tubing

Peristaltic Pump

Bladder Pump

New Tubing

Other

Start Purge Time: 1052 Flow Rate: 300 mL/min

Pump Depth: 11

[illegible]

Did well dewater? Yes ☐ No ☒

Amount actually evacuated: 360 mL

Sampling Time: 113

Sampling Date: 9/29/21

Sample I.D.: MW-3-09292021

Laboratory: *Pace*

Analyzed for: TPH-G BTEX MTBE TPH-D

Other: _____

Equipment Blank I.D.: _____ @ _____ Time

Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 210928-FK1	Client: Parsons
Sampler: FK	Gauging Date: 9/28/21
Well I.D.: MW-4	Well Diameter (in.): 2 3 4 6 8
Total Well Depth (ft.): 17.73	Depth to Water (ft.): 7.37
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0910 Flow Rate: 200 mL/min Pump Depth: 12

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0913	9.12	6.52	1583	111	2.30	59.6	600	7.37
0916	18.50	6.48	1565	106	1.89	30.2	1200	7.37
0919	18.23	6.46	1549	99	1.70	14.2	1800	7.37
0922	18.30	6.42	1554	91	1.59	-7.7	2400	7.37
0925	18.31	6.40	1559	88	1.54	-2.3	3000	7.37
0928	18.37	6.39	1560	86	1.52	-5.0	3600	7.37
* While Purging well Shcen was noticed to appear mid-purge								

Did well dewater? Yes ☒ No	Amount actually evacuated: 3600 mL
Sampling Time: 0931	Sampling Date: 9/29/21
Sample I.D.: MW-4-09292021	Laboratory: face
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: _____
Equipment Blank I.D.: _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 210928-FK1	Client: Parsons
Sampler: FK	Gauging Date: 9/28/21
Well I.D.: MW-8	Well Diameter (in.): 2 3 4 6 8
Total Well Depth (ft.): 16.75	Depth to Water (ft.): 6.65
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: Y51 556

Purge Method: 2" Grundfos Pump

Sampling Method: ~~Dedicated Tubing~~

Peristaltic Pump

New Tubing

Bladder Pump

Other_____

Start Purge Time: 0716

Flow Rate: 200 ml/min

Pump Depth: 1

[illegible]

Did well dewater? Yes ☐ No ☒

Amount actually evacuated: 3000 mL

Sampling Time: 0734

Sampling Date: 9/29/21

Sample I.D.: MW-8-09282021

Laboratory: Pace

Analyzed for: TPH-C BTEX MTBE TPH-D

Other: _____

Equipment Blank I.D.: _____ @ _____ Time

Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 210928-FK1	Client: Parsons
Sampler: FK	Gauging Date: 9/28/21
Well I.D.: MW-10	Well Diameter (in.): 2 3 4 6 8
Total Well Depth (ft.): 16.77	Depth to Water (ft.): 7.50 ^{FK} 7.45
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YS/ 556

Purge Method: 2" Grundfos Pump

Peristaltic Pump

Bladder Pump

Sampling Method: Dedicated Tubing

New Tubing

Other

Start Purge Time: 1446

Flow Rate: 200 ml/min

Pump Depth: 12

[illegible]

Did well dewater? Yes ☐ No ☒

Amount actually evacuated: 300 mL

Sampling Time: 1504

Sampling Date: 9/28/11

Sample I.D.: MW-10-09282021

Laboratory: Pre

Analyzed for: ☒ TPH-G ☒ BTEX ☐ MTBE ☒ TPH-D

Other: _____

Equipment Blank I.D.: _____ @ _____ Time

Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 210928-FK1	Client: Parsons
Sampler: FK	Gauging Date: 9/28/21
Well I.D.: MW-11	Well Diameter (in.): 2 3 4 6 8
Total Well Depth (ft.): 17.00	Depth to Water (ft.): 7.45 ^{FK} 7.79
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

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LOW FLOW WELL MONITORING DATA SHEET

Project #: 210928-FK	Client: Parsons
Sampler: FK	Gauging Date: 9/28/21
Well I.D.: MW-12	Well Diameter (in.): 2 3 4 6 8
Total Well Depth (ft.): 17.37	Depth to Water (ft.): 7.79
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: PVC Grade	Flow Cell Type: YS/556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other _____
Start Purge Time: 1338 Flow Rate: 200 mL/min Pump Depth: 13

[illegible]

Did well dewater? Yes	No	Amount actually evacuated:	3000 mL
Sampling Time:	B56	Sampling Date:	9/28/21
Sample I.D.:	MW-12-09282021	Laboratory:	Pace
Analyzed for:	TPH-G BTEX MTBE TPH-D	Other:	
Equipment Blank I.D.:	@ Time	Duplicate I.D.:	BD-MH34-09282021

LOW FLOW WELL MONITORING DATA SHEET

Project #: 210928-FK1	Client: Parsons
Sampler: FK	Gauging Date: 9/28/21
Well I.D.: MW-20	Well Diameter (in.): 2 3 4 6 8
Total Well Depth (ft.): 12.92	Depth to Water (ft.): 9.02
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump

Sampling Method: Dedicated Tubing

Start Purge Time: 1605

Flow Rate: 200 ml/min

Pump Depth: 10.5

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1608	16.76	7.73	489	328	2.10	211.0	600	9.29
1611	16.58	7.49	603	212	1.80	206.7	1200	9.35
1614	16.65	7.44	709	145	1.61	193.4	1800	9.38
1617	16.63	7.45	781	110	1.54	185.8	2400	9.38
1620	16.60	7.42	785	115	1.49	179.8	3000	9.38
1623	16.60	7.51	787	107	1.47	176.9	3600	9.38

Did well dewater? Yes ☐ No ☒

Amount actually evacuated: 3600 mL

Sampling Time: 1626

Sampling Date: 9/28/21

Sample I.D.: MW-20-09782021

Laboratory: Acce

Analyzed for: TPH-G BTEX MTBE TPH-D

Other: _____

Equipment Blank I.D.: _____ @ _____ Time

Duplicate I.D.: _____

Project #: 210928-FK1	Client: PARSONS
Sampler: FK	Gauging Date: 9/28/21
Well I.D.: MW-25	Well Diameter (in.): 2 3 4 6 8
Total Well Depth (ft.): 14.69	Depth to Water (ft.): 6.28
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Pump Depth: 10

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Project #: 210928-FK1	Client: Parsons
Sampler: FK	Gauging Date: 9/28/21
Well I.D.: MW-27	Well Diameter (in.): 2 3 (4) 6 8
Total Well Depth (ft.): 18.72	Depth to Water (ft.): 9.54
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Pump Depth: 13

Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 210928-FK1	Client: PARSONS
Sampler: Fk	Gauging Date: 9/28/21
Well I.D.: MW-30	Well Diameter (in.): 2 3 4 6 8
Total Well Depth (ft.): 18.76	Depth to Water (ft.): 7.20
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: (PVC) Grade	Flow Cell Type: YSL 556

Purge Method: 2" Grundfos Pump

Sampling Method: Dedicated Tubing

Peristaltic Pump

New Tubing

Bladder Pump

Other

Start Purge Time: 1415

Flow Rate: 200 ml/min

Pump Depth: 12

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1418	17.55	7.21	1949	119	1.95	89.2	600	7.37
1421	17.67	7.11	1949	93	1.42	51.0	1200	7.42
1424	17.71	7.08	1953	66	1.27	6.8	1800	7.45
1427	17.72	7.07	1954	54	1.23	22.0	2400	7.48
1430	17.73	7.07	1951	52	1.17	-25.9	3000	7.50
1433	17.73	7.07	1950	50	1.12	-28.7	3600	7.50

Did well dewater? Yes ☐ No ☒

Amount actually evacuated: 3600 ml

Sampling Time: 1436

Sampling Date: 9/28/21

Sample I.D.: MW-30-09282021

Laboratory: Rice

Analyzed for: TPH-G BTEX MTBE TPH-D

Other: _____

Equipment Blank I.D.: _____ Time _____

Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 210928-FK1	Client: Parsons
Sampler: FK	Gauging Date: 9/28/21
Well I.D.: MW-31	Well Diameter (in.): 2 3 4 6 8
Total Well Depth (ft.): 18.60	Depth to Water (ft.): 6.43
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other _____
Start Purge Time: 120 Flow Rate: 200 mL/min Pump Depth: 12

[illegible]

Did well dewater? Yes ☐ No ☒	Amount actually evacuated: 3000 ml
Sampling Time: 1235	Sampling Date: 9/29/21
Sample I.D.: MW-31-09292021	Laboratory: 9/29/21 Page
Analyzed for: ☒ TPH-C ☒ BTEX ☐ MTBE ☒ TPH-D	Other: _____
Equipment Blank I.D.: @	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 210928-FK1	Client: PARSONS
Sampler: FK	Gauging Date: 9/28/21
Well I.D.: MW-32	Well Diameter (in.): 2 3 4 6 8
Total Well Depth (ft.): 18.42	Depth to Water (ft.): 5.95
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: (PVC) Grade	Flow Cell Type: Y51 556

Purge Method: 2" Grundfos Pump

Sampling Method: Dedicated Tubing

Start Purge Time: 1148 Flow Rate: 100

Peristaltic Pump

New Tubing

Bladder Pump

Other

Flow Rate: 200 mL/min

Pump Depth: 12

[illegible]

Did well dewater? Yes ☐ No ☒

Amount actually evacuated: 300 mL

Sampling Time: 1206

Sampling Date: 9/29/21

Sample I.D.: MW-32-09292021

Laboratory: Pace

Analyzed for: TPH-G BTEX MTBE TPH-D

Other: _____

Equipment Blank I.D.: _____ @ _____ Time

Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 210928-FK1	Client: Parsons
Sampler: FK	Gauging Date: 9/28/21
Well I.D.: MW-33	Well Diameter (in.): 2 3 4 6 8
Total Well Depth (ft.): 18.95	Depth to Water (ft.): 5.73
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: (PVC) Grade	Flow Cell Type: Y51 556

Purge Method: 2" Grundfos Pump

Sampling Method: Dedicated Tubing

Peristaltic Pump

Bladder Pump

New Tubing

Other

Start Purge Time: 1/23

Flow Rate: 200 ml/min

Pump Depth: 12

[illegible]

Did well dewater? Yes No

Amount actually evacuated: 3000 ml

Sampling Time: 1141

Sampling Date: 9/29/21

Sample I.D.: MW-33-09292021

Laboratory: Pero

Analyzed for: TPH-G BTEX MTBE TPH-D

Other: _____

Equipment Blank I.D.: _____ @ _____ Time

Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 210928-FK1	Client: Parsons
Sampler: FK	Gauging Date: 9/28/21
Well I.D.: MW-39	Well Diameter (in.): 2 3 4 6 8
Total Well Depth (ft.): 13.60	Depth to Water (ft.): 6.74
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump

Sampling Method: ~~Dedicated Tubing~~

Start Purge Time: 0816

Flow Rate: 200 mL/min

Bladder Pump

Other

Pump Depth: 10

[illegible]

Did well dewater? Yes ☐ No ☒

Amount actually evacuated: 3000 ml

Sampling Time: 0834

Sampling Date: 9/29/21

Sample I.D.: MW-39-19292021

Laboratory: Page

Analyzed for: TPH-G BTEX MTBE TPH-D

Other: _____

Equipment Blank I.D.:

Time

Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 210928-FK1	Client: Parsons
Sampler: FK	Gauging Date:
Well I.D.: MW-41	Well Diameter (in.): 2 3 4 6 8
Total Well Depth (ft.):	Depth to Water (ft.):
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type:

~~Bladder Pump~~

New Tubing

Flow Rate:

Pump Depth: _____

[illegible]

Amount actually evacuated:

Sampling Date:

Laboratory:

Other:

a

Time

Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 210928-FK1	Client: Parsons
Sampler: FK	Gauging Date: 9/28/21
Well I.D.: MW-42	Well Diameter (in.): 2 3 4 6 8
Total Well Depth (ft.): 13.88	Depth to Water (ft.): 6.49
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Sampling Method: Dedicated Tubing

Peristaltic Pump

Bladder Pump

Sampling Method:

New Tubing

Other

Start Purge Time: 0841

Flow Rate: 200 mL/min

Pump Depth: 10

[illegible]

Did well dewater? Yes ☐ No ☒

Amount actually evacuated: 3200 mL

Sampling Time: 08:59

Sampling Date: 9/29/21

Sample I.D.: MW-42-0929 2021

Laboratory: *Office*

Analyzed for: TPH-G BTEX MTBE TPH-D

Other: _____

Equipment Blank I.D.:

a Time

Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210928-Fk</u>	Client: <u>Parsons</u>
Sampler: <u>Fk</u>	Gauging Date: <u>9/28/21</u>
Well I.D.: <u>DMW-4</u>	Well Diameter (in.): <u>2</u> 3 4 6 8
Total Well Depth (ft.): <u>16.75</u>	Depth to Water (ft.): <u>6.42</u>
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1636 Flow Rate: 200 mL/min Pump Depth: 11

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1639	17.10	7.61	833	26	1.80	107.2	600	6.56
1642	17.04	7.60	853	17	1.42	90.1	1200	6.59
1645	17.00	7.60	855	18	1.25	75.7	1800	6.59
1648	16.94	7.62	858	19	1.21	74.0	2400	6.59
1651	16.91	7.63	857	18	1.17	70.5	3000	6.59

Did well dewater? Yes <u>No</u>	Amount actually evacuated: <u>3000 mL</u>
Sampling Time: <u>1654</u>	Sampling Date: <u>9/28/21</u>
Sample I.D.: <u>DMW-4-09282021</u>	Laboratory: <u>Pace</u>
Analyzed for: <u>TPH-G</u> <u>BTEX</u> MTBE <u>TPH-D</u>	Other: _____
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 210928-FK1	Client: Parsons
Sampler: FK	Gauging Date: 9/28/21
Well I.D.: DMW-5	Well Diameter (in.): 2 3 4 6 8
Total Well Depth (ft.): 19.00	Depth to Water (ft.): 6.77
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: PVC Grade	Flow Cell Type: Y51 556

Purge Method: 2" Grundfos Pump

Peristaltic Pump

Bladder Pump

Sampling Method: Dedicated Tubing

New Tubing

Other_

Start Purge Time: 1650

Flow Rate: 200 ml/min

Pump Depth: 13

[illegible]

Did well dewater? Yes ☐ No ☒

Amount actually evacuated: 3000 mL

Sampling Time: 1708

Sampling Date: 9/29/21

Sample I.D.: DMW-5-09292021

Laboratory: Pace

Analyzed for: TPH-G BTEX MTBE TPH-D

Other: _____

Equipment Blank I.D.: _____ @ _____ Time

Duplicate I.D.: _____

WELL MONITORING DATA SHEET

Project #: 210928-FK1	Station #:
Sampler: FK	Date: 9/28/21
Well I.D.: MH-29	Well Diameter: 2 3 4 6 8 <u>5</u>
Total Well Depth:	Depth to Water:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: ☐ PVC ☐ Grade	
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method:

☐ Bailer
☐ Disposable Bailer
☐ Positive Air Displacement
☐ Electric Submersible
 Other: _____
 Model #: _____ Screen Interval: _____

Sampling Method:

☐ Bailer
☐ Disposable Bailer
☐ Extraction Port
☐ Dedicated Tubing
 Other: _____
 Pump Depth: _____

Instruments Used:

☐ Myron L Ultrameter
☐ Durham Geoslope Indicator
☐ GeoTech Interface Probe
☐ MMC Interface Probe
☐ HACH Turbidimeter
☐ YSI 556 Flow-Thru Cell
☐ YSI 550 DO Meter
 Other: _____

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

_____ (Gals.) X _____	=	_____ Gals.
1 Case Volume	Specified Volumes	Calculated Volume

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations/ DTW
Unable to locate manhole no sample taken						

Did well dewater? ☐ Yes ☐ No	Gallons actually evacuated:
Sampling Date:	Sampling Time: Depth to Water:
Sample I.D.:	Laboratory: ☐ Test America ☐ Other: _____
Analyzed for: ☐ GRO ☐ BTEX ☐ OXYS ☐ ETHANOL ☐ Other:	
Duplicate I.D.:	Analyzed for: ☐ GRO ☐ BTEX ☐ OXYS ☐ ETHANOL ☐ Other:
D.O. (if req'd):	Pre-purge: mg/L Post-purge: mg/L
O.R.P. (if req'd):	Pre-purge: mV Post-purge: mV

WELL MONITORING DATA SHEET

Project #: <u>210928-FK1</u>	Station #:
Sampler: <u>FK</u>	Date: <u>9/29/21</u>
Well I.D.: <u>MH-31</u>	Well Diameter: 2 3 4 6 8 <u>Manhole</u>
Total Well Depth: <u> </u>	Depth to Water: <u> </u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
Referenced to: <u>PVC</u> <u>Grade</u>	<u> </u>
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u> </u>	

Purge Method:

Bailer Waterra
 Disposable Bailer Peristaltic
 Positive Air Displacement Extraction Pump
 Electric Submersible
 Other:

Sampling Method:

Bailer
Disposable Bailer
 Extraction Port
 Dedicated Tubing
 Other:
 Pump Depth:

Instruments Used:

Myron L Ultrameter HACH Turbidimeter
 Durham Geoslope Indicator YSI 556 Flow-Thru Cell
 GeoTech Interface Probe YSI 550 DO Meter
 MMC Interface Probe Other:

 (Gals.) X = Gals.
 1 Case Volume Specified Volumes Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp ^{°C} (°F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	Gals. Removed	Observations/ DTW
1410	12.58	7.58	589	15	—	—
— NO Purge Sample taken						
Manhole lid = 25 in						
Flow direction = SE						

Did well dewater? Yes (No) Gallons actually evacuated:

Sampling Date: 9/29/21 Sampling Time: 1410 Depth to Water:

Sample I.D.: MH-31-09292021 Laboratory: Test America (Other) Pace

Analyzed for: (GRO) (BTEX) OXYS ETHANOL (Other) See coc

Duplicate I.D.: Analyzed for: GRO BTEX OXYS ETHANOL Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: <u>210928-FK1</u>	Station #: _____
Sampler: <u>FK</u>	Date: <u>9/29/21</u>
Well I.D.: <u>MH-32</u>	Well Diameter: 2 3 4 6 8 <u>made</u>
Total Well Depth: _____	Depth to Water: _____
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVC</u> Grade	
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: _____	

Purge Method:

Bailer _____ Waterra _____
 Disposable Bailer _____ Peristaltic _____
 Positive Air Displacement _____ Extraction Pump _____
 Electric Submersible _____
 Other: _____

Sampling Method:

Bailer _____
Disposable Bailer
 Extraction Port _____
 Dedicated Tubing _____
 Other: _____
 Pump Depth: _____

Instruments Used:

Myron L Ultrameter _____ HACH Turbidimeter _____
 Durham Geoslope Indicator _____ YSI 556 Flow-Thru Cell _____
 GeoTech Interface Probe _____ YSI 550 DO Meter _____
 MMC Interface Probe _____ Other: _____

Model #: _____	Screen Interval: _____	Pump Depth: _____
$\frac{\text{_____ (Gals.)}}{\text{1 Case Volume}} \times \frac{\text{_____}}{\text{Specified Volumes}} = \frac{\text{_____}}{\text{Calculated Volume}} \text{ Gals.}$		

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp ^{°F}	pH	Cond. (mS or μ S)	Turbidity (NTUs)	Gals. Removed	Observations/ DTW
<u>NO PURGE Sample taken</u>						
1425	11.60	6.84	1086	15	_____	Flow: West made size: 20 in

Did well dewater? Yes ☐ No ☒		Gallons actually evacuated: _____	
Sampling Date: <u>9/29/21</u>		Sampling Time: <u>1425</u> Depth to Water: _____	
Sample I.D.: <u>MH-32-09292021</u>		Laboratory: Test America <u>Other: Pace</u>	
Analyzed for: <u>GRO</u> <u>BTEX</u> OXYS ETHANOL <u>Other: See COC</u>			
Duplicate I.D.: _____		Analyzed for: GRO BTEX OXYS ETHANOL Other: _____	
D.O. (if req'd):	Pre-purge: _____ mg/L	Post-purge: _____ mg/L	
O.R.P. (if req'd):	Pre-purge: _____ mV	Post-purge: _____ mV	

WELL MONITORING DATA SHEET

Project #: <u>210928-FK1</u>	Station #: <u> </u>
Sampler: <u>FK</u>	Date: <u>9/29/21</u>
Well I.D.: <u>MH-33</u>	Well Diameter: 2 3 4 6 8 <u>manhole</u>
Total Well Depth: <u> </u>	Depth to Water: <u> </u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
Referenced to: PVC Grade	
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u> </u>	

Purge Method:

Bailer Waterra
 Disposable Bailer Peristaltic
 Positive Air Displacement Extraction Pump
 Electric Submersible

Sampling Method:

Bailer
Disposable Bailer
 Extraction Port
 Dedicated Tubing

Instruments Used:

Myron L Ultrameter HACH Turbidimeter
 Durham Geoslope Indicator YSI 556 Flow-Thru Cell
 GeoTech Interface Probe YSI 550 DO Meter
 MMC Interface Probe Other:

Other: Other:
 Model #: Screen Interval: Pump Depth:

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

(Gals.) X	=	Gals.
1 Case Volume	Specified Volumes	Calculated Volume

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations/ DTW
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u>1610</u>	<u>11.44</u>	<u>6.78</u>	<u>1135</u>	<u>18</u>	<u> </u>	<u>Flow = west manhole size: 25 in</u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: 9/29/21 Sampling Time: 1610 Depth to Water:

Sample I.D.: MH-33-09292021 Laboratory: Test America Other: Pace

Analyzed for: GRO BTEX OXYS ETHANOL Other: see COC

Duplicate I.D.: Analyzed for: GRO BTEX OXYS ETHANOL Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 210928-Fk1	Station #: _____
Sampler: MH-34 Fk	Date: 9/29/21
Well I.D.: MH-34	Well Diameter: 2 3 4 6 8 <u>manhole</u>
Total Well Depth: _____	Depth to Water: _____
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: PVC Grade	
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: _____	

Purge Method:

Bailer
 Disposable Bailer
 Positive Air Displacement
 Electric Submersible
 Other: _____

Sampling Method:

Bailer
Disposable Bailer
 Extraction Port
 Dedicated Tubing
 Other: _____
 Pump Depth: _____

Instruments Used:

Myron L Ultrameter
 Durham Geoslope Indicator
 GeoTech Interface Probe
 MMC Interface Probe
 HACH Turbidimeter
 YSI 556 Flow-Thru Cell
 YSI 550 DO Meter
 Other: _____

Model #: _____ Screen Interval: _____
 _____ (Gals.) X _____ = _____ Gals.
 1 Case Volume Specified Volumes Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations/ DTW
— NO Purge sample taken —						
1635	12.70	8.21	777	44	—	Flow! south

Did well dewater? Yes <u>No</u>		Gallons actually evacuated: _____	
Sampling Date: 9/29/21		Sampling Time: 1635	
Depth to Water: _____		Sample I.D.: MH-34-09292021	
Laboratory: Test America		<u>Other</u> Ace	
Analyzed for: <u>GRO</u> <u>BTEX</u> OXYS ETHANOL <u>Other</u> See COC			
Duplicate I.D.: _____ Analyzed for: GRO BTEX OXYS ETHANOL Other: _____			
D.O. (if req'd):	Pre-purge:	mg/L	Post-purge: mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge: mV

WELL MONITORING DATA SHEET

Project #: <u>210928-FK1</u>	Station #: _____
Sampler: <u>FK</u>	Date: <u>9/28/21</u>
Well I.D.: <u>MH 38</u>	Well Diameter: 2 <u>3</u> 4 6 8 _____
Total Well Depth: _____	Depth to Water: _____
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: _____ PVC _____ Grade	
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: _____	

Purge Method:

Bailer _____ Waterra _____
 Disposable Bailer _____ Peristaltic _____
 Positive Air Displacement _____ Extraction Pump _____
 Electric Submersible _____
 Other: _____

Sampling Method:

Bailer _____
 Disposable Bailer _____
 Extraction Port _____
 Dedicated Tubing _____
 Other: _____
 Pump Depth: _____

Instruments Used:

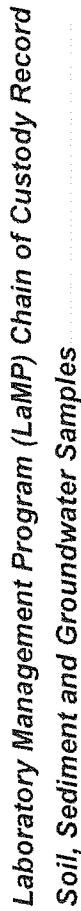
Myron L Ultrameter _____ HACH Turbidimeter _____
 Durham Geoslope Indicator _____ YSI 556 Flow-Thru Cell _____
 GeoTech Interface Probe _____ YSI 550 DO Meter _____
 MMC Interface Probe _____ Other: _____

Model #: _____	Screen Interval: _____	Pump Depth: _____
_____ (Gals.) X _____ = _____ Gals. 1 Case Volume Specified Volumes Calculated Volume		

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations/ DTW
- unable to locate well - no sample taken						

Did well dewater? Yes _____ No _____	Gallons actually evacuated: _____
Sampling Date: _____	Sampling Time: _____
Sample I.D.: _____	Laboratory: Test America Other: _____
Analyzed for: GRO BTEX OXYS ETHANOL Other: _____	
Duplicate I.D.: _____	Analyzed for: GRO BTEX OXYS ETHANOL Other: _____
D.O. (if req'd): _____	Pre-purge: _____ mg/L Post-purge: _____ mg/L
O.R.P. (if req'd): _____	Pre-purge: _____ mV Post-purge: _____ mV



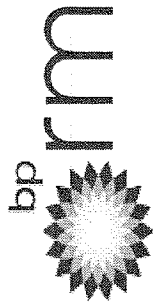
Req Due Date (mm/dd/yy):

No XXX

Lab Work Order Number:

Lab Name: Pace Analytical National		BP/ARC Facility Address: 6th St. & Yakima Valley Hwy		Consultant/Contractor: Parsons	
Lab Address: 12065 Lebanon Rd, Mount Juliet, TN 37122		City, State, ZIP Code: Sunnyside, WA		Consultant/Contractor Project No:	
Lab PM: Jared Starkey		Lead Regulatory Agency:		Address:	
Lab Phone: 615-773-9698		California Global ID No.:		Consultant/Contractor PM: Cynthia Oppenheimer	
Lab Shipping Acct:		Enfos Proposal No: D01BZ-0001		Phone: 925-324-4895	
Lab Bottle Order No:		Accounting Mode: Provision (10)		Send/Submit EDD to: cynthia.oppenheimer@parsons.com	
Other Info:		Stage 70 Activity 116		Invoice To: PARSONS - BP-RM Enfos BP-Other	
BP/RM PM: John Frankenthal		Sample Details		Requested Analyses	
PM Phone: 331-236-1391		Total Number of Containers		Limited (Standard) Package XX	
PM Email: john.frankenthal@bp.com		Grab (G) or Composite (C)		Limited Plus Package	
		Depth Unit		Full Package	
		End Depth			
		Start Depth			
		Field Matrix			
Lab No.	Sample Description	Date	Time		
MW-1-09292021	9/29/21	1538			
MW-2-09282021	9/28/21	1007			
MW-3-09292021	9/29/21	1113			
MW-4-09292021	9/29/21	0931			
MW-8-09292021	9/29/21	0734			
MW-10-09282021	9/28/21	1504			
MW-11-09292021	9/29/21	1039			
Sampler's Name: Foster Knerzel		Relinquished By / Affiliation		Date	Time
Sampler's Company: Parsons		[Signature]		9/30/21	1600
Ship Method: Fed Ex		Shipped via Fed Ex		9/30/21	1600
Shipment Tracking No:					
Special Instructions:					
THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No Temp Blank: Yes / No Cooler Temp on Receipt: °F/C Trip Blank: Yes / No MS/MSD Sample Submitted: Yes / No					

BP LaMP SoI/VH2O COC July 2018



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

Page 2 of 5

BP Site Node Path:

BP>USA>WA>WA-MH-34 (Manhole 34 Project Site)

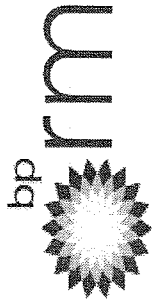
Req Due Date (mm/dd/yy):

Rush TAT Yes No XXX

Lab Work Order Number:

Lab Name: Pace Analytical National		BP/ARC Facility Address: 6th St. & Yakima Valley Hwy		Consultant/Contractor: Parsons	
Lab Address: 12065 Lebanon Rd, Mount Juliet, TN 37122		City, State, ZIP Code: Sunnyside, WA		Consultant/Contractor Project No:	
Lab PM: Jared Starkey		Lead Regulatory Agency:		Address:	
Lab Phone: 615-773-9698		California Global ID No.:		Consultant/Contractor PM: Cynthia Oppenheimer	
Lab Shipping Acct:		Entos Proposal No: D01BZ-0001		Phone: 925-324-4895	
Lab Bottle Order No:		Accounting Mode: Provision (10)		Send/Submit EDD to: cynthia.oppenheimer@parsons.com	
Other Info:		Stage 70 Activity 116		Invoice To: PARSONS BP-RM Enfos BP-Other	
BP/RM PM: John Frankenthal		Sample Details		Requested Analyses	
		Field Matrix		Report Type & QC Level	
		Start Depth		Limited (Standard) Package XX	
		End Depth		Limited Plus Package	
		Depth Unit		Full Package	
		Grab (G) or Composite (C)			
		Total Number of Containers			
		Analysis			
		NWTPH-Gx			
		BTEX (6260B)			
		NWTPH-DRO/HRO			
		Fill			
		Pres			
Lab No.		Sample Description		Date	
		Time			
MW-12-09282021		9/28/21		1356	
MW-16-09282021		9/28/21		1327	
MW-20-09282021		9/28/21		1626	
MW-25-09292021		9/29/21		1500	
MW-27-09292021		9/29/21		1359	
MW-30-09282021		9/28/21		1436	
MW-31-09292021		9/29/21		1235	
Sampler's Name: Foster Kretzel		Relinquished By / Affiliation		Date	
Sampler's Company: Parsons		BTS		9/30/21	
Ship Method: Fed Ex		Shipped via Fed Ex		9/30/21	
Ship Date: 9/30/21		Time		1600	
Shipment Tracking No:					
Special Instructions:					
THIS LINE - LAB USE ONLY: Custody Seals in Place: Yes / No		Temp Blank: Yes / No		Cooler Temp on Receipt: °F/C	
		Trip Blank: Yes / No		MSMSD Sample Submitted: Yes / No	

BP LaMP Soil/H2O COC July 2018

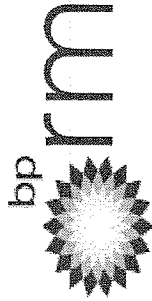


Laboratory Management Program (LaMP) Chain of Custody Record
Soil, Sediment and Groundwater Samples

Page 3 of 5

BP Site Node Path: BP>USA>WA>WA-MH-34 (Manhole 34 Project Site) Req Due Date (mm/dd/yyyy): Rush TAT Yes No XXX
Lab Work Order Number:

Lab Name: Pace Analytical National		BP/ARC Facility Address: 6th St. & Yakima Valley Hwy		Consultant/Contractor: Parsons	
Lab Address: 12065 Lebanon Rd, Mount Juliet, TN 37122		City, State, ZIP Code: Sunnyside, WA		Consultant/Contractor Project No:	
Lab PM: Jared Starkey		Lead Regulatory Agency:		Address:	
Lab Phone: 615-773-9698		California Global ID No.:		Consultant/Contractor PM: Cynthia Oppenheimer	
Lab Shipping Acct:		Enfos Proposal No: D01BZ-0001		Phone: 925-324-4895	
Lab Bottle Order No:		Accounting Mode: Provision (10)		Send/Submit EDO to: cynthia.oppenheimer@parsons.com	
Other Info:		Stage 70 Activity 116		Invoice To: PARSONS - BP-RM Enfos BP-Other	
BP/RM PM: John Frankenthal		Sample Details		Requested Analyses	
		Field Matrix		Report Type & QC Level	
		Start Depth		Limited (Standard) Package XX	
		End Depth		Limited Plus Package	
		Depth Unit		Full Package	
		Grab (G) or Composite (C)			
		Total Number of Containers			
		Analysis			
		NWTFH-Gx			
		STEX (s260B)			
		NWTFH-DRO/HRO			
		Pres			
		Fill			
Lab No.	Sample Description	Date	Time		
MW-32-09292021	9/29/21	1206			
MW-33-09292021	9/29/21	1141			
MW-34-09292021	9/29/21	0834			
MW-40-09292021	9/29/21	0804			
MW-42-09292021	9/29/21	0859			
DMW-2-09292021	9/29/21	1301			
DMW-4-09292021	9/28/21	1654			
Sampler's Name: Foster Kaefer				Relinquished By / Affiliation	
Sampler's Company: Parsons				Date Time	
Ship Method: Fed Ex				Accepted By / Affiliation Date Time	
Shipment Tracking No:				9/30/21 1600	
Special Instructions:				Shipped via Fed Ex	
THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No Temp Blank: Yes / No Cooler Temp on Receipt: °F/C Trip Blank: Yes / No MS/MSD Sample Submitted: Yes / No					



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

Page 4 of 5

BP Site Node Path: BP>USA>WA>WA-MH-34 (Manhole 34 Project Site) Req Due Date (mm/dd/yy): Rush TAT Yes No XXX
Lab Work Order Number:

Lab Name: Pace Analytical National		BP/ARC Facility Address: 6th St. & Yakima Valley Hwy		Consultant/Contractor: Parsons	
Lab Address: 12065 Lebanon Rd, Mount Juliet, TN 37122		City, State, ZIP Code: Sunnyside, WA		Consultant/Contractor Project No:	
Lab PM: Jared Starkey		Lead Regulatory Agency:		Address:	
Lab Phone: 615-773-9698		California Global ID No.:		Consultant/Contractor PM: Cynthia Oppenheimer	
Lab Shipping Acct:		Enfos Proposal No: D01BZ-0001		Phone: 925-324-4895	
Lab Bottle Order No:		Accounting Mode: Provision (10)		Send/Submit EDD to: cynthia.oppenheimer@parsons.com	
Other Info:		Stage 70 Activity 116		Invoice To: PARSONS -- BP-RM Enfos BP-Other	
BPRM PM: John Frankenthal				Report Type & QC Level	
		Sample Details		Requested Analyses	
		Field Matrix		Limited (Standard) Package XX	
		Start Depth		Limited Plus Package	
		End Depth		Full Package	
		Depth Unit			
		Grab (G) or Composite (C)			
		Total Number of Containers			
		Analysis			
		NWTPH-Gx			
		BTEX (8260B)			
		NWTPH-DRO/HRO			
		Fill			
		Pres			
Lab No.		Sample Description		Date	
PMW-5-07292021		9/29/21		1708	
MH-31-09292021		9/29/21		1410	
MH-32-07292021		9/29/21		1425	
MH-33-07292021		9/29/21		1610	
MH-34-07292021		9/29/21		1635	
BD-MH34-07282021		9/28/21		1200	
BD-MH34-07292021		9/29/21		1200	
Sampler's Name: Foster Koetzel		Relinquished By / Affiliation		Date	
Sampler's Company: Parsons		BTS		9/30/21 1600	
Ship Method: Fed Ex		Ship Date: 9/30/21		Shipped via Fed Ex	
Shipment Tracking No:					
Special Instructions:					
THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No Temp Blank: Yes / No Cooler Temp on Receipt: °F/C Trip Blank: Yes / No MSMSD Sample Submitted: Yes / No					

BP LaMP Soil/H2O COC July 2018



Rush TAT Yes

No XXX

Lab Work Order Number:

[illegible]BP LaMP Soil/H₂O COC July 2018

**Proprietary and Confidential
Property of BP and its Affiliates**

WELLHEAD INSPECTION FORM

Client: Parson Site: 6th St & Yakima Valley Hwy Date: 9/28/21
 Job #: 210928-PK1 Technician: Foster K Page 1 of 1

Well ID	Well Inspected - No Corrective Action Required	Check indicates deficiency										Well Not Inspected (explain in notes)	Notes (list if cap or lick replaced, if there are access issues associated with repairs, if traffic control is required, if stand pipe damaged, or any specific details not covered by checklist)		
		Cap non-functional	Lock non-functional	Lock missing	Bolts missing (list qty)	Tabs stripped (list qty)	Tabs broken (list qty)	Annular seal incomplete	Apron damaged	Rim / Lid broken	Trip Hazard			Below Grade	Other (explain in notes)
MW-1				X	2 1/2										
MW-2				X	1/3	2 1/3									
MW-3				X											
MW-4				X											
MW-8				X											Lid missing
MW-9				X											
MW-10				X											
MW-11				X	1										
MW-12				X											water bailed
MW-15				X	1				X						
MW-16				X	1										water bailed
MW-17				X											
MW-18				X	2 1/3										
MW-19				X											
MW-20				X	1/3	2 1/3									
MW-21				X	2 1/3										
MW-22				X	1/3	2 1/3									

NOTES: _____

WELLHEAD INSPECTION FORM

Client: Parsons Site: 6th St & Yakima Valley Hwy SunnySide WA Date: 9/28/21
 Job #: 210928-FK1 Technician: Foster K Page 2 of

Well ID	Well Inspected - No Corrective Action Required	Check indicates deficiency										Well Not Inspected (explain in notes)	Notes (list if cap or lick replaced, if there are access issues associated with repairs, if traffic control is required, if stand pipe damaged, or any specific details not covered by checklist)		
		Cap non-functional	Lock non-functional	Lock missing	Bolts missing (list qty)	Tabs stripped (list qty)	Tabs broken (list qty)	Annular seal incomplete	Apron damaged	Rim / Lid broken	Trip Hazard			Below Grade	Other (explain in notes)
MW-23				X	3/3										
MW-24															
MW-25				X	1/3	2/3									
MW-26				X	1/3	3/3									
MW-27				X	3/3										
MW-28															
MW-29				X	2/3										
MW-30				X											
MW-31				X	1/3	2/3									
MW-32				X	2/3										
MW-33				X	1/3	3/3									
MW-39				X											
MW-40				X	2/2										
MW-41															
MW-42				X	3/3										water bailed
DMW-1				X											
DMW-2				X	1/3	3/3									

NOTES: _____

WELLHEAD INSPECTION FORM

Client: Parsons Site: 6th St & Yakima Valley Hwy SunnySide WA Date: 9/28/21
 Job #: 210928-PK1 Technician: Foster K Page 3 of

Well ID	Well Inspected - No Corrective Action Required	Check indicates deficiency										Well Not Inspected (explain in notes)	Notes (list if cap or lick replaced, if there are access issues associated with repairs, if traffic control is required, if stand pipe damaged, or any specific details not covered by checklist)		
		Cap non-functional	Lock non-functional	Lock missing	Bolts missing (list qty)	Tabs stripped (list qty)	Tabs broken (list qty)	Annular seal incomplete	Apron damaged	Rim / Lid broken	Trip Hazard			Below Grade	Other (explain in notes)
DMW-3				X											
DMW-4				X					X						
DMW-5				X											
DMW-6				X											
RW-1				X	4										
AI VE-2	X			X											
TB-MH304-111911															

NOTES: _____

APPENDIX B

CERTIFIED LABORATORY ANALYTICAL REPORT

BPLAMP - Parsons

Sample Delivery Group: L1326434

Samples Received: 03/12/2021

Project Number:

Description:

Report To: Cynthia Oppenheimer
9101 Burnet Road
Suite 210
Austin, TX 78758

Entire Report Reviewed By:



Jared Starkey
Project Manager

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

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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MW-32-03092021 L1326434-18	26
MW-33-03092021 L1326434-19	27
MW-34-03082021 L1326434-20	28
DMW-2-03092021 L1326434-21	29
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¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
⁷ Gl
⁸ Al
⁹ Sc

SAMPLE SUMMARY

MW-1-03082021 L1326434-01 GW

				Collected by AW/AH	Collected date/time 03/08/21 16:46	Received date/time 03/12/21 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1636056	1	03/17/21 18:22	03/17/21 18:22	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1635374	1	03/16/21 12:12	03/16/21 12:12	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1636176	1	03/19/21 03:24	03/20/21 23:20	JN	Mt. Juliet, TN

MW-2-03092021 L1326434-02 GW

				Collected by AW/AH	Collected date/time 03/09/21 10:19	Received date/time 03/12/21 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1636056	1	03/17/21 18:46	03/17/21 18:46	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1635374	1	03/16/21 12:32	03/16/21 12:32	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1636176	1	03/19/21 03:24	03/20/21 23:46	JN	Mt. Juliet, TN

MW-8-03092021 L1326434-03 GW

				Collected by AW/AH	Collected date/time 03/09/21 12:24	Received date/time 03/12/21 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1636056	1	03/17/21 19:10	03/17/21 19:10	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1635374	1	03/16/21 12:51	03/16/21 12:51	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1636176	1	03/19/21 03:24	03/21/21 00:11	JN	Mt. Juliet, TN

MW-10-03092021 L1326434-04 GW

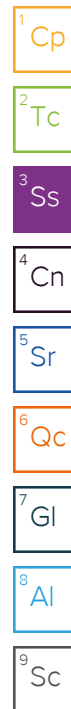
				Collected by AW/AH	Collected date/time 03/09/21 11:14	Received date/time 03/12/21 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1636067	1	03/18/21 02:17	03/18/21 02:17	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1635374	1	03/16/21 13:11	03/16/21 13:11	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1636176	1	03/19/21 03:24	03/21/21 00:37	JN	Mt. Juliet, TN

MW-11-03092021 L1326434-05 GW

				Collected by AW/AH	Collected date/time 03/09/21 10:18	Received date/time 03/12/21 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1638083	20	03/21/21 21:35	03/21/21 21:35	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1635374	1	03/16/21 13:31	03/16/21 13:31	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1636328	10	03/18/21 07:48	03/18/21 07:48	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1636176	5	03/19/21 03:24	03/21/21 03:37	JN	Mt. Juliet, TN

MW-12-03092021 L1326434-06 GW

				Collected by AW/AH	Collected date/time 03/09/21 12:21	Received date/time 03/12/21 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1637625	1	03/20/21 06:52	03/20/21 06:52	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1635374	1	03/16/21 13:50	03/16/21 13:50	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1636328	1	03/18/21 08:08	03/18/21 08:08	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1636176	1	03/19/21 03:24	03/21/21 01:03	JN	Mt. Juliet, TN



SAMPLE SUMMARY

MW-16-03092021 L1326434-07 GW

Collected by
AW/AH

Collected date/time
03/09/21 11:51

Received date/time
03/12/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1637625	1	03/20/21 07:14	03/20/21 07:14	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1635374	1	03/16/21 14:10	03/16/21 14:10	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1636176	1	03/19/21 03:24	03/21/21 01:28	JN	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

MW-20-03082021 L1326434-08 GW

Collected by
AW/AH

Collected date/time
03/08/21 15:37

Received date/time
03/12/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1636067	1	03/18/21 03:53	03/18/21 03:53	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1635374	1	03/16/21 14:30	03/16/21 14:30	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1636176	1	03/19/21 03:24	03/21/21 03:11	JN	Mt. Juliet, TN

MW-25-03092021 L1326434-09 GW

Collected by
AW/AH

Collected date/time
03/09/21 15:29

Received date/time
03/12/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1636067	1	03/18/21 04:17	03/18/21 04:17	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1635374	1	03/16/21 14:49	03/16/21 14:49	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1636176	1	03/19/21 03:24	03/21/21 02:20	JN	Mt. Juliet, TN

MW-27-03102021 L1326434-10 GW

Collected by
AW/AH

Collected date/time
03/10/21 09:08

Received date/time
03/12/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1636067	1	03/18/21 04:41	03/18/21 04:41	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1635374	1	03/16/21 15:09	03/16/21 15:09	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1636176	1	03/19/21 03:24	03/21/21 01:54	JN	Mt. Juliet, TN

MW-30-03092021 L1326434-11 GW

Collected by
AW/AH

Collected date/time
03/09/21 12:54

Received date/time
03/12/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1636067	10	03/18/21 05:05	03/18/21 05:05	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1635374	25	03/16/21 18:26	03/16/21 18:26	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1636178	1	03/19/21 03:29	03/20/21 13:41	WCR	Mt. Juliet, TN

MW-31-03102021 L1326434-12 GW

Collected by
AW/AH

Collected date/time
03/10/21 09:42

Received date/time
03/12/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1636067	1	03/18/21 05:41	03/18/21 05:41	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1635681	1	03/16/21 21:23	03/16/21 21:23	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1636324	10	03/18/21 04:50	03/18/21 04:50	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1636178	1	03/19/21 03:29	03/20/21 08:19	WCR	Mt. Juliet, TN

SAMPLE SUMMARY

MW-32-03092021 L1326434-13 GW

				Collected by AW/AH	Collected date/time 03/09/21 15:38	Received date/time 03/12/21 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1636067	1	03/18/21 06:05	03/18/21 06:05	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1635681	1	03/16/21 21:43	03/16/21 21:43	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1636324	1	03/18/21 05:10	03/18/21 05:10	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1636178	1	03/19/21 03:29	03/20/21 08:39	WCR	Mt. Juliet, TN

MW-33-03102021 L1326434-14 GW

				Collected by AW/AH	Collected date/time 03/10/21 09:38	Received date/time 03/12/21 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1636067	1	03/18/21 06:29	03/18/21 06:29	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1635681	1	03/16/21 22:02	03/16/21 22:02	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1636178	1	03/19/21 03:29	03/20/21 08:59	WCR	Mt. Juliet, TN

MW-39-03092021 L1326434-15 GW

				Collected by AW/AH	Collected date/time 03/09/21 13:10	Received date/time 03/12/21 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1636067	1	03/18/21 06:53	03/18/21 06:53	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1635681	1	03/16/21 22:22	03/16/21 22:22	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1636178	1	03/19/21 03:29	03/22/21 12:46	DMG	Mt. Juliet, TN

MW-40-03092021 L1326434-16 GW

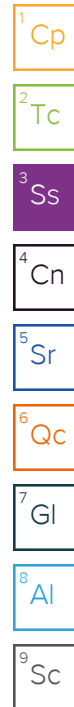
				Collected by AW/AH	Collected date/time 03/09/21 11:23	Received date/time 03/12/21 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1636067	1	03/18/21 07:17	03/18/21 07:17	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1635681	1	03/16/21 22:42	03/16/21 22:42	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1636324	10	03/18/21 05:30	03/18/21 05:30	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1636178	1	03/19/21 03:29	03/20/21 09:19	WCR	Mt. Juliet, TN

MW-31-03082021 L1326434-17 GW

				Collected by AW/AH	Collected date/time 03/08/21 15:51	Received date/time 03/12/21 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1636689	1	03/19/21 00:37	03/19/21 00:37	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1635431	1	03/17/21 16:58	03/17/21 16:58	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1636178	1	03/19/21 03:29	03/20/21 13:01	WCR	Mt. Juliet, TN

MW-32-03092021 L1326434-18 GW

				Collected by AW/AH	Collected date/time 03/09/21 14:27	Received date/time 03/12/21 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1636689	1	03/19/21 01:01	03/19/21 01:01	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1635681	1	03/16/21 23:02	03/16/21 23:02	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1636324	1	03/18/21 05:50	03/18/21 05:50	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1636178	1	03/19/21 03:29	03/20/21 09:39	WCR	Mt. Juliet, TN



SAMPLE SUMMARY

MW-33-03092021 L1326434-19 GW

				Collected by AW/AH	Collected date/time 03/09/21 14:37	Received date/time 03/12/21 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1636689	1	03/19/21 01:25	03/19/21 01:25	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1635681	1	03/16/21 23:21	03/16/21 23:21	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1636324	1	03/18/21 06:09	03/18/21 06:09	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1636178	1	03/19/21 03:29	03/20/21 09:59	WCR	Mt. Juliet, TN

MW-34-03082021 L1326434-20 GW

				Collected by AW/AH	Collected date/time 03/08/21 16:15	Received date/time 03/12/21 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1636689	1	03/19/21 01:49	03/19/21 01:49	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1635431	1	03/17/21 17:47	03/17/21 17:47	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1636178	1	03/19/21 03:29	03/22/21 13:37	DMG	Mt. Juliet, TN

DMW-2-03092021 L1326434-21 GW

				Collected by AW/AH	Collected date/time 03/09/21 16:07	Received date/time 03/12/21 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1636689	1	03/19/21 02:13	03/19/21 02:13	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1635681	1	03/16/21 23:41	03/16/21 23:41	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1636324	1	03/18/21 06:29	03/18/21 06:29	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1636178	1	03/19/21 03:29	03/20/21 10:20	WCR	Mt. Juliet, TN

DMW-4-03092021 L1326434-22 GW

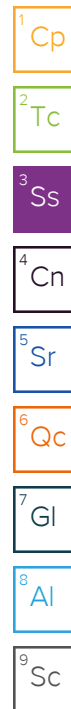
				Collected by AW/AH	Collected date/time 03/09/21 08:50	Received date/time 03/12/21 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1636689	1	03/19/21 02:37	03/19/21 02:37	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1635681	1	03/17/21 00:01	03/17/21 00:01	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1636178	1	03/19/21 03:29	03/20/21 10:40	WCR	Mt. Juliet, TN

BD-MH-34-03092021 L1326434-23 GW

				Collected by AW/AH	Collected date/time 03/09/21 12:00	Received date/time 03/12/21 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1636689	1	03/19/21 03:01	03/19/21 03:01	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1635681	1	03/17/21 00:20	03/17/21 00:20	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1636324	10	03/18/21 06:49	03/18/21 06:49	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1636178	1	03/19/21 03:29	03/20/21 11:00	WCR	Mt. Juliet, TN

TB-MH034-03082021 L1326434-24 GW

				Collected by AW/AH	Collected date/time 03/08/21 12:00	Received date/time 03/12/21 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1635431	1	03/17/21 12:13	03/17/21 12:13	JHH	Mt. Juliet, TN



SAMPLE SUMMARY

DMW-5-03102021 L1326434-25 GW

Collected by
AW/AH

Collected date/time
03/10/21 08:58

Received date/time
03/12/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1636689	5	03/19/21 05:48	03/19/21 05:48	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1635681	20	03/17/21 02:58	03/17/21 02:58	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1636178	1	03/19/21 03:29	03/20/21 13:21	WCR	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

CASE NARRATIVE

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



Jared Starkey
Project Manager



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	03/17/2021 18:22	WG1636056
(S) a,a,a-Trifluorotoluene(FID)	97.1			78.0-120		03/17/2021 18:22	WG1636056

1 Cp

2 Tc

3 Ss

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0941	1.00	1	03/16/2021 12:12	WG1635374
Toluene	U		0.278	1.00	1	03/16/2021 12:12	WG1635374
Ethylbenzene	U		0.137	1.00	1	03/16/2021 12:12	WG1635374
Total Xylenes	U		0.174	3.00	1	03/16/2021 12:12	WG1635374
(S) Toluene-d8	85.2			80.0-120		03/16/2021 12:12	WG1635374
(S) 4-Bromofluorobenzene	118			77.0-126		03/16/2021 12:12	WG1635374
(S) 1,2-Dichloroethane-d4	104			70.0-130		03/16/2021 12:12	WG1635374

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		66.7	200	1	03/20/2021 23:20	WG1636176
Residual Range Organics (RRO)	152	J	83.3	250	1	03/20/2021 23:20	WG1636176
(S) o-Terphenyl	115			52.0-156		03/20/2021 23:20	WG1636176

9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	837		31.6	100	1	03/17/2021 18:46	WG1636056
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	93.2			78.0-120		03/17/2021 18:46	WG1636056

1
Cp2
Tc3
Ss

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	8.69		0.0941	1.00	1	03/16/2021 12:32	WG1635374
Toluene	0.443	J	0.278	1.00	1	03/16/2021 12:32	WG1635374
Ethylbenzene	4.10		0.137	1.00	1	03/16/2021 12:32	WG1635374
Total Xylenes	12.9		0.174	3.00	1	03/16/2021 12:32	WG1635374
(S) Toluene-d8	84.3			80.0-120		03/16/2021 12:32	WG1635374
(S) 4-Bromofluorobenzene	93.5			77.0-126		03/16/2021 12:32	WG1635374
(S) 1,2-Dichloroethane-d4	93.9			70.0-130		03/16/2021 12:32	WG1635374

4
Cn5
Sr6
Qc7
Gl8
Al

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	354		66.7	200	1	03/20/2021 23:46	WG1636176
Residual Range Organics (RRO)	259		83.3	250	1	03/20/2021 23:46	WG1636176
(S) <i>o</i> -Terphenyl	114			52.0-156		03/20/2021 23:46	WG1636176

9
Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	38.0	B J	31.6	100	1	03/17/2021 19:10	WG1636056
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	97.0			78.0-120		03/17/2021 19:10	WG1636056

1 Cp

2 Tc

3 Ss

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0941	1.00	1	03/16/2021 12:51	WG1635374
Toluene	U		0.278	1.00	1	03/16/2021 12:51	WG1635374
Ethylbenzene	U		0.137	1.00	1	03/16/2021 12:51	WG1635374
Total Xylenes	U		0.174	3.00	1	03/16/2021 12:51	WG1635374
(S) Toluene-d8	88.4			80.0-120		03/16/2021 12:51	WG1635374
(S) 4-Bromofluorobenzene	97.8			77.0-126		03/16/2021 12:51	WG1635374
(S) 1,2-Dichloroethane-d4	99.7			70.0-130		03/16/2021 12:51	WG1635374

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		66.7	200	1	03/21/2021 00:11	WG1636176
Residual Range Organics (RRO)	U		83.3	250	1	03/21/2021 00:11	WG1636176
(S) <i>o</i> -Terphenyl	112			52.0-156		03/21/2021 00:11	WG1636176

9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	405	<u>B</u>	31.6	100	1	03/18/2021 02:17	WG1636067
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	97.0			78.0-120		03/18/2021 02:17	WG1636067

1 Cp

2 Tc

3 Ss

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	17.9		0.0941	1.00	1	03/16/2021 13:11	WG1635374
Toluene	U		0.278	1.00	1	03/16/2021 13:11	WG1635374
Ethylbenzene	2.04		0.137	1.00	1	03/16/2021 13:11	WG1635374
Total Xylenes	2.11	<u>J</u>	0.174	3.00	1	03/16/2021 13:11	WG1635374
(S) Toluene-d8	91.6			80.0-120		03/16/2021 13:11	WG1635374
(S) 4-Bromofluorobenzene	99.1			77.0-126		03/16/2021 13:11	WG1635374
(S) 1,2-Dichloroethane-d4	86.1			70.0-130		03/16/2021 13:11	WG1635374

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	587		66.7	200	1	03/21/2021 00:37	WG1636176
Residual Range Organics (RRO)	U		83.3	250	1	03/21/2021 00:37	WG1636176
(S) <i>o</i> -Terphenyl	117			52.0-156		03/21/2021 00:37	WG1636176

9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	11600		632	2000	20	03/21/2021 21:35	WG1638083
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	99.7			78.0-120		03/21/2021 21:35	WG1638083

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	147		0.0941	1.00	1	03/16/2021 13:31	WG1635374
Toluene	6.84		0.278	1.00	1	03/16/2021 13:31	WG1635374
Ethylbenzene	206		1.37	10.0	10	03/18/2021 07:48	WG1636328
Total Xylenes	924		1.74	30.0	10	03/18/2021 07:48	WG1636328
(S) Toluene-d8	87.1			80.0-120		03/16/2021 13:31	WG1635374
(S) Toluene-d8	90.7			80.0-120		03/18/2021 07:48	WG1636328
(S) 4-Bromofluorobenzene	90.4			77.0-126		03/16/2021 13:31	WG1635374
(S) 4-Bromofluorobenzene	98.1			77.0-126		03/18/2021 07:48	WG1636328
(S) 1,2-Dichloroethane-d4	98.1			70.0-130		03/16/2021 13:31	WG1635374
(S) 1,2-Dichloroethane-d4	96.2			70.0-130		03/18/2021 07:48	WG1636328

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	7490		333	1000	5	03/21/2021 03:37	WG1636176
Residual Range Organics (RRO)	5910		417	1250	5	03/21/2021 03:37	WG1636176
(S) <i>o</i> -Terphenyl	140			52.0-156		03/21/2021 03:37	WG1636176

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	64.7	<u>J</u>	31.6	100	1	03/20/2021 06:52	WG1637625
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	125	<u>J1</u>		78.0-120		03/20/2021 06:52	WG1637625

Sample Narrative:

L1326434-06 WG1637625: Surrogate failure confirmed.

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0941	1.00	1	03/16/2021 13:50	WG1635374
Toluene	U		0.278	1.00	1	03/16/2021 13:50	WG1635374
Ethylbenzene	U		0.137	1.00	1	03/18/2021 08:08	WG1636328
Total Xylenes	0.359	<u>J</u>	0.174	3.00	1	03/18/2021 08:08	WG1636328
(S) Toluene-d8	89.2			80.0-120		03/16/2021 13:50	WG1635374
(S) Toluene-d8	95.8			80.0-120		03/18/2021 08:08	WG1636328
(S) 4-Bromofluorobenzene	97.5			77.0-126		03/16/2021 13:50	WG1635374
(S) 4-Bromofluorobenzene	105			77.0-126		03/18/2021 08:08	WG1636328
(S) 1,2-Dichloroethane-d4	89.8			70.0-130		03/16/2021 13:50	WG1635374
(S) 1,2-Dichloroethane-d4	95.8			70.0-130		03/18/2021 08:08	WG1636328

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		66.7	200	1	03/21/2021 01:03	WG1636176
Residual Range Organics (RRO)	U		83.3	250	1	03/21/2021 01:03	WG1636176
(S) <i>o</i> -Terphenyl	120			52.0-156		03/21/2021 01:03	WG1636176

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	03/20/2021 07:14	WG1637625
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	94.2			78.0-120		03/20/2021 07:14	WG1637625

1 Cp

2 Tc

3 Ss

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0941	1.00	1	03/16/2021 14:10	WG1635374
Toluene	U		0.278	1.00	1	03/16/2021 14:10	WG1635374
Ethylbenzene	U		0.137	1.00	1	03/16/2021 14:10	WG1635374
Total Xylenes	0.510	J	0.174	3.00	1	03/16/2021 14:10	WG1635374
(S) Toluene-d8	89.5			80.0-120		03/16/2021 14:10	WG1635374
(S) 4-Bromofluorobenzene	102			77.0-126		03/16/2021 14:10	WG1635374
(S) 1,2-Dichloroethane-d4	93.9			70.0-130		03/16/2021 14:10	WG1635374

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		66.7	200	1	03/21/2021 01:28	WG1636176
Residual Range Organics (RRO)	102	J	83.3	250	1	03/21/2021 01:28	WG1636176
(S) <i>o</i> -Terphenyl	111			52.0-156		03/21/2021 01:28	WG1636176

9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	90.4	<u>B</u> <u>J</u>	31.6	100	1	03/18/2021 03:53	WG1636067
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	97.2			78.0-120		03/18/2021 03:53	WG1636067

1 Cp

2 Tc

3 Ss

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0941	1.00	1	03/16/2021 14:30	WG1635374
Toluene	U		0.278	1.00	1	03/16/2021 14:30	WG1635374
Ethylbenzene	U		0.137	1.00	1	03/16/2021 14:30	WG1635374
Total Xylenes	0.246	<u>J</u>	0.174	3.00	1	03/16/2021 14:30	WG1635374
(S) Toluene-d8	91.7			80.0-120		03/16/2021 14:30	WG1635374
(S) 4-Bromofluorobenzene	99.1			77.0-126		03/16/2021 14:30	WG1635374
(S) 1,2-Dichloroethane-d4	95.1			70.0-130		03/16/2021 14:30	WG1635374

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	141	<u>J</u>	66.7	200	1	03/21/2021 03:11	WG1636176
Residual Range Organics (RRO)	903		83.3	250	1	03/21/2021 03:11	WG1636176
(S) <i>o</i> -Terphenyl	110			52.0-156		03/21/2021 03:11	WG1636176

9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	48.1	B J	31.6	100	1	03/18/2021 04:17	WG1636067
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	97.4			78.0-120		03/18/2021 04:17	WG1636067

1 Cp

2 Tc

3 Ss

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0941	1.00	1	03/16/2021 14:49	WG1635374
Toluene	U		0.278	1.00	1	03/16/2021 14:49	WG1635374
Ethylbenzene	U		0.137	1.00	1	03/16/2021 14:49	WG1635374
Total Xylenes	U		0.174	3.00	1	03/16/2021 14:49	WG1635374
(S) Toluene-d8	92.3			80.0-120		03/16/2021 14:49	WG1635374
(S) 4-Bromofluorobenzene	105			77.0-126		03/16/2021 14:49	WG1635374
(S) 1,2-Dichloroethane-d4	91.4			70.0-130		03/16/2021 14:49	WG1635374

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		66.7	200	1	03/21/2021 02:20	WG1636176
Residual Range Organics (RRO)	124	J	83.3	250	1	03/21/2021 02:20	WG1636176
(S) <i>o</i> -Terphenyl	109			52.0-156		03/21/2021 02:20	WG1636176

9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	44.2	B J	31.6	100	1	03/18/2021 04:41	WG1636067
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	97.1			78.0-120		03/18/2021 04:41	WG1636067

1 Cp

2 Tc

3 Ss

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0941	1.00	1	03/16/2021 15:09	WG1635374
Toluene	U		0.278	1.00	1	03/16/2021 15:09	WG1635374
Ethylbenzene	U		0.137	1.00	1	03/16/2021 15:09	WG1635374
Total Xylenes	U		0.174	3.00	1	03/16/2021 15:09	WG1635374
(S) Toluene-d8	89.5			80.0-120		03/16/2021 15:09	WG1635374
(S) 4-Bromofluorobenzene	99.5			77.0-126		03/16/2021 15:09	WG1635374
(S) 1,2-Dichloroethane-d4	95.6			70.0-130		03/16/2021 15:09	WG1635374

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		66.7	200	1	03/21/2021 01:54	WG1636176
Residual Range Organics (RRO)	U		83.3	250	1	03/21/2021 01:54	WG1636176
(S) <i>o</i> -Terphenyl	103			52.0-156		03/21/2021 01:54	WG1636176

9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	12600		316	1000	10	03/18/2021 05:05	WG1636067
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	90.9			78.0-120		03/18/2021 05:05	WG1636067

1 Cp

2 Tc

3 Ss

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	597		2.35	25.0	25	03/16/2021 18:26	WG1635374
Toluene	43.1		6.95	25.0	25	03/16/2021 18:26	WG1635374
Ethylbenzene	603		3.43	25.0	25	03/16/2021 18:26	WG1635374
Total Xylenes	859		4.35	75.0	25	03/16/2021 18:26	WG1635374
(S) Toluene-d8	91.3			80.0-120		03/16/2021 18:26	WG1635374
(S) 4-Bromofluorobenzene	98.5			77.0-126		03/16/2021 18:26	WG1635374
(S) 1,2-Dichloroethane-d4	97.1			70.0-130		03/16/2021 18:26	WG1635374

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	5230		66.7	200	1	03/20/2021 13:41	WG1636178
Residual Range Organics (RRO)	1820		83.3	250	1	03/20/2021 13:41	WG1636178
(S) <i>o</i> -Terphenyl	111			52.0-156		03/20/2021 13:41	WG1636178

9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	2550		31.6	100	1	03/18/2021 05:41	WG1636067
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	95.6			78.0-120		03/18/2021 05:41	WG1636067

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	390		0.941	10.0	10	03/18/2021 04:50	WG1636324
Toluene	7.92		0.278	1.00	1	03/16/2021 21:23	WG1635681
Ethylbenzene	55.5		0.137	1.00	1	03/16/2021 21:23	WG1635681
Total Xylenes	163		0.174	3.00	1	03/16/2021 21:23	WG1635681
(S) Toluene-d8	86.7			80.0-120		03/16/2021 21:23	WG1635681
(S) Toluene-d8	89.1			80.0-120		03/18/2021 04:50	WG1636324
(S) 4-Bromofluorobenzene	96.1			77.0-126		03/16/2021 21:23	WG1635681
(S) 4-Bromofluorobenzene	94.7			77.0-126		03/18/2021 04:50	WG1636324
(S) 1,2-Dichloroethane-d4	89.9			70.0-130		03/16/2021 21:23	WG1635681
(S) 1,2-Dichloroethane-d4	98.3			70.0-130		03/18/2021 04:50	WG1636324

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	1090		66.7	200	1	03/20/2021 08:19	WG1636178
Residual Range Organics (RRO)	528		83.3	250	1	03/20/2021 08:19	WG1636178
(S) <i>o</i> -Terphenyl	98.5			52.0-156		03/20/2021 08:19	WG1636178

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	54.9	B J	31.6	100	1	03/18/2021 06:05	WG1636067
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	97.1			78.0-120		03/18/2021 06:05	WG1636067

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	0.247	B J	0.0941	1.00	1	03/18/2021 05:10	WG1636324
Toluene	U		0.278	1.00	1	03/16/2021 21:43	WG1635681
Ethylbenzene	U		0.137	1.00	1	03/18/2021 05:10	WG1636324
Total Xylenes	0.278	J	0.174	3.00	1	03/18/2021 05:10	WG1636324
(S) Toluene-d8	92.1			80.0-120		03/16/2021 21:43	WG1635681
(S) Toluene-d8	88.4			80.0-120		03/18/2021 05:10	WG1636324
(S) 4-Bromofluorobenzene	98.8			77.0-126		03/16/2021 21:43	WG1635681
(S) 4-Bromofluorobenzene	95.3			77.0-126		03/18/2021 05:10	WG1636324
(S) 1,2-Dichloroethane-d4	92.9			70.0-130		03/16/2021 21:43	WG1635681
(S) 1,2-Dichloroethane-d4	98.8			70.0-130		03/18/2021 05:10	WG1636324

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		66.7	200	1	03/20/2021 08:39	WG1636178
Residual Range Organics (RRO)	U		83.3	250	1	03/20/2021 08:39	WG1636178
(S) <i>o</i> -Terphenyl	89.0			52.0-156		03/20/2021 08:39	WG1636178

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	1190		31.6	100	1	03/18/2021 06:29	WG1636067
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	95.8			78.0-120		03/18/2021 06:29	WG1636067

1 Cp

2 Tc

3 Ss

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	10.3		0.0941	1.00	1	03/16/2021 22:02	WG1635681
Toluene	0.378	J	0.278	1.00	1	03/16/2021 22:02	WG1635681
Ethylbenzene	19.1		0.137	1.00	1	03/16/2021 22:02	WG1635681
Total Xylenes	30.6		0.174	3.00	1	03/16/2021 22:02	WG1635681
(S) Toluene-d8	82.8			80.0-120		03/16/2021 22:02	WG1635681
(S) 4-Bromofluorobenzene	96.4			77.0-126		03/16/2021 22:02	WG1635681
(S) 1,2-Dichloroethane-d4	98.6			70.0-130		03/16/2021 22:02	WG1635681

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	2190		66.7	200	1	03/20/2021 08:59	WG1636178
Residual Range Organics (RRO)	669		83.3	250	1	03/20/2021 08:59	WG1636178
(S) <i>o</i> -Terphenyl	99.5			52.0-156		03/20/2021 08:59	WG1636178

9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	412	<u>B</u>	31.6	100	1	03/18/2021 06:53	WG1636067
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	94.0			78.0-120		03/18/2021 06:53	WG1636067

1 Cp

2 Tc

3 Ss

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	94.2		0.0941	1.00	1	03/16/2021 22:22	WG1635681
Toluene	0.553	<u>J</u>	0.278	1.00	1	03/16/2021 22:22	WG1635681
Ethylbenzene	10.6		0.137	1.00	1	03/16/2021 22:22	WG1635681
Total Xylenes	1.28	<u>J</u>	0.174	3.00	1	03/16/2021 22:22	WG1635681
(S) Toluene-d8	87.9			80.0-120		03/16/2021 22:22	WG1635681
(S) 4-Bromofluorobenzene	96.9			77.0-126		03/16/2021 22:22	WG1635681
(S) 1,2-Dichloroethane-d4	92.6			70.0-130		03/16/2021 22:22	WG1635681

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	248		66.7	200	1	03/22/2021 12:46	WG1636178
Residual Range Organics (RRO)	177	<u>J</u>	83.3	250	1	03/22/2021 12:46	WG1636178
(S) <i>o</i> -Terphenyl	106			52.0-156		03/22/2021 12:46	WG1636178

9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	3280		31.6	100	1	03/18/2021 07:17	WG1636067
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	100			78.0-120		03/18/2021 07:17	WG1636067

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	311		0.941	10.0	10	03/18/2021 05:30	WG1636324
Toluene	2.78		0.278	1.00	1	03/16/2021 22:42	WG1635681
Ethylbenzene	40.3		0.137	1.00	1	03/16/2021 22:42	WG1635681
Total Xylenes	43.0		0.174	3.00	1	03/16/2021 22:42	WG1635681
(S) Toluene-d8	86.2			80.0-120		03/16/2021 22:42	WG1635681
(S) Toluene-d8	91.0			80.0-120		03/18/2021 05:30	WG1636324
(S) 4-Bromofluorobenzene	98.4			77.0-126		03/16/2021 22:42	WG1635681
(S) 4-Bromofluorobenzene	93.9			77.0-126		03/18/2021 05:30	WG1636324
(S) 1,2-Dichloroethane-d4	95.1			70.0-130		03/16/2021 22:42	WG1635681
(S) 1,2-Dichloroethane-d4	103			70.0-130		03/18/2021 05:30	WG1636324

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	988		66.7	200	1	03/20/2021 09:19	WG1636178
Residual Range Organics (RRO)	297		83.3	250	1	03/20/2021 09:19	WG1636178
(S) <i>o</i> -Terphenyl	97.0			52.0-156		03/20/2021 09:19	WG1636178

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	03/19/2021 00:37	WG1636689
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	96.9			78.0-120		03/19/2021 00:37	WG1636689

1 Cp

2 Tc

3 Ss

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	0.356	J	0.0941	1.00	1	03/17/2021 16:58	WG1635431
Toluene	U		0.278	1.00	1	03/17/2021 16:58	WG1635431
Ethylbenzene	0.147	J	0.137	1.00	1	03/17/2021 16:58	WG1635431
Total Xylenes	0.194	J	0.174	3.00	1	03/17/2021 16:58	WG1635431
(S) Toluene-d8	103			80.0-120		03/17/2021 16:58	WG1635431
(S) 4-Bromofluorobenzene	105			77.0-126		03/17/2021 16:58	WG1635431
(S) 1,2-Dichloroethane-d4	106			70.0-130		03/17/2021 16:58	WG1635431

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		66.7	200	1	03/20/2021 13:01	WG1636178
Residual Range Organics (RRO)	U		83.3	250	1	03/20/2021 13:01	WG1636178
(S) <i>o</i> -Terphenyl	96.0			52.0-156		03/20/2021 13:01	WG1636178

9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	47.8	<u>B</u> <u>J</u>	31.6	100	1	03/19/2021 01:01	WG1636689
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	96.7			78.0-120		03/19/2021 01:01	WG1636689

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	0.905	<u>B</u> <u>J</u>	0.0941	1.00	1	03/18/2021 05:50	WG1636324
Toluene	U		0.278	1.00	1	03/16/2021 23:02	WG1635681
Ethylbenzene	0.284	<u>J</u>	0.137	1.00	1	03/18/2021 05:50	WG1636324
Total Xylenes	0.283	<u>J</u>	0.174	3.00	1	03/18/2021 05:50	WG1636324
(S) Toluene-d8	90.6			80.0-120		03/16/2021 23:02	WG1635681
(S) Toluene-d8	92.4			80.0-120		03/18/2021 05:50	WG1636324
(S) 4-Bromofluorobenzene	99.2			77.0-126		03/16/2021 23:02	WG1635681
(S) 4-Bromofluorobenzene	103			77.0-126		03/18/2021 05:50	WG1636324
(S) 1,2-Dichloroethane-d4	95.3			70.0-130		03/16/2021 23:02	WG1635681
(S) 1,2-Dichloroethane-d4	96.3			70.0-130		03/18/2021 05:50	WG1636324

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	140	<u>J</u>	66.7	200	1	03/20/2021 09:39	WG1636178
Residual Range Organics (RRO)	181	<u>J</u>	83.3	250	1	03/20/2021 09:39	WG1636178
(S) <i>o</i> -Terphenyl	93.0			52.0-156		03/20/2021 09:39	WG1636178

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	60.9	B J	31.6	100	1	03/19/2021 01:25	WG1636689
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	96.9			78.0-120		03/19/2021 01:25	WG1636689

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	0.810	B J	0.0941	1.00	1	03/18/2021 06:09	WG1636324
Toluene	U		0.278	1.00	1	03/16/2021 23:21	WG1635681
Ethylbenzene	0.231	J	0.137	1.00	1	03/18/2021 06:09	WG1636324
Total Xylenes	0.449	J	0.174	3.00	1	03/18/2021 06:09	WG1636324
(S) Toluene-d8	91.3			80.0-120		03/16/2021 23:21	WG1635681
(S) Toluene-d8	92.3			80.0-120		03/18/2021 06:09	WG1636324
(S) 4-Bromofluorobenzene	98.7			77.0-126		03/16/2021 23:21	WG1635681
(S) 4-Bromofluorobenzene	101			77.0-126		03/18/2021 06:09	WG1636324
(S) 1,2-Dichloroethane-d4	92.4			70.0-130		03/16/2021 23:21	WG1635681
(S) 1,2-Dichloroethane-d4	93.2			70.0-130		03/18/2021 06:09	WG1636324

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		66.7	200	1	03/20/2021 09:59	WG1636178
Residual Range Organics (RRO)	111	J	83.3	250	1	03/20/2021 09:59	WG1636178
(S) <i>o</i> -Terphenyl	91.0			52.0-156		03/20/2021 09:59	WG1636178

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	157	<u>B</u>	31.6	100	1	03/19/2021 01:49	WG1636689
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	96.9			78.0-120		03/19/2021 01:49	WG1636689

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	5.54		0.0941	1.00	1	03/17/2021 17:47	WG1635431
Toluene	U		0.278	1.00	1	03/17/2021 17:47	WG1635431
Ethylbenzene	8.36		0.137	1.00	1	03/17/2021 17:47	WG1635431
Total Xylenes	9.29		0.174	3.00	1	03/17/2021 17:47	WG1635431
(S) Toluene-d8	101			80.0-120		03/17/2021 17:47	WG1635431
(S) 4-Bromofluorobenzene	104			77.0-126		03/17/2021 17:47	WG1635431
(S) 1,2-Dichloroethane-d4	110			70.0-130		03/17/2021 17:47	WG1635431

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	525		66.7	200	1	03/22/2021 13:37	WG1636178
Residual Range Organics (RRO)	716		83.3	250	1	03/22/2021 13:37	WG1636178
(S) <i>o</i> -Terphenyl	100			52.0-156		03/22/2021 13:37	WG1636178

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	87.7	B_J	31.6	100	1	03/19/2021 02:13	WG1636689
(S) a,a,a-Trifluorotoluene(FID)	96.7			78.0-120		03/19/2021 02:13	WG1636689

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	0.317	B_J	0.0941	1.00	1	03/18/2021 06:29	WG1636324
Toluene	U		0.278	1.00	1	03/16/2021 23:41	WG1635681
Ethylbenzene	2.46		0.137	1.00	1	03/18/2021 06:29	WG1636324
Total Xylenes	U		0.174	3.00	1	03/16/2021 23:41	WG1635681
(S) Toluene-d8	87.3			80.0-120		03/16/2021 23:41	WG1635681
(S) Toluene-d8	93.7			80.0-120		03/18/2021 06:29	WG1636324
(S) 4-Bromofluorobenzene	95.6			77.0-126		03/16/2021 23:41	WG1635681
(S) 4-Bromofluorobenzene	103			77.0-126		03/18/2021 06:29	WG1636324
(S) 1,2-Dichloroethane-d4	98.0			70.0-130		03/16/2021 23:41	WG1635681
(S) 1,2-Dichloroethane-d4	92.5			70.0-130		03/18/2021 06:29	WG1636324

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		66.7	200	1	03/20/2021 10:20	WG1636178
Residual Range Organics (RRO)	U		83.3	250	1	03/20/2021 10:20	WG1636178
(S) o-Terphenyl	92.0			52.0-156		03/20/2021 10:20	WG1636178

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	1640		31.6	100	1	03/19/2021 02:37	WG1636689
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	91.4			78.0-120		03/19/2021 02:37	WG1636689

1 Cp

2 Tc

3 Ss

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	35.8		0.0941	1.00	1	03/17/2021 00:01	WG1635681
Toluene	3.52		0.278	1.00	1	03/17/2021 00:01	WG1635681
Ethylbenzene	62.4		0.137	1.00	1	03/17/2021 00:01	WG1635681
Total Xylenes	187		0.174	3.00	1	03/17/2021 00:01	WG1635681
(S) Toluene-d8	92.8			80.0-120		03/17/2021 00:01	WG1635681
(S) 4-Bromofluorobenzene	96.4			77.0-126		03/17/2021 00:01	WG1635681
(S) 1,2-Dichloroethane-d4	90.6			70.0-130		03/17/2021 00:01	WG1635681

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	568		66.7	200	1	03/20/2021 10:40	WG1636178
Residual Range Organics (RRO)	119	J	83.3	250	1	03/20/2021 10:40	WG1636178
(S) o-Terphenyl	94.0			52.0-156		03/20/2021 10:40	WG1636178

9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	3210		31.6	100	1	03/19/2021 03:01	WG1636689
(S) a,a,a-Trifluorotoluene(FID)	98.5			78.0-120		03/19/2021 03:01	WG1636689

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	300		0.941	10.0	10	03/18/2021 06:49	WG1636324
Toluene	3.00		0.278	1.00	1	03/17/2021 00:20	WG1635681
Ethylbenzene	42.6		0.137	1.00	1	03/17/2021 00:20	WG1635681
Total Xylenes	44.8		0.174	3.00	1	03/17/2021 00:20	WG1635681
(S) Toluene-d8	91.4			80.0-120		03/17/2021 00:20	WG1635681
(S) Toluene-d8	88.6			80.0-120		03/18/2021 06:49	WG1636324
(S) 4-Bromofluorobenzene	97.6			77.0-126		03/17/2021 00:20	WG1635681
(S) 4-Bromofluorobenzene	105			77.0-126		03/18/2021 06:49	WG1636324
(S) 1,2-Dichloroethane-d4	98.3			70.0-130		03/17/2021 00:20	WG1635681
(S) 1,2-Dichloroethane-d4	96.1			70.0-130		03/18/2021 06:49	WG1636324

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	973		66.7	200	1	03/20/2021 11:00	WG1636178
Residual Range Organics (RRO)	285		83.3	250	1	03/20/2021 11:00	WG1636178
(S) o-Terphenyl	106			52.0-156		03/20/2021 11:00	WG1636178

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	03/17/2021 12:13	WG1635431
Toluene	U		0.278	1.00	1	03/17/2021 12:13	WG1635431
Ethylbenzene	U		0.137	1.00	1	03/17/2021 12:13	WG1635431
Total Xylenes	U		0.174	3.00	1	03/17/2021 12:13	WG1635431
(S) Toluene-d8	103			80.0-120		03/17/2021 12:13	WG1635431
(S) 4-Bromofluorobenzene	105			77.0-126		03/17/2021 12:13	WG1635431
(S) 1,2-Dichloroethane-d4	108			70.0-130		03/17/2021 12:13	WG1635431

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	27400		158	500	5	03/19/2021 05:48	WG1636689
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	97.5			78.0-120		03/19/2021 05:48	WG1636689

1 Cp

2 Tc

3 Ss

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	229		1.88	20.0	20	03/17/2021 02:58	WG1635681
Toluene	38.2		5.56	20.0	20	03/17/2021 02:58	WG1635681
Ethylbenzene	1970		2.74	20.0	20	03/17/2021 02:58	WG1635681
Total Xylenes	3590		3.48	60.0	20	03/17/2021 02:58	WG1635681
(S) Toluene-d8	92.1			80.0-120		03/17/2021 02:58	WG1635681
(S) 4-Bromofluorobenzene	97.9			77.0-126		03/17/2021 02:58	WG1635681
(S) 1,2-Dichloroethane-d4	99.2			70.0-130		03/17/2021 02:58	WG1635681

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	4580		66.7	200	1	03/20/2021 13:21	WG1636178
Residual Range Organics (RRO)	892		83.3	250	1	03/20/2021 13:21	WG1636178
(S) <i>o</i> -Terphenyl	116			52.0-156		03/20/2021 13:21	WG1636178

9 Sc

Method Blank (MB)

(MB) R3631867-2 03/17/21 10:58

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	39.8	J	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	97.5			78.0-120

Laboratory Control Sample (LCS)

(LCS) R3631867-1 03/17/21 10:10

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5170	94.0	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			102	78.0-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3632809-1 03/17/21 22:16

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	42.4	J	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	98.4			78.0-120

Laboratory Control Sample (LCS)

(LCS) R3632809-2 03/17/21 22:40

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5570	101	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			102	78.0-120	

L1326221-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1326221-18 03/17/21 23:28 • (MS) R3632809-3 03/18/21 07:41 • (MSD) R3632809-4 03/18/21 08:05

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5500	679	3590	3630	52.9	53.7	1	10.0-155			1.11	21
(S) a,a,a-Trifluorotoluene(FID)					99.5	99.0		78.0-120				

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R3632890-2 03/18/21 23:11

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	37.5	J	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	97.5			78.0-120

Laboratory Control Sample (LCS)

(LCS) R3632890-1 03/18/21 22:23

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5890	107	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			103	78.0-120	

L1326434-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1326434-17 03/19/21 00:37 • (MS) R3632890-3 03/19/21 08:11 • (MSD) R3632890-4 03/19/21 08:35

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5500	U	5290	5200	96.2	94.5	1	10.0-155			1.72	21
(S) a,a,a-Trifluorotoluene(FID)					103	104		78.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3633000-3 03/20/21 00:57

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	U		31.6	100
(S) a,a,a-Trifluorotoluene(FID)	101			78.0-120

Laboratory Control Sample (LCS)

(LCS) R3633000-2 03/20/21 00:13

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5180	94.2	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			111	78.0-120	

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R3633298-2 03/21/21 20:24

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	51.7	J	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	99.8			78.0-120

Laboratory Control Sample (LCS)

(LCS) R3633298-1 03/21/21 20:03

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	4630	84.2	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			108	78.0-120	

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R3631877-2 03/16/21 10:07

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.0941	1.00
Ethylbenzene	U		0.137	1.00
Toluene	U		0.278	1.00
Xylenes, Total	U		0.174	3.00
(S) Toluene-d8	94.3			80.0-120
(S) 4-Bromofluorobenzene	104			77.0-126
(S) 1,2-Dichloroethane-d4	95.6			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3631877-1 03/16/21 09:08

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	5.00	5.69	114	70.0-123	
Ethylbenzene	5.00	4.64	92.8	79.0-123	
Toluene	5.00	4.68	93.6	79.0-120	
Xylenes, Total	15.0	14.3	95.3	79.0-123	
(S) Toluene-d8			88.8	80.0-120	
(S) 4-Bromofluorobenzene			100	77.0-126	
(S) 1,2-Dichloroethane-d4			96.2	70.0-130	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3632217-3 03/17/21 11:12

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.0941	1.00
Ethylbenzene	U		0.137	1.00
Toluene	U		0.278	1.00
Xylenes, Total	U		0.174	3.00
(S) Toluene-d8	104			80.0-120
(S) 4-Bromofluorobenzene	104			77.0-126
(S) 1,2-Dichloroethane-d4	107			70.0-130

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

(LCS) R3632217-1 03/17/21 09:56 • (LCSD) R3632217-2 03/17/21 10:15

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	5.00	4.80	4.65	96.0	93.0	70.0-123			3.17	20
Ethylbenzene	5.00	4.93	4.86	98.6	97.2	79.0-123			1.43	20
Toluene	5.00	4.92	4.77	98.4	95.4	79.0-120			3.10	20
Xylenes, Total	15.0	15.1	13.2	101	88.0	79.0-123			13.4	20
(S) Toluene-d8				103	101	80.0-120				
(S) 4-Bromofluorobenzene				104	103	77.0-126				
(S) 1,2-Dichloroethane-d4				107	106	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3631878-2 03/16/21 20:04

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.0941	1.00
Ethylbenzene	U		0.137	1.00
Toluene	U		0.278	1.00
Xylenes, Total	U		0.174	3.00
(S) Toluene-d8	95.4			80.0-120
(S) 4-Bromofluorobenzene	104			77.0-126
(S) 1,2-Dichloroethane-d4	90.6			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3631878-1 03/16/21 19:25

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	5.00	5.54	111	70.0-123	
Ethylbenzene	5.00	4.78	95.6	79.0-123	
Toluene	5.00	4.82	96.4	79.0-120	
Xylenes, Total	15.0	13.6	90.7	79.0-123	
(S) Toluene-d8			87.4	80.0-120	
(S) 4-Bromofluorobenzene			96.8	77.0-126	
(S) 1,2-Dichloroethane-d4			98.3	70.0-130	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3632061-2 03/18/21 03:31

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	0.345	⌵	0.0941	1.00
Ethylbenzene	U		0.137	1.00
Xylenes, Total	U		0.174	3.00
(S) Toluene-d8	97.1			80.0-120
(S) 4-Bromofluorobenzene	100			77.0-126
(S) 1,2-Dichloroethane-d4	92.8			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3632061-1 03/18/21 02:52

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	5.00	5.59	112	70.0-123	
Ethylbenzene	5.00	4.11	82.2	79.0-123	
Xylenes, Total	15.0	13.7	91.3	79.0-123	
(S) Toluene-d8			90.4	80.0-120	
(S) 4-Bromofluorobenzene			99.4	77.0-126	
(S) 1,2-Dichloroethane-d4			97.6	70.0-130	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3632062-2 03/18/21 03:31

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.137	1.00
Xylenes, Total	U		0.174	3.00
(S) Toluene-d8	97.1			80.0-120
(S) 4-Bromofluorobenzene	100			77.0-126
(S) 1,2-Dichloroethane-d4	92.8			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3632062-1 03/18/21 02:52

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ethylbenzene	5.00	4.11	82.2	79.0-123	
Xylenes, Total	15.0	13.7	91.3	79.0-123	
(S) Toluene-d8			90.4	80.0-120	
(S) 4-Bromofluorobenzene			99.4	77.0-126	
(S) 1,2-Dichloroethane-d4			97.6	70.0-130	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3633065-1 03/20/21 21:12

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Diesel Range Organics (DRO)	U		66.7	200
Residual Range Organics (RRO)	U		83.3	250
(S) o-Terphenyl	110			52.0-156

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

(LCS) R3633065-2 03/20/21 21:37 • (LCSD) R3633065-3 03/20/21 22:03

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	1500	1830	1650	122	110	50.0-150			10.3	20
(S) o-Terphenyl				124	114	52.0-156				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

WG1636178

QUALITY CONTROL SUMMARY

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT [L1326434-11,12,13,14,15,16,17,18,19,20,21,22,23,25](#)

Method Blank (MB)

(MB) R3632952-1 03/19/21 13:15

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Diesel Range Organics (DRO)	U		66.7	200
Residual Range Organics (RRO)	U		83.3	250
(S) o-Terphenyl	109			52.0-156

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

(LCS) R3632952-2 03/19/21 13:35 • (LCSD) R3632952-3 03/19/21 13:55

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	1500	1580	1500	105	100	50.0-150			5.19	20
(S) o-Terphenyl				126	121	52.0-156				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier Description

B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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



BP Site Node Path:

BP>USA>WA>WA-MH-34 (Manhole 34 Project Site)

Reg Due Date (mm/dd/yy):

Rush TAT Yes

No XXX

Lab Work Order Number:

Page 1 of 14

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Sample Receipt Checklist

COC Seal Present/Intact: Y N If Applicable
 COC Signed/Accurate: Y N VOA Zero Headspace: Y N
 Bottles arrive intact: Y N Pres. Correct/Check: Y N
 Correct bottles used: Y N
 Sufficient volume sent: Y N
 RAD Screen <0.5 mR/hr: Y N

Proprietary and Confidential
Property of BP and its Affiliates

BP LaMP Soil/H2O COC July 2018

BP LAMP Soil/H2O Coc July 2018
C. Sti. 320.8
9348 1602 2204

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

BP Site Node Path:

BP>USA>WA>WA-MH-34 (Manhole 34 Project Site)

Req Due Date (mm/dd/yy):

Rush TAT Yes

No XXX

Lab Work Order Number:

2 4
Page 1 of 12

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BP LaMP Soil/H2O COC July 2018

BP LaMP Soil/H₂O COC July
a. St1320.8 *St*



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

Page 3 of 4
Rush TAT Yes No XXX

BP Site Node Path: BP>USA>WA>WA-MH-34 (Manhole 34 Project Site)

Req Due Date (mm/dd/yy):

Lab Work Order Number:

Lab Name: Pace Analytical National		BP/ARC Facility Address: 6th St. & Yakima Valley Hwy		Consultant/Contractor: Parsons										
Lab Address: 12065 Lebanon Rd, Mount Juliet, TN 37122		City, State, ZIP Code: Sunnyside, WA		Consultant/Contractor Project No:										
Lab PM: Jared Starkey		Lead Regulatory Agency:		Address:										
Lab Phone: 615-773-9698		California Global ID No.:		Consultant/Contractor PM: Cynthia Oppenheimer										
Lab Shipping Acct:		Enfos Proposal No: D01BZ-0001		Phone: 925-324-4895										
Lab Bottle Order No:		Accounting Mode: Provision (10)		Send/Submit EDD to: cynthia.oppenheimer@parsons.com										
Other Info:		Stage 70 Activity 116		Invoice To: PARSONS - BP-RM Enfos BP-Other										
BP/RM PM: John Frankenthal		Sample Details		Requested Analyses										
PM Phone: 331-236-1391				Limited (Standard) Package XX										
PM Email: john.frankenthal@bp.com				Limited Plus Package										
				Full Package										
Lab No.	Sample Description	Date	Time	Field Matrix	Start Depth	End Depth	Depth Unit	Grab (G) or Composite (C)	Total Number of Containers	Analysis	Pres	Filt	Report Type & QC Level	
														4326434
	MW-39-03092021	3/9/21	1310	W				G	6	X X X				
	MW-40-03092021	3/9/21	1123	W				G	6	X X X				
	MH-31-03092021	3/8/21	1351	W				G	6	X X X				
	MH-32-03092021	3/9/21	1427	W				G	6	X X X				
	MH-23-03092021	3/9/21	1437	W				G	6	X X X				
	MH-34-03082021	3/8/21	1615	W				G	6	X X X				
	DMU-2-03092021	3/9/21	1607	W				G	6	X X X				
Sampler's Name: Andrew Waser, Adam High		Relinquished By / Affiliation		Date	Time	Accepted By / Affiliation		Date	Time					
Sampler's Company: Parsons		a w / BTS		3/10/21		Shipped via FedEx								
Ship Method: FedEx		Ship Date: 3/10/21						3/12	9:00					
Shipment Tracking No:														
Special Instructions:														
THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No Temp Blank: Yes / No Cooler Temp on Receipt: °F/C Trip Blank: Yes / No MS/MSD Sample Submitted: Yes / No														

Proprietary and Confidential
Property of BP and its Affiliates

0.513-0.6 A7

BP LaMP Soil/H2O COC July 2018

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

Page 1 of 14
No XXX

BP Site Node Path: BP>USA>WA>WA-MH-34 (Manhole 34 Project Site)

Reg Due Date (mm/dd/yy):

Rush TAT Yes

No XXX

Lab Work Order Number:

[illegible]

BP LaMP Soil/H2O COC July 2018