



**FOURTH QUARTER 2020
GROUNDWATER MONITORING REPORT
Former Pilot Travel Center #389
1512 Highway 97
Ellensburg, Kittitas County, Washington
Facility/Site ID#: 18911356
Parcel #: 376133**

Prepared for:

Mr. Joey Cupp
Pilot Travel Centers LLC
5508 Lonas Drive
Knoxville, Tennessee 37939-0146

Prepared by:

Broadbent & Associates, Inc.
2340 SE Gladstone Street
Portland, Oregon
(503) 219-9559

January 31, 2021

Project No. 10-08-102



BROADBENT

2340 SE Gladstone Street, Portland, OR 97202

[T] 503.213.9559

broadbentinc.com

CREATING SOLUTIONS. BUILDING TRUST.

January 31, 2021

Project No. 10-08-102

Pilot Travel Centers LLC
5508 Lonas Drive
Knoxville, Tennessee 37939-0146

Attn.: Mr. Joey Cupp, Director - Environmental

Re: Fourth Quarter 2020 Groundwater Monitoring Report
Former Pilot Travel Center #389
1512 Highway 97, Ellensburg, Kittitas County, Washington
Facility/Site ID#: 18911356, Parcel #: 376133

Dear Mr. Cupp:

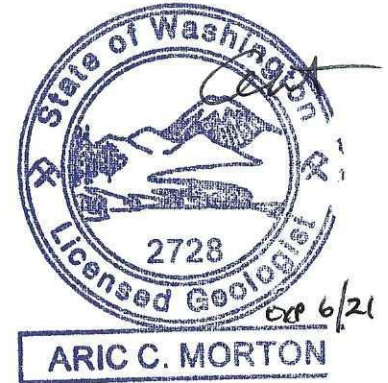
Attached is the *Fourth Quarter 2020 Groundwater Monitoring Report* for former Pilot Travel Center #389 located at 1512 Highway 97, Ellensburg, Kittitas County, Washington. This document includes a description of field activities and analytical results associated with Fourth Quarter 2020 groundwater monitoring and sampling activities.

Should you have questions or require additional information, please do not hesitate to contact us at (503) 219-9559.

Sincerely,
BROADBENT & ASSOCIATES, INC.

James Ormerod
Senior Staff Geologist

Aric C. Morton, L.G.
Principal Geologist



cc: Mr. Frank Winslow, Department of Ecology, 1250 W. Alder Street, Union Gap, WA 98908-3452
Mr. Michael Key, Love's Travel Stops & Country Stores, 10601 N. Pennsylvania, Oklahoma City,
OK 73120

**FOURTH QUARTER 2020
GROUNDWATER MONITORING REPORT
FORMER PILOT TRAVEL CENTER #389
ELLENSBURG, KITTITAS COUNTY, WASHINGTON**

Broadbent & Associates, Inc. (Broadbent) is pleased to present this *Fourth Quarter 2020 Groundwater Monitoring Report* on behalf of Pilot Travel Centers LLC (Pilot) for former Pilot Travel Center #389 (PTC #389 or Site) located in Ellensburg, Kittitas County, Washington. Monitoring activities were performed in accordance with an agreement with the State of Washington – Department of Ecology (Ecology) to evaluate Site conditions. Drawing 1 provides a Site Location Map and Drawing 2 depicts the Site with associated well locations and general improvements. Details of work performed, discussion of results, and recommendations are provided below.

Facility Name / Address:	Former Pilot Travel Center #389 1512 Highway 97, Ellensburg, Kittitas County, Washington
Pilot Project Manager / Title:	Mr. Joey Cupp, Director, Environmental (865) 588-7488
Broadbent Contact:	Mr. Aric Morton, (530) 518-3437
Broadbent Project No.:	10-08-102
Primary Regulatory Agency / ID No.:	State of Washington-Department of Ecology (Ecology) Facility/Site ID#: 18911356, Parcel #: 376133
Current phase of project:	Monitoring and evaluation of Site conditions
List of Acronyms / Abbreviations:	See end of report text for list of acronyms/abbreviations used in report.

WORK PERFORMED THIS QUARTER (Fourth Quarter 2020):

1. Submitted Broadbent’s October 31, 2020 *Third Quarter 2020 Groundwater Monitoring Report*.
2. Conducted groundwater monitoring and sampling for Fourth Quarter 2020 on December 8 and 9, 2020.
3. Conducted vault and casing inspection on MW-6 on December 9, 2020.

WORK SCHEDULED FOR NEXT QUARTER (First Quarter 2021):

1. Prepare and submit *Fourth Quarter 2020 Groundwater Monitoring Report* (contained herein).
2. Complete the off-Site property access agreement to facilitate installation of additional off-Site monitor wells during First Quarter 2021.
3. Install off-Site wells MW-12, MW-13, MW-14, and MW-17.
4. Coordinate necessary wellhead repairs to MW-6.
5. Develop new off-Site wells and perform First Quarter 2021 groundwater monitoring and sampling.

QUARTERLY MONITORING PLAN SUMMARY:

Groundwater level gauging:	MW-1, MW-3, MW-7 through MW-11, MW-15, MW-16, RW-1 and RW-2	(quarterly)
Groundwater sample collection:	MW-1, MW-3, MW-7 through MW-11, MW-15, MW-16, RW-1 and RW-2	(quarterly)

QUARTERLY RESULTS SUMMARY:

LNAPL

LNAPL observed this quarter:	None	(yes\no)
LNAPL recovered this quarter:	None	(gal)
Cumulative LNAPL recovered:	None	(gal)

Groundwater Elevation and Gradient:

Depth to groundwater:	6.47 (MW-16) to 8.90 (MW-7)	(ft below TOC)
Gradient direction:	South	(compass direction)
Gradient magnitude:	0.003	(ft/ft)
Average change in elevation:	-2.29	(ft since last measurement)

Laboratory Analytical Data

Summary:

The following sample detections were noted above MTCA Cleanup Regulation levels: GRO in seven (5) samples; DRO in three (3) samples; Benzene in eight (8) samples; Ethylbenzene and Total Xylenes in two (2) samples; and various PAHs in six (6) samples.

ACTIVITIES CONDUCTED & RESULTS:

Fourth Quarter 2020 groundwater monitoring and sampling was conducted on December 8 and 9, 2020. Wells MW-1, MW-3, MW-7 through MW-11, MW-15, MW-16, RW-1 and RW-2 were monitored for depth to water and the presence of LNAPL. No irregularities were reported during monitoring activities with the exception that well MW-6 was not monitored for depth to water or presence of LNAPL due to a damaged well vault. SoakEase absorbent socks in wells MW-1, MW-9, and MW-10 were replaced and/or adjusted for efficiency. Measured depths to groundwater ranged from 6.47 feet below ground surface (ft bgs) in well MW-16 to 8.90 ft bgs in well MW-7. Water level elevations yielded a groundwater gradient with a general direction to the South at an approximate magnitude of 0.003 ft/ft as depicted on Drawing 3. Broadbent’s groundwater monitoring and sampling field procedures are provided in Appendix A. Groundwater monitoring field data sheets are provided in Appendix B. Measured depths to groundwater and respective groundwater elevations are summarized in Table 1.

Current and historical groundwater elevations and groundwater sample analytical data are provided in Tables 1 and 2. The laboratory analytical report and chain of custody record associated with this monitoring event are provided in Appendix C.

Groundwater samples were collected from MW-1, MW-3, MW-7 through MW-11, MW-15, MW-16, RW-1, and RW-2. No irregularities were reported during sampling activities. Samples were submitted to Alpha Analytical of Sparks, Nevada, for analyses of DRO by Northwest Total Petroleum Hydrocarbons - Diesel Extended Method, GRO by Northwest Total Petroleum Hydrocarbons - Gasoline Extended Method, Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX) by EPA Method 8260, and Semi-Volatile Organic Compounds by EPA Method 8270 with Selected Ion Monitoring (SIM) for polycyclic aromatic compounds (PAHs).

The laboratory noted the following irregularities during analysis:

- DRO concentrations reported in samples MW-1, MW-3, MW-9, MW-15, and RW-2 may include contributions from lighter-end hydrocarbons (e.g. gasoline) that elute in the DRO range; and
- Reporting Limits were increased due to high concentrations of various target analytes (MW-1, MW-3, MW-9, MW-11, MW-15, and RW-2).

No other significant irregularities were reported by the laboratory.

Observed concentration ranges above MTCA Cleanup Regulation levels include the following:

- DRO in three (3) samples with concentrations ranging from 750 micrograms per liter (µg/L) in MW-15 to 2,500 µg/L in MW-1;
- GRO in five (5) samples ranging from 880 µg/L in RW-2 to 32,000 µg/L in MW-1;
- Benzene in eight (8) samples ranging from 9.0 µg/L in MW-10 to 5,400 µg/L in MW-1;
- Ethylbenzene in samples MW-1 and MW-9 at 1,800 µg/L and 950 µg/L, respectively; and

- Total Xylenes in two (2) samples at 4,500 µg/L in MW-9 and 5,000 µg/L in MW-1.

PAHs were detected above cleanup levels in six (6) samples and are summarized in Table 2. Drawing 4 includes laboratory analytical results for GRO, DRO, and Benzene.

DISCUSSION:

Fourth Quarter 2020 groundwater monitoring and sampling was conducted on wells MW-1, MW-3, MW-7 through MW-11, MW-15, MW-16, RW-1, and RW-2. The groundwater gradient for Fourth Quarter 2020 had a magnitude and direction of 0.003 ft/ft to the South. Groundwater elevations decreased an average of 2.29 feet when compared to Third Quarter 2020 elevations. Fourth Quarter 2020 analytical concentrations were within historical minimum and maximum ranges for the Site. SoakEase absorbent socks in wells MW-1, MW-9, and MW-10 were replaced and/or adjusted to for efficiency. In addition, on-Site well MW-6 is damaged and requires additional evaluation and repair.

RECOMMENDATIONS:

It is recommended to continue with quarterly groundwater monitoring and sampling to evaluate residual impacts to groundwater from petroleum hydrocarbons and the presence of LNAPL in select wells. First Quarter 2021 activities are expected to include installation of additional off-Site monitor wells MW-12, MW-13, MW-14, and MW-17 to be included during conduct of the First Quarter 2021 groundwater monitoring and sampling event. In addition, on-Site well MW-6 will be inspected and repaired as necessary as it has been damaged. Additional well installation will assist with further delineation associated with the presence of residual hydrocarbon mass in groundwater.

LIMITATIONS:

The findings presented in this report are based upon observations of field personnel, points investigated, results of laboratory tests performed by Alpha Analytical Inc. of Sparks, Nevada and our understanding of State of Washington Department of Ecology practices. Our services were performed in accordance with the generally accepted standard of practice at the time this report was written. No other warranty, expressed or implied was made. This report has been prepared for the exclusive use of Pilot Travel Centers LLC. It is possible that variations in soil or groundwater conditions could exist beyond points explored in this investigation. Also, changes in site conditions could occur in the future due to variations in rainfall, temperature, regional water usage, or other factors.

ATTACHMENTS:

- Drawing 1. Site Location Map
- Drawing 2. Site Map
- Drawing 3. Groundwater Elevation Contour Map
- Drawing 4. Groundwater Analytical Summary Map

- Table 1: Summary of Groundwater Monitoring Data and DRO, GRO, ORO & BTEX Analytical Results
- Table 2: Laboratory Analytical Results for Semi-volatile Organics by GC/MS (SIM)
- Table 3: Magnitude and Direction of Groundwater Gradient

- Appendix A: Field Methods
- Appendix B: Field Data Sheets
- Appendix C: Laboratory Report and Chain of Custody Documentation

LIST OF COMMONLY USED ACCRONYMS/ABBREVIATIONS:

BTEX:	benzene, toluene, ethylbenzene, total xylenes	LNAPL:	light non-aqueous phase liquid
DO:	dissolved oxygen	MTBE:	methyl tertiary butyl ether
DRO:	diesel range organics	NO ₃ :	nitrate as nitrogen
Eh:	oxidation reduction potential	PAHs:	polycyclic aromatic hydrocarbons
Fe ²⁺ :	ferrous iron	SO ₄ :	sulfate
ft/ft:	feet per foot	SVOCs:	semi-volatile organic compounds
gal:	gallons	TOC:	top of casing
GRO:	gasoline range organics	µg/L:	micrograms per liter
Ecology	Washington State Department of Ecology		

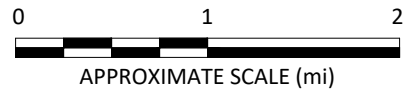
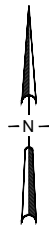
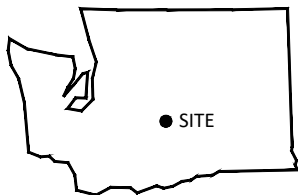
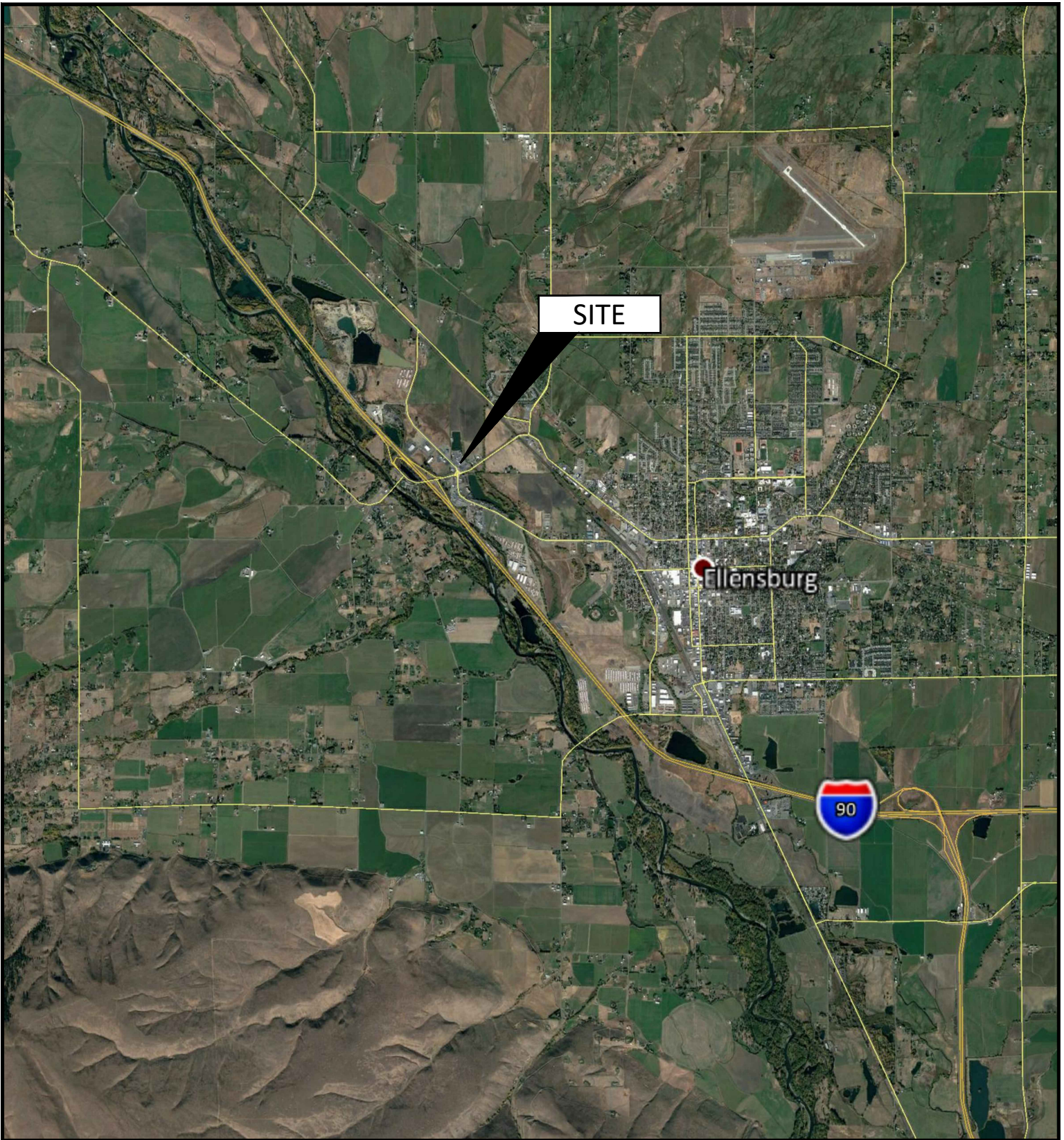


IMAGE SOURCE: Google Earth



2340 SE Gladstone St.
Portland, Oregon 97202

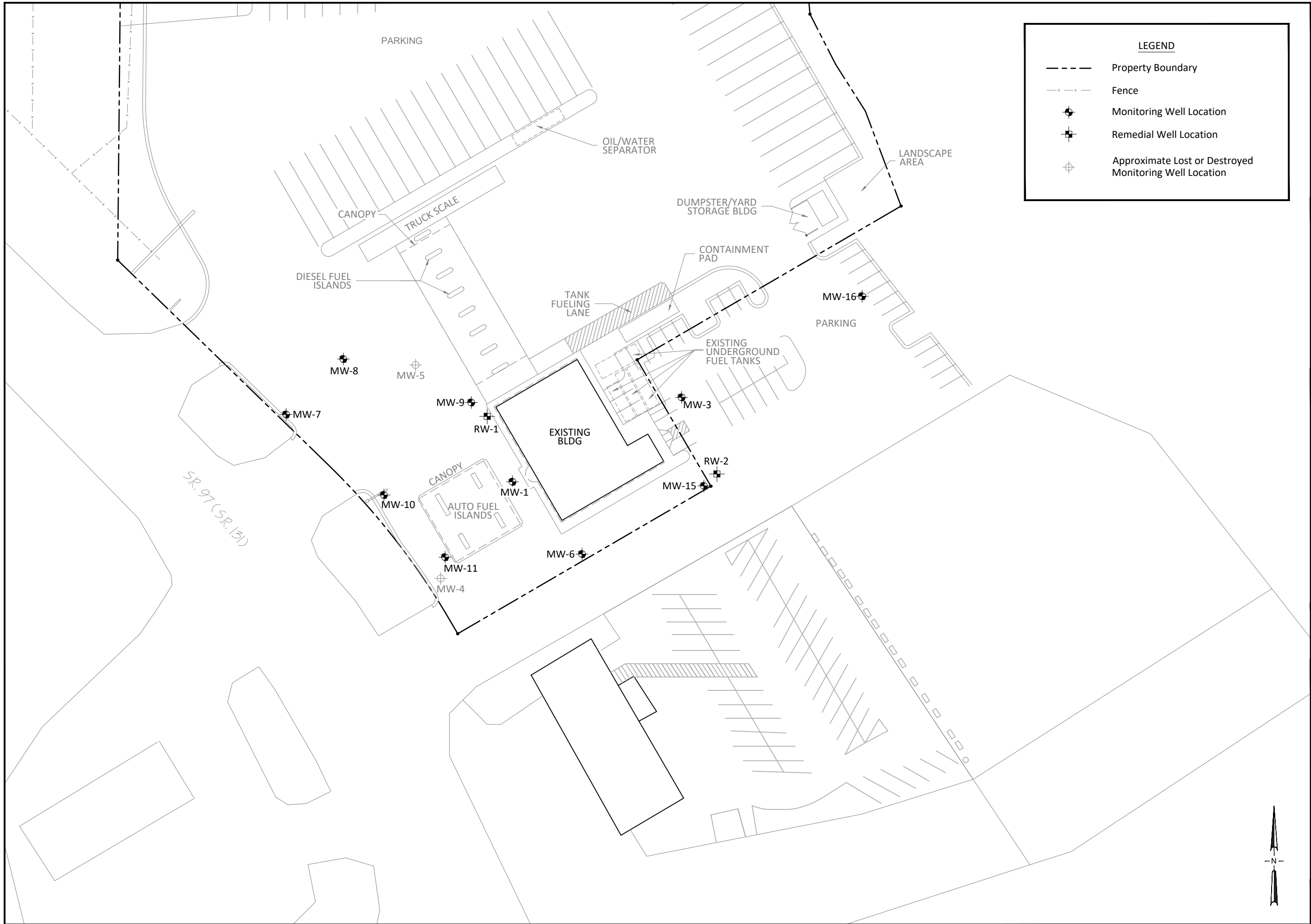
Project No.: 10-08-102 Date: 1/18/2021

Former Pilot Travel Center #389
1512 Highway 97
Ellensburg, Kittitas County, Washington

Site Location Map

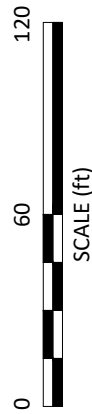
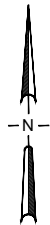
Drawing

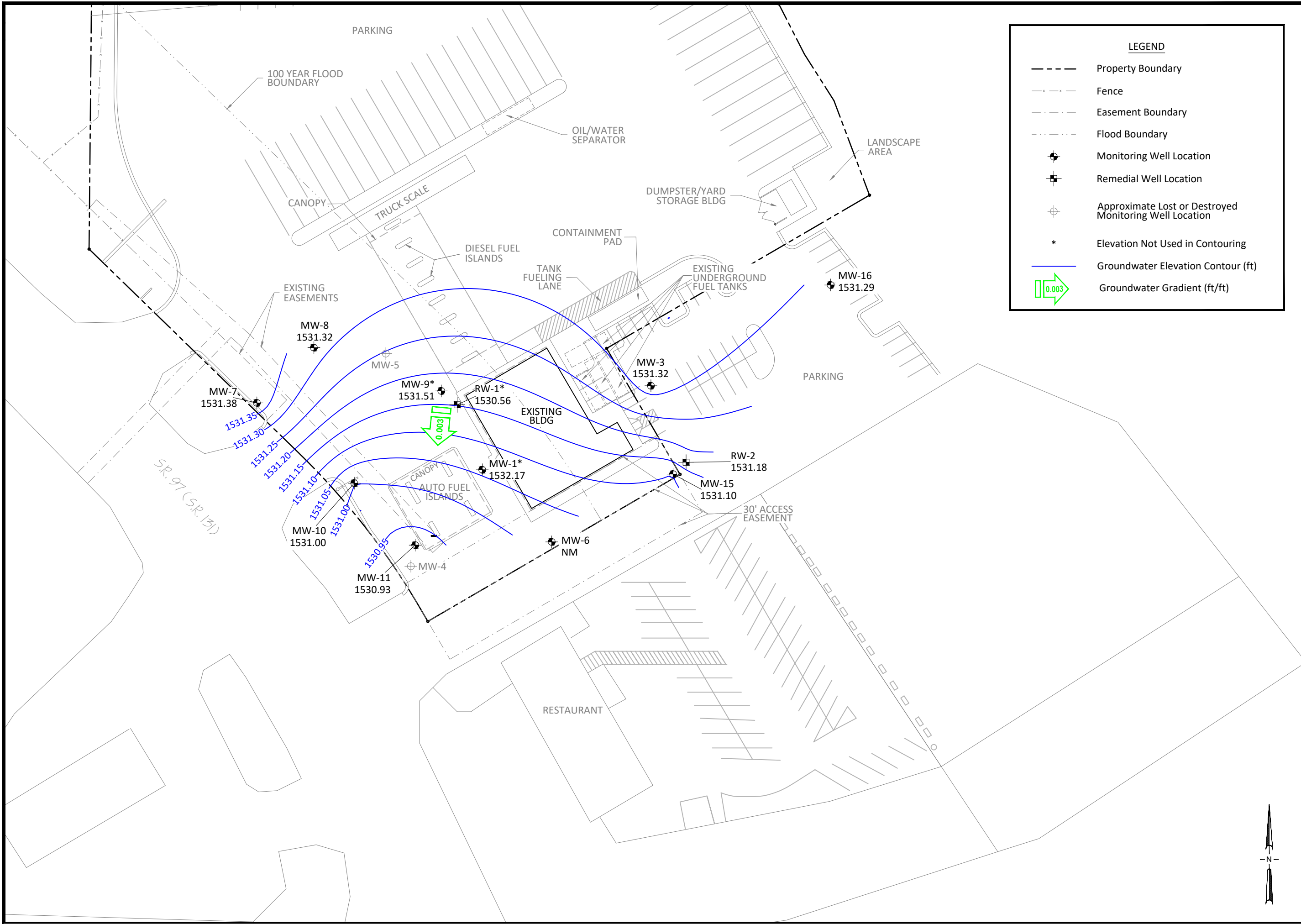
1



LEGEND

- Property Boundary
- - - Fence
- ⊕ Monitoring Well Location
- ⊕ Remedial Well Location
- ⊕ Approximate Lost or Destroyed Monitoring Well Location







**Table 1. Summary of Groundwater Monitoring Data and DRO, GRO, ORO & BTEX Analytical Results
Former Pilot Travel Center #389, 1512 Highway 97, Ellensburg, Kittitas County, Washington**

Well number and date	Top-of-casing elevation in feet above msl	Depth-to-water, feet	Depth-to-product, feet	Product thickness, feet	Water-level elevation, above msl†	Change since last measurement, feet	Concentrations in µg/L						
							DRO	GRO	ORO	Benzene	Toluene	Ethylbenzene	Xylenes
MW-1													
11/9/1995	1535.53	8.54			1526.99	---	---	---		18.0	1.4	3.9	5.9
7/24/1996		5.87			1529.66	2.67	<250	52		9.1	0.8	0.7	2.6
12/16/2010 ¹		7.70			1527.83	-1.83	200,000	140,000	---	610	4,700	2,000	14,000
3/18/2011	1539.70	7.90			1531.80	3.97	14,000	83,600	2,010	2,620 [^]	8,080 [^]	1,090 [^]	7,470 [^]
6/7/2011		6.63			1533.07	1.27	22,500	104,000	<3,800	3,200	9,420	1,710	11,300
8/25/2011		6.86			1532.84	-0.23	336	71,000	<190	3,480	10,700	1,450	8,480
11/16/2011		8.79			1530.91	-1.93	1,700	29,000	---	1,100	2,700	980	5,400
3/8/2012		8.24			1531.46	0.55	3,000	64,000	---	4,900	8,400	970	13,000
5/9/2012		6.66			1533.04	1.58	4,200	48,000	---	4,400	5,200	320	9,800
9/22/2012		7.80			1531.90	-1.14	3,400	110,000	2,300	9,200	20,000	1,100	15,000
12/7/2012		8.59			1531.11	-0.79	6,500 Z	21,000	5,800	1,800	1,300	790	5,300
3/7/2013		8.63			1531.07	-0.04	1,700	9,200	960	620	350	270	1,600
6/12/2013		6.92			1532.78	1.71	1,200	70,000	---	7,600	14,000	500	9,800
8/27/2013		6.86			1532.84	0.06	1,700	75,000	---	5,500	9,500	720	11,000
12/11/2013		8.89			1530.81	-2.03	900	19,000	---	1,200	290	390	2,900
3/25/2014		8.51			1531.19	0.38	2,800 Z	24,000	---	1,900	990	730	4,100
6/16/2014		6.86			1532.84	1.65	2,500 Z	42,000	1,300	5,100	2,600	870	8,000
8/19/2014	1539.68	6.81			1532.87	0.03	2,300 Z	<30,000 V	---	3,900	980	660	8,300
11/17-18/2014		8.17			1531.51	-1.36	2,000	19,000	---	3,600	310	810	2,900
3/20/2015		8.89	8.81 [#]	0.08	1530.85	-0.66	4,700	35,000	---	1,600	2,700	900	5,100
6/17/2015		7.97			1531.71	0.86	1,200 K	55,000	---	5,300	5,700	1,600	8,400
9/24/2015		7.24			1532.44	0.73	3,500	48,000	---	5,300	620	1,400	8,900
12/8-9/15		8.31			1531.37	-1.07	2,300	30,000	---	2,400	310	1,500	6,200
3/10/2016		4.68			1535.00	3.63	2,400	49,000	---	4,700	470	1,900	11,000
6/16-17/16		7.14			1532.54	-2.46	1,500	44,000	---	5,900	290	2,000	11,000
9/22/2016		7.73			1531.95	-0.59	780 K	59,000	---	6,700	370	3,100	20,000
11/17/2016		7.93			1531.75	-0.20	530 K	47,000	---	5,600	290	2,000	10,000
3/23/2017		6.21			1533.47	1.72	1,400 K	49,000	---	6,100	1,000	2,400	18,000
6/22/2017		7.15			1532.53	-0.94	1,500 K	55,000	---	4,900	380	2,000	9,300
9/20/2017		6.96			1532.72	0.19	1,700 K	45,000	---	5,700	280	2,000	8,000
12/7/2017		7.99		Sheen	1531.69	-1.03	620 K	50,000	---	6,000	260	2,300	8,700
3/19/2018		8.23		HC Odor	1531.45	-0.24	2,400 K	40,000	---	5,800	320	2,700	10,000
6/22/2018		6.35			1533.33	1.88	4,000 K	53,000	---	5,600	1,200	2,500	17,000
9/26/2018		6.32		HC Odor	1533.36	0.03	1,500 K	39,000	---	4,300	630	2,200	8,800
11/29/2018		8.67	8.66	0.01	1531.02	-2.34	3,000 K	35,000	---	3,200	130	2,100	4,200
3/20/2019		6.94		HC Odor	1532.74	-0.62	1,500 K	11,000	---	390	35	700	1,200
6/11/2019		8.29			1531.39	-1.35	910 K	48,000	---	6,600	580	4,000	20,000
9/22/2019		6.65		HC Odor	1533.03	1.64	3,500 K	54,000	---	6,300	690	2,000	12,000
11/13/2019		10.09	9.93	0.16	1529.73	-3.30	---	---	---	---	---	---	---
3/25/2020		8.84		HC Odor	1530.84	1.11	2,100 K	39,000	---	4,700	200	2,600	5,800
6/23/2020		6.75		HC Odor & Sheen	1532.93	2.09	4,400 Z	54,000	---	6,200	390	2,300	7,100
9/23/2020		6.10			1533.58	0.65	2,100 K	38,000	---	5,200	170	2,100	6,400
12/9/2020		7.51			1532.17	-1.41	2,500 K	32,000	---	5,400	120	1,800	5,000
MW-2													
11/9/1995	1535.46	8.24			1527.22	---	---	---		<0.5	<0.5	<0.5	<0.5
7/24/1996		5.37			1530.09	2.87	<250	<50		<0.5	<0.5	<0.5	1.4
12/16/2010							Well destroyed or lost						

**Table 1. Summary of Groundwater Monitoring Data and DRO, GRO, ORO & BTEX Analytical Results
Former Pilot Travel Center #389, 1512 Highway 97, Ellensburg, Kittitas County, Washington**

Well number and date	Top-of-casing elevation in feet above msl	Depth-to-water, feet	Depth-to-product, feet	Product thickness, feet	Water-level elevation, above msl†	Change since last measurement, feet	Concentrations in µg/L						
							DRO	GRO	ORO	Benzene	Toluene	Ethylbenzene	Xylenes
MW-3													
11/9/1995	1534.98	7.72			1527.26	---	---	---		0.7	<0.5	<0.5	<0.5
7/24/1996		5.22			1529.76	2.50	<250	260		8	45	2.9	29
12/16/2010 ²		8.49			1526.49	-3.27	750	1,400	---	20	9.9	31.0	12.0
3/18/2011	1539.00	7.03			1531.97	5.48	815	3,210	<190	28	11.3	94.6	108
6/7/2011		5.76			1533.24	1.27	3,320	2,560	<940	65	7.0	129.0	104
8/25/2011		5.99			1533.01	-0.23	462	1,220	<190	17.2	1.1	34.4	30.6
11/16/2011		7.92			1531.08	-1.93	820	1,200	---	18	<0.50	52.0	20
3/8/2012		7.34			1531.66	0.58	1200	2,600	---	140	4.7	190	150
5/9/2012		5.78			1533.22	1.56	3,900	2,500	---	110	10.0	200	190
9/22/2012		6.91			1532.09	-1.13	510	1100	<500	31	2.9	44	22
12/7/2012		7.75			1531.25	-0.84	650	960	<500	24	0.90	64	15
3/7/2013		7.81			1531.19	-0.06	1,200	1,600	520	36	0.55	79	21
6/12/2013		6.03			1532.97	1.78	2,000	1,100	---	35	1.2	29	3.8
8/27/2013		5.96			1533.04	0.07	1,000	1,100	---	21	0.7	25	5
12/11/2013		8.05			1530.95	-2.09	1,300	1,400	---	41	<1.0	26	1.7
3/25/2014		7.61			1531.39	0.44	2,900	2,000	---	53	<1.0 V	150	43
6/16/2014		6.04			1532.96	1.57	690	670	<500	21	<0.50	18	2.4
8/19/2014	1538.93	6.02			1532.91	-0.05	460	460	---	17	<0.50	1.7	0.52
11/17-18/2014		7.30			1531.63	-1.28	440	690	---	14	<0.50	12	0.56
3/20/2015		7.84			1531.09	-0.54	780	920	---	14	<0.50	16	0.76
6/17/2015		7.08			1531.85	0.76	990	1,200	---	21	1.6	8.7	1.6
9/24/2015		6.40			1532.53	0.68	760	790	---	16	0.52	1.9	0.66
12/8-9/15		7.65			1531.28	-1.25	1,500	1,200	---	22	0.55	11	0.86
3/10/2016		4.79			1534.14	2.86	1,000	1,700	---	160	220	70	15
6/16-17/16		6.24			1532.69	-1.45	690	13,000	---	1,200	6,700	85	520
9/22/2016		6.49			1532.44	-0.25	550 K	2,700	---	320	57	180	620
11/16/2016		7.06			1531.87	-0.57	650	5,500	---	170	250	400	1,400
3/23/2016		5.29			1533.64	1.77	1,600	4,100	---	190	20	310	320
6/22/2017		6.32			1532.61	-1.03	580	2,600	---	61	6.8	140	330
9/20/2017		6.09			1532.84	0.23	420	920	---	21	2.2	7.4	17
12/7/2017		7.10			1531.83	-1.01	530 K	1,400	---	49	15	9.9	22
3/18/2018		7.35			1531.58	-0.25	1,200 K	1,600	---	37	6.3	8.1	10
6/21/2018		5.33			1533.60	2.02	760 K	2,300	---	23	3.0	28	50
9/26/2018		5.50			1533.43	-0.17	950	1,500	---	27	3.7	5.6	12
11/28/2018		7.81		HC Odor	1531.12	-2.31	970 K	1,500	---	23	2.8	0.79	4.0
3/20/2019		5.68			1533.25	2.13	1,000 K	1,300	---	29	1.4	1.4	1.6
6/11/2019		7.61			1531.32	-1.93	1,700 K	1,600	---	15	7.1	5.3	9.3
9/22/2019		5.72			1533.21	1.89	1,700	1,000	---	12	1.8	0.77	2.5
11/13/2019		8.92			1530.01	-3.20	820	630	---	9.1	<0.50	<0.50	<0.50
3/24/2020		7.92			1531.01	1.00	5,500	920	---	20	0.98	1.1	1.3
6/23/2020		5.90			1533.03	2.02	2,000 Z	1,100	---	5.3	0.52	2.3	1.2
9/23/2020		5.31			1533.62	0.59	1,000 K	1,100	---	5.6	0.60	0.90	1.6
12/8/2020		7.61			1531.32	-2.30	1,400 K	990	---	7.6	0.52	<0.50	0.57
MW-4													
7/24/1996	1536.48	7.12			1529.36		<250	<50		<0.5	<0.5	<0.5	<0.5
12/16/2010							Well destroyed or lost						
MW-5													
7/24/1996	1535.02	5.07			1529.95		<250	<50		<0.5	<0.5	<0.5	<0.5
12/16/2010							Well abandoned						

**Table 1. Summary of Groundwater Monitoring Data and DRO, GRO, ORO & BTEX Analytical Results
Former Pilot Travel Center #389, 1512 Highway 97, Ellensburg, Kittitas County, Washington**

Well number and date	Top-of-casing elevation in feet above msl	Depth-to-water, feet	Depth-to-product, feet	Product thickness, feet	Water-level elevation, above msl†	Change since last measurement, feet	Concentrations in µg/L							
							DRO	GRO	ORO	Benzene	Toluene	Ethylbenzene	Xylenes	
MW-6														
12/16/2010 ³	---	8.11					<250	<250	---	23	0.8	2.9	2.9	
3/18/2011	1539.14	7.54			1531.60	0.57	287	303	814	39.5	1.0	13.2	18.7	
6/7/2011		6.25			1532.89	1.29	318	490	1,060	90.4	1.2	12.9	9.6	
8/25/2011		6.45			1532.69	-0.20	<94	67.8	<190	2.3	<0.5	<0.5	<1.0	
11/16/2011		8.41			1530.73	-1.96	<250	<250	---	11.0	<0.50	0.8	<0.50	
3/8/2012		7.86			1531.28	0.55	460 L	<250	---	24.0	<0.50	2.4	2.4	
5/9/2012		6.35			1532.79	1.51	<250	<250	---	14	<0.50	1.2	<0.50	
9/22/2012		7.47			1531.67	-1.12	<250	<250	<500	<0.50	<0.50	<0.50	<0.50	
12/7/2012		8.23			1530.91	-0.76	<250	850	870	250	4.0	11	6.1	
3/7/2013		8.23			1530.91	0.00	670 L	550	3,100	39	<0.50	0.94	1.1	
6/12/2013		6.62			1532.52	1.61	310 L	730	---	130	1.1	5.2	1.8	
8/27/2013		6.52			1532.62	0.10	1,700 L	1,300	---	330	2.0	13	7.3	
12/11/2013		8.49			1530.65	-1.97	440 L	350	---	30	<1.0	<1.0	<1.0	
3/25/2014		8.14			1531.00	0.35	1,200 L	360	---	33	<0.50	0.79	0.58	
6/16/2014		6.53			1532.61	1.61	4,100 L	630	14,000	130	5.8	7.4	<2.5 O	
8/19/2014	1539.13	6.49			1532.64	0.03	1,100 L	1,400	---	500	52	21	9.0	
11/17-18/2014		7.77			1531.36	-1.28	1,300	310	--	14	55	2.4	1.8	
3/20/2015		8.28			1530.85	-0.51	3,500 L	<250	--	3.1	35	<0.50	<0.50	
6/17/2015		7.66			1531.47	0.62	830 L	480	--	60	86	2.1	1.9	
9/24/2015		6.84			1532.29	0.82	1900 L	980	--	410	34	13	24	
12/8-9/15		8.11			1531.02	-1.27	850 L	2,100	--	560	20	37	58	
3/10/2016		5.41			1533.72	2.70	680 L	2,800	--	470	18	61	110	
6/16-17/16		6.68			1532.45	-1.27	670 L	<250	--	2.3	1.6	0.76	1.4	
9/22/2016		6.95			1532.18	-0.27	570 L	590 L	--	170	9.6	10	23	
11/16/2016		7.53			1531.60	-0.58	570 L	550	--	190	1.9	10	11	
3/23/2017		3.93			1535.20	3.60	970 L	860	--	69	1	17	5.8	
6/22/2017		6.82			1532.31	-2.89	520 L	490	--	49	2.4	2.7	8.1	
9/20/2017		6.62			1532.51	0.20	560 L	760	--	140	<1.0 V	2.1	1.1	
12/7/2017		7.66		Sheen	1531.47	-1.04	700 L	880	--	220	1.9	3.2	4.2	
3/18/2018		7.85		HC Odor	1531.28	-0.19	1,000 L	890	--	190	1.4	5.6	3.1	
6/21/2018		5.85		HC Odor	1533.28	2.00	1,000 L	1,100	--	240	19	4.6	10	
9/26/2018		5.99		HC Odor	1533.14	-0.14	5,500 L	2,000	--	280	49	18	61	
11/29/2018		8.28			1530.85	-2.43	1,500 L	370	--	6.2	39	0.55	0.73	
3/20/2019					Well vault damaged and inaccessible									

**Table 1. Summary of Groundwater Monitoring Data and DRO, GRO, ORO & BTEX Analytical Results
Former Pilot Travel Center #389, 1512 Highway 97, Ellensburg, Kittitas County, Washington**

Well number and date	Top-of-casing elevation in feet above msl	Depth-to-water, feet	Depth-to-product, feet	Product thickness, feet	Water-level elevation, above msl†	Change since last measurement, feet	Concentrations in µg/L						
							DRO	GRO	ORO	Benzene	Toluene	Ethylbenzene	Xylenes
MW-7													
8/19/2014	1540.28	6.43			1533.85	---	<250	<250	---	<0.50	<0.50	<0.50	<0.50
11/17-18/2014		6.60			1533.68	-0.17	<250	<250	---	<0.50	<0.50	<0.50	<0.50
3/20/2015		8.76			1531.52	-2.16	<250	<250	---	<0.50	<0.50	<0.50	<0.50
6/17/2015		6.75			1533.53	2.01	<250	<250	---	<0.50	<0.50	<0.50	<0.50
9/24/2015		6.55			1533.73	0.20	<250	<250	---	<0.50	<0.50	<0.50	<0.50
12/8-9/15		8.64			1531.64	-2.09	<250	<250	---	<0.50	<0.50	<0.50	<0.50
3/10/2016		5.52			1534.76	3.12	<250	<250	---	<0.50	<0.50	<0.50	<0.50
6/16-17/16		7.22			1533.06	-1.70	<250	<250	---	<0.50	<0.50	<0.50	0.58
9/22/2016		7.82			1532.46	-0.60	<250	<250	---	<0.50	<0.50	<0.50	<0.50
11/17/2016		8.43			1531.85	-0.61	<250	<250	---	<0.50	<0.50	<0.50	<0.50
3/23/2017		6.78			1533.50	1.65	<250	<250	---	<0.50	<0.50	<0.50	<0.50
6/22/2017		6.56			1533.72	0.22	<250	<250	---	<0.50	<0.50	<0.50	<0.50
9/20/2017		7.16			1533.12	-0.60	<250	<250	---	<0.50	<0.50	<0.50	<0.50
12/7/2017		8.51			1531.77	-1.35	<250	<250	---	<0.50	<0.50	<0.50	<0.50
3/19/2018		8.80			1531.48	-0.29	<250	<250	---	<0.50	<0.50	<0.50	<0.50
6/21/2018		6.36			1533.92	2.44	<250	<250	---	<0.50	<0.50	<0.50	<0.50
9/26/2018		6.68			1533.60	-0.32	<250	<250	---	<0.50	<0.50	<0.50	<0.50
11/29/2018		9.19			1531.09	-2.51	<250	<250	---	<0.50	<0.50	<0.50	<0.50
3/20/2019		5.60			1534.68	3.59	<250	<250	---	<0.50	<0.50	<0.50	<0.50
6/11/2019		8.53			1531.75	-2.93	<250	<250	---	<0.50	<0.50	<0.50	<0.50
9/22/2019		6.79			1533.49	1.74	<250	<250	---	<0.50	<0.50	<0.50	<0.50
11/13/2019		10.32			1529.96	-3.53	<250	<250	---	<0.50	<0.50	<0.50	<0.50
3/24/2020		9.31			1530.97	1.01	<250	<250	---	<0.50	<0.50	<0.50	<0.50
6/23/2020		7.11			1533.17	2.20	<250	<250	---	<0.50	<0.50	<0.50	<0.50
9/23/2020		6.12			1534.16	0.99	<250	<250	---	<0.50	<0.50	<0.50	<0.50
12/9/2020		8.90			1531.38	-2.78	<250	<250	---	<0.50	<0.50	<0.50	<0.50
MW-8													
8/19/2014	1539.17	6.11			1533.06	---	<250	<250	---	<0.50	<0.50	<0.50	<0.50
11/17-18/2014		7.49			1531.68	-1.38	<250	<250	---	<0.50	<0.50	<0.50	<0.50
3/20/2015		8.01			1531.16	-0.52	<250	<250	---	<0.50	<0.50	<0.50	<0.50
6/17/2015		7.23			1531.94	0.78	<250	<250	---	<0.50	<0.50	<0.50	<0.50
9/24/2015		6.52			1532.65	0.71	<250	<250	---	<0.50	<0.50	<0.50	<0.50
12/8-9/15		7.65			1531.52	-1.13	<250	<250	---	<0.50	<0.50	<0.50	<0.50
3/10/2016		5.13			1534.04	2.52	<250	<250	---	<0.50	<0.50	<0.50	<0.50
6/16-17/16		6.41			1532.76	-1.28	<250	<250	---	<0.50	<0.50	<0.50	<0.50
9/22/2016		6.65			1532.52	-0.24	<250	<250	---	<0.50	<0.50	<0.50	<0.50
11/16/2016		7.25			1531.92	-0.60	<250	<250	---	<0.50	<0.50	<0.50	<0.50
3/23/2017		5.58			1533.59	1.67	<250	<250	---	<0.50	<0.50	<0.50	2.7
6/22/2017		6.42			1532.75	-0.84	<250	<250	---	<0.50	<0.50	<0.50	<0.50
9/20/2017		6.27			1532.90	0.15	<250	<250	---	<0.50	<0.50	<0.50	<0.50
12/7/2017		7.32			1531.85	-1.05	<250	<250	---	<0.50	<0.50	<0.50	<0.50
3/19/2018		7.57			1531.60	-0.25	<250	<250	---	<0.50	<0.50	<0.50	<0.50
6/22/2018		5.63			1533.54	1.94	<250	<250	---	<0.50	<0.50	<0.50	<0.50
9/26/2018		6.20			1532.97	-0.57	<250	<250	---	<0.50	<0.50	<0.50	<0.50
11/29/2018		8.00			1531.17	-1.80	<250	<250	---	<0.50	<0.50	<0.50	<0.50
3/20/2019		6.24			1532.93	1.76	<250	<250	---	<0.50	<0.50	<0.50	<0.50
6/11/2019		7.66			1531.51	-1.42	<250	<250	---	<0.50	<0.50	<0.50	<0.50
9/22/2019		5.87			1533.30	1.79	<250	<250	---	<0.50	<0.50	<0.50	<0.50
11/13/2019		10.26			1528.91	-4.39	<250	<250	---	<0.50	<0.50	<0.50	<0.50
3/25/2020		8.12			1531.05	2.14	<250	<250	---	<0.50	<0.50	<0.50	<0.50
6/23/2020		6.02			1533.15	2.10	<250	<250	---	<0.50	<0.50	<0.50	<0.50
9/23/2020		5.41			1533.76	0.61	<250	<250	---	<0.50	<0.50	<0.50	<0.50
12/9/2020		7.85			1531.32	-2.44	<250	<250	---	<0.50	<0.50	<0.50	<0.50

**Table 1. Summary of Groundwater Monitoring Data and DRO, GRO, ORO & BTEX Analytical Results
Former Pilot Travel Center #389, 1512 Highway 97, Ellensburg, Kittitas County, Washington**

Well number and date	Top-of-casing elevation in feet above msl	Depth-to-water, feet	Depth-to-product, feet	Product thickness, feet	Water-level elevation, above msl†	Change since last measurement, feet	Concentrations in µg/L						
							DRO	GRO	ORO	Benzene	Toluene	Ethylbenzene	Xylenes
MW-9													
8/19/2014	1539.21	6.15			1533.06	---	330	1,000	---	0.73	<0.50	12	37
11/17-18/2014		7.53			1531.68	-1.38	<250	3,400	---	53	8.4	100	280
3/20/2015		8.04			1531.17	-0.51	420 K	25,000	---	160	30	690	1,700
6/17/2015		7.28			1531.93	0.76	390 K	14,000	---	160	<10 V	610	910
9/24/2015		6.54			1532.67	0.74	520 K	13,000	---	290	10	790	1,100
12/8-9/15		7.68			1531.53	-1.14	510 K	17,000	---	690	33	1,500	1,900
3/10/2016		4.96			1534.25	2.72	<250	<250	---	2.1	21	1.9	10
6/16-17/16		6.51			1532.70	-1.55	750	35,000	---	880	7,800	1,100	7,300
9/22/2016		6.70	6.68	0.02	1532.53	-0.17	---	---	---	---	---	---	---
11/17/2016		7.31	7.30	0.01	1531.91	-0.62	---	---	---	---	---	---	---
3/23/2017		5.62			1533.59	1.68	<250	260	---	2.1	17	8.0	27
6/22/2017		6.48			1532.73	-0.86	710	45,000	---	99	880	71	9,100
9/20/2017		6.29			1532.92	0.19	<250	10,000	---	390	680	420	1,800
12/7/2017		7.36			1531.85	-1.07	<250	5,300	---	69	170	230	940
3/19/2018		7.60			1531.61	-0.24	280 K	1,300	---	4.6	18	35	230
6/22/2018		5.70			1533.51	1.90	<250	<250	---	<0.50	2.1	1.0	2.9
9/26/2018		5.71			1533.50	-0.01	<250	<250	---	<0.50	<0.50	0.67	2.1
11/29/2018		8.03			1531.18	-2.32	<250	740	---	14	11	25	75
3/20/2019		6.17		HC Odor, Sheen	1533.04	1.86	<250	<250	---	1.1	3.2	6.3	29
6/11/2019		7.81			1531.40	-1.64	370 K	29,000	---	25	320	930	9,200
9/22/2019		5.50		Sheen	1533.71	2.31	<250	<250	---	<0.50	<0.50	0.58	3.0
11/13/2019		9.28	9.25	0.03	1529.95	-3.76	---	---	---	---	---	---	---
3/25/2020		8.18		HC Odor	1531.03	1.08	580 K	18,000	---	53	310	170	4,500
6/23/2020		6.10			1533.11	2.08	<250	1,900	---	2.0	3.9	38	200
9/23/2020		5.47			1533.74	0.63	<250	610	---	1.6	1.7	13	48
12/9/2020		7.70			1531.51	-2.23	350 K	21,000	---	250	260	950	4,500
MW-10													
8/19/2014	1539.64	7.00			1532.64	---	<250	<250	---	4.5	<0.50	<0.50	<0.50
11/17-18/2014		8.33			1531.31	-1.33	<250	<250	---	8.4	<0.50	<0.50	<0.50
3/20/2015		8.82			1530.82	-0.49	<250	<250	---	14	0.93	1.1	1.5
6/17/2015		8.11			1531.53	0.71	<250	<250	---	11	<0.50	<0.50	<0.50
9/24/2015		7.29			1532.35	0.82	<250	<250	---	<0.50	<0.50	<0.50	<0.50
12/8-9/15		8.66			1530.98	-1.37	<250	<250	---	<0.50	<0.50	<0.50	<0.50
3/10/2016		6.02			1533.62	2.64	<250	790	---	180	2.1	13	14
6/16-17/16		7.33			1532.31	-1.31	<250	<250	---	<0.50	0.73	<0.50	0.63
9/22/2016		7.53			1532.11	-0.20	<250	<250	---	6.1	<0.50	<0.50	<0.50
11/16/2016		8.12			1531.52	-0.59	<250	<250	---	<0.50	<0.50	<0.50	<0.50
3/23/2017		6.62			1533.02	1.50	<250	1,200	---	300	4.2	27	80
6/22/2017		7.33			1532.31	-0.71	<250	<250	---	<0.50	<0.50	<0.50	<0.50
9/20/2017		7.22			1532.42	0.11	<250	<250	---	<0.50	<0.50	<0.50	<0.50
12/7/2017		8.21			1531.43	-0.99	<250	<250	---	<0.50	<0.50	<0.50	<0.50
3/19/2018		8.44			1531.20	-0.23	<250	<250	---	5.4	<0.50	<0.50	<0.50
6/22/2018		6.95			1532.69	1.49	<250	74,000	---	2,000	26,000	820	9,900
9/26/2018		7.07		HC Odor	1532.57	-0.12	<250	83,000	---	5,700	27,000	1,800	12,000
11/29/2018		9.06	8.81	0.25	1530.79	-1.78	---	---	---	---	---	---	---
3/20/2019		7.39		HC Odor	1532.25	1.46	<250	62,000	---	830	15,000	1,600	14,000
6/11/2019		8.18			1531.46	-0.79	<250	52,000	---	230	11,000	2,100	20,000
9/22/2019		6.92			1532.72	1.26	<250	890	---	7.4	89	13	210
11/13/2019		10.26		HC Odor	1529.38	-3.34	<250	1,300	---	12	120	13	380
3/24/2020		8.94			1530.70	1.32	<250	5,400	---	15	5.0	34	560
6/23/2020		6.90		HC Odor & Sheen	1532.74	2.04	<250	4,400	---	110	180	31	360
9/23/2020		6.89			1532.75	0.01	<250	4,800	---	60	510	65	890
12/8/2020		8.64			1531.00	-1.75	<250	420	---	9.0	<0.50	2.3	19

**Table 1. Summary of Groundwater Monitoring Data and DRO, GRO, ORO & BTEX Analytical Results
Former Pilot Travel Center #389, 1512 Highway 97, Ellensburg, Kittitas County, Washington**

Well number and date	Top-of-casing elevation in feet above msl	Depth-to-water, feet	Depth-to-product, feet	Product thickness, feet	Water-level elevation, above msl†	Change since last measurement, feet	Concentrations in µg/L						
							DRO	GRO	ORO	Benzene	Toluene	Ethylbenzene	Xylenes
MW-11													
8/19/2014	1539.77	7.19			1532.58	---	970	1,200	---	1.0	<0.50	5.8	0.63
11/17-18/2014		8.53			1531.24	-1.34	830	650	---	0.53	<0.50	<0.50	<0.50
3/20/2015		9.03			1530.74	-0.50	4,100	3,900	---	970	920	13	34
6/17/2015		8.35			1531.42	0.68	550	6,600	---	1,600	950	140	460
9/24/2015		7.46			1532.31	0.89	440	1,200	---	580	6.4	35	26
12/8-9/15		8.66			1531.11	-1.20	1,400	2,300	---	1,100	<5.0 V	11	5.6
3/10/2016		6.27			1533.50	2.39	<250	<250	---	72	0.97	<0.50	1.3
6/16-17/16		7.58			1532.19	-1.31	<250	<250	---	60	<0.50	0.90	0.53
9/22/2016		7.74			1532.03	-0.16	<250	<250	---	11	<0.50	0.50	<0.50
11/16/2016		8.34			1531.43	-0.60	380	<250	---	4.6	<0.50	<0.50	<0.50
3/23/2017		7.82			1531.95	0.52	<250	<250	---	0.57	<0.50	<0.50	<0.50
6/22/2017		7.55			1532.22	0.27	920	<250	---	3.6	<0.50	2.4	2.4
9/20/2017		7.41			1532.36	0.14	350	<250	---	2.5	<0.50	1.3	<0.50
12/7/2017		8.45			1531.32	-1.04	<250	<250	---	0.58	<0.50	<0.50	<0.50
3/19/2018		8.66			1531.11	-0.21	430	<250	---	<0.50	<0.50	<0.50	<0.50
6/22/2018		6.77			1533.00	1.89	420 K	75,000	---	3,800	36,000	680	5,600
9/26/2018		6.76			1533.01	0.01	<250 K	130,000	---	7,200	42,000	4,500	33,000
11/29/2018		9.07			1530.70	-2.31	560 K	47,000	---	3,000	4,400	1,800	9,900
3/20/2019		---			---	---	710 K	110,000	---	7,700	39,000	2,100	19,000
6/11/2019		8.38			1531.39	---	340 K	7,100	---	2,400	1,700	400	1,500
9/22/2019		7.13			1532.64	1.25	340 K	15,000	---	2,300	3,800	350	1,800
11/13/2019		10.61			1529.16	-3.48	320 K	2,300	---	240	<2.5 V	4.8	450
3/25/2020		9.18			1530.59	1.43	420 K	1,600	---	350	6.8	5.2	19
6/23/2020		7.13			1532.64	2.05	<250	2,400	---	440	150	110	170
9/23/2020		6.39			1533.38	0.74	<250	6,400	---	650	870	270	1,600
12/8/2020		8.84			1530.93	-2.45	<250	670	---	10	3.3	<0.50	25
MW-15													
8/19/2014	1538.23	5.50			1532.73	---	600 K	<40,000	---	3,400	210	2,900	12,000
11/17-18/2014		6.80			1531.43	-1.30	---	---	---	---	---	---	---
3/20/2015		7.28	7.22#	0.06	1531.00	-0.43	1,600	15,000	---	630	20	800	2,800
6/17/2015		6.59	6.58	0.01	1531.65	0.65	---	---	---	---	---	---	---
9/24/2015		5.82	5.80	0.02	1532.43	0.78	---	---	---	---	---	---	---
12/8-9/15		7.11	7.08	0.03	1531.14	-1.28	---	---	---	---	---	---	---
3/10/2016		4.20			1534.03	2.89	2,400 K	33,000	---	600	<50 V	4,000	6,800
6/16-17/16		5.71			1532.52	-1.51	560	23,000	---	870	89	2,700	3,300
9/22/2016		5.96			1532.27	-0.25	740 K	20,000	---	830	35	3,600	2,800
11/17/2016		6.54			1531.69	-0.58	280 K	7,200	---	160	<10 V	850	900
3/23/2017		4.88			1533.35	1.66	2,000 K	34,000	---	1,100	12	2,900	3,500
6/22/2017		5.87			1532.36	-0.99	1,100 K	27,000	---	1,000	<15 V	3,000	2,400
9/20/2017		5.65			1532.58	0.22	1,800 K	22,000	---	1,200	<15 V	3,200	1,500
12/7/2017		6.65			1531.58	-1.00	280 K	5,400	---	170	<4.0 V	670	600
3/18/2019		6.86			1531.37	-0.21	880 K	11,000	---	370	12	1,800	2,000
6/21/2018		4.91			1533.32	1.95	760 K	19,000	---	1,100	95	3,100	2,100
9/26/2018		5.07		HC Odor	1533.16	-0.16	800 K	13,000	---	890	130	1,800	1,100
11/28/2018		7.33		HC Odor	1530.90	-2.26	1,000 K	5,900	---	210	5.2	740	460
3/20/2019		5.25			1532.98	2.08	700 K	1,300	---	20	<1.0 V	170	63
6/11/2019		7.00			1531.23	-1.75	610 K	4,500	---	92	4.3	640	240
9/22/2019		5.34		HC Odor	1532.89	1.66	880 K	14,000	---	1,100	32	1,900	790
11/13/2019		8.52		HC Odor	1529.71	-3.18	1,000 K	1,100	---	20	<0.50	110	21
3/24/2020		7.45			1530.78	1.07	3,300 K	5,900	---	220	4.2	500	580
6/23/2020		5.46		HC Odor & Sheen	1532.77	1.99	560 K	9,500	---	810	27	870	400
9/22/2020		4.89			1533.34	0.57	800 K	6,200	---	450	25	490	300
12/8/2020		7.13			1531.10	-2.24	750 K	4,700	---	240	3.3	440	530

**Table 1. Summary of Groundwater Monitoring Data and DRO, GRO, ORO & BTEX Analytical Results
Former Pilot Travel Center #389, 1512 Highway 97, Ellensburg, Kittitas County, Washington**

Well number and date	Top-of-casing elevation in feet above msl	Depth-to-water, feet	Depth-to-product, feet	Product thickness, feet	Water-level elevation, above msl†	Change since last measurement, feet	Concentrations in µg/L						
							DRO	GRO	ORO	Benzene	Toluene	Ethylbenzene	Xylenes
MW-16													
8/19/2014	1537.76	4.84			1532.92	---	<250	<250	---	<0.50	<0.50	<0.50	<0.50
11/17-18/2014		6.12			1531.64	-1.28	<250	<250	---	<0.50	<0.50	<0.50	<0.50
3/20/2015		6.65			1531.11	-0.53	<250	<250	---	<0.50	<0.50	<0.50	<0.50
6/17/2015		5.93			1531.83	0.72	<250	<250	---	<0.50	<0.50	<0.50	<0.50
9/24/2015		5.23			1532.53	0.70	<250	<250	---	<0.50	<0.50	<0.50	<0.50
12/8-9/15		6.48			1531.28	-1.25	<250	<250	---	<0.50	<0.50	<0.50	<0.50
3/10/2016		3.36			1534.40	3.12	<250	<250	---	<0.50	<0.50	<0.50	<0.50
6/16-17/16		5.03			1532.73	-1.67	<250	<250	---	<0.50	<0.50	<0.50	<0.50
9/22/2016		5.27			1532.49	-0.24	<250	<250	---	<0.50	<0.50	<0.50	<0.50
11/16/2016		5.86			1531.90	-0.59	<250	<250	---	<0.50	<0.50	<0.50	<0.50
3/23/2017		4.11			1533.65	1.75	<250	<250	---	<0.50	<0.50	<0.50	<0.50
6/22/2017		5.13			1532.63	-1.02	<250	<250	---	<0.50	<0.50	<0.50	<0.50
9/20/2017		4.92			1532.84	0.21	<250	<250	---	<0.50	<0.50	<0.50	<0.50
12/7/2017		5.91			1531.85	-0.99	<250	<250	---	<0.50	<0.50	<0.50	<0.50
3/18/2018		6.16			1531.60	-0.25	<250	<250	---	<0.50	<0.50	<0.50	<0.50
6/21/2018		4.20			1533.56	1.96	<250	<250	---	<0.50	<0.50	<0.50	<0.50
9/26/2018		4.33			1533.43	-0.13	<250	<250	---	<0.50	<0.50	<0.50	<0.50
11/28/2018		6.63			1531.13	-2.30	<250	<250	---	<0.50	<0.50	<0.50	<0.50
3/20/2019		4.38			1533.38	2.25	<250	<250	---	<0.50	<0.50	<0.50	<0.50
6/11/2019		6.47			1531.29	-2.09	<250	<250	---	<0.50	<0.50	<0.50	<0.50
9/22/2019		4.55			1533.21	1.92	<250	<250	---	<0.50	<0.50	<0.50	<0.50
11/13/2019		7.72			1530.04	-3.17	<250	<250	---	<0.50	<0.50	<0.50	<0.50
3/25/2020		6.73			1531.03	0.99	<250	<250	---	<0.50	<0.50	<0.50	<0.50
6/23/2020		4.75			1533.01	1.98	<250	<250	---	<0.50	<0.50	<0.50	<0.50
9/23/2020		4.22			1533.54	0.53	<250	<250	---	<0.50	<0.50	<0.50	<0.50
12/8/2020		6.47			1531.29	-2.25	<250	<250	---	<0.50	<0.50	<0.50	<0.50
RW-1													
8/19/2014	1539.36	6.50			1532.86	---	<250	740	---	2.9	<0.50	15	42
11/17-18/2014		7.78			1531.58	-1.28	<250	<250	---	4.8	<0.50	3.2	0.71
3/20/2015		8.21			1531.15	-0.43	<250	400	---	19	0.76	2.7	1.9
6/17/2015		7.48			1531.88	0.73	<250	<250	---	13	<0.50	2.0	<0.50
9/24/2015		6.73			1532.63	0.75	<250	<250	---	76	<0.50	<0.50	<0.50
12/8-9/15		7.89			1531.47	-1.16	<250	350	---	69	0.87	30	1.5
3/10/2016		5.21			1534.15	2.68	<250	<250	---	63	<0.50	<0.50	<0.50
6/16-17/16		6.71			1532.65	-1.50	<250	<250	---	<0.50	1.4	<0.50	<0.50
9/22/2016		6.86			1532.50	-0.15	<250	<250	---	110	<1.0 V	<1.0 V	<1.0 V
11/17/2016		7.47			1531.89	-0.61	<250	290	---	150	<1.0 V	<1.0 V	1.1
3/23/2017		5.71			1533.65	1.76	<250	500	---	110	3.8	9.4	1.6
6/22/2017		6.67			1532.69	-0.96	<250	490	---	160	<1.0 V	<1.0 V	11
9/20/2017		6.47			1532.89	0.20	<250	530	---	210	2.2	<1.0 V	1.3
12/7/2017		7.54			1531.82	-1.07	<250	630	---	180	3.0	5.4	2.3
3/19/2018		7.80			1531.56	-0.26	<250	<250	---	35	<0.50	0.81	<0.50
6/22/2018		5.97			1533.39	1.83	<250	<250	---	81	<0.50	<0.50	<0.50
9/26/2018		5.90			1533.46	0.07	<250	<250	---	28	<0.50	<0.50	<0.50
11/29/2018		8.22			1531.14	-2.32	<250	<250	---	28	0.53	<0.50	<0.50
3/20/2019		6.39			1532.97	1.83	<250	<250	---	22	<0.50	0.57	0.56
6/11/2019		7.95			1531.41	-1.56	<250	250	---	130	2.2	1.1	2.2
9/22/2019		6.09			1533.27	1.86	<250	430	---	120	3.0	0.74	1.5
11/13/2019		11.46			1527.90	-5.37	<250	<250	---	19	0.67	<0.50	0.57
3/25/2020		8.37			1530.99	3.09	<250	<250	---	45	<0.50	<0.50	0.54
6/23/2020		6.29	6.27	0.02	1533.09	2.10	<250	<250	---	45	<0.50	<0.50	<0.50
9/23/2020		5.67	5.66	0.01	1533.70	0.61	<250	<250	---	7.2	<0.50	<0.50	<0.50
12/9/2020		8.80			1530.56	-3.14	<250	<250	---	13	<0.50	<0.50	<0.50

**Table 1. Summary of Groundwater Monitoring Data and DRO, GRO, ORO & BTEX Analytical Results
Former Pilot Travel Center #389, 1512 Highway 97, Ellensburg, Kittitas County, Washington**

Well number and date	Top-of-casing elevation in feet above msl	Depth-to-water, feet	Depth-to-product, feet	Product thickness, feet	Water-level elevation, above msl†	Change since last measurement, feet	Concentrations in µg/L							
							DRO	GRO	ORO	Benzene	Toluene	Ethylbenzene	Xylenes	
RW-2														
8/19/2014	1538.21	5.43			1532.78	---	310 K	7,900	---	47	<20 V	530	2,700	
11/17-18/2014		6.69			1531.52	-1.26	260K	6,800	---	49	<4.0 V	380	770	
3/20/2015		7.21			1531.00	-0.52	270	2,400	---	39	<1.5 V	100	210	
6/17/2015		6.51			1531.70	0.70	480 K	4,300	---	250	6.6	260	480	
9/24/2015		5.73			1532.48	0.78	440 K	14,000	---	680	<25 V	970	2,300	
12/8-9/15		7.03			1531.18	-1.30	370 K	2,700	---	110	1.6	210	170	
3/10/2016		4.22			1533.99	2.81	<250	2,200	---	59	11	180	150	
6/16-17/16		5.72			1532.49	-1.50	<250	3,500	---	160	34	380	240	
9/22/2016		5.87			1532.34	-0.15	<250	6,000	---	240	11	960	370	
11/16/2016		6.47			1531.74	-0.60	<250	2,700	---	93	1.6	500	140	
11/16/2016		6.47			1531.74	0.00	<250	2,700	---	93	1.6	500	140	
3/23/2017		5.06			1533.15	1.41	1,500	1,200	---	23	1.5	130	48	
6/22/2017		5.66			1532.55	-0.60	410	2,000	---	59	8.9	130	35	
9/20/2017		5.54			1532.67	0.12	360	1,800	---	43	6.4	90	7.6	
12/7/2017		6.49			1531.72	-0.95	<250	1,100	---	31	1.0	19	2.0	
3/18/2019		6.73			1531.48	-0.24	280 K	1,400	---	44	1.2	36	9.7	
6/21/2018		4.80			1533.41	1.93	360 K	1,200	---	22	29	71	42	
9/26/2018		4.96			1533.25	-0.16	260 K	1,600	---	35	7.6	76	16	
11/28/2018		7.21			1531.00	-2.25	<250	1,100	---	13	0.51	5.4	1.3	
3/20/2019		5.29			1532.92	1.92	<250	780	---	20	<0.50	5.4	1.5	
6/11/2019		6.94			1531.27	-1.65	820 K	8,000	---	64	41	210	110	
9/22/2019		5.17			1533.04	1.77	430 K	1,500	---	17	4.4	13	16	
11/13/2019		8.38			1529.83	-3.21	250 K	850	---	15	<0.50	1.3	1.4	
3/24/2020		7.35			1530.86	1.03	1,000 K	1,300	---	26	0.71	4.7	15	
6/23/2020		5.42		HC Odor & Sheen	1532.79	1.93	1,100 Z	1,300	---	11	1.8	9.4	15	
9/22/2020		4.81	4.80	0.01	1533.41	0.62	520 K	1,500	---	15	4.7	9.4	24	
12/8/2020		7.03		HC Odor	1531.18	-2.23	430 K	880	---	10	0.67	<0.50	2.2	
MTCA Cleanup Levels*:							500	800	500	5.0	1,000	700	1,000	

msl = mean sea level

--- = Not sampled, analyzed or measured.

=Detected Above MTCA Cleanup Levels

<5.0 = Laboratory Reporting Limit exceeds MTCA Cleanup Levels

DRO = Diesel Range Organics by NWTPH-Dx

GRO = Gasoline Range Organics by NWTPH-Gx

ORO = Oil Range Organics by NWTPH-Dx

† If free product is present in well, water-level elevations reflects adjustment for the density of the product (0.75 mg/L for diesel fuel)

*MTCA Cleanup Levels determined by "Table 720-1 Method A Cleanup Levels" set forth in the MTCA Cleanup Regulation, October 12, 2007 (updated July 2015)

¹ Originally Identified as MW-2 on Chain of Custody

² Originally Identified as MW-1 on Chain of Custody

³ Originally Identified as MW-3 on Chain of Custody

^ Sample reanalyzed beyond hold time due to need for further dilution; sample originally analyzed within hold time. Result is from Run #2

K = DRO concentraion may include contributions from lighter-end hydrocarbons that elute in the DRO range

L = DRO concentraion may include contributions from heavier-end hydrocarbons that elute in the DRO range

O = Reporting Limits were increased due to sample foaming

V = Reporting limits were increased due to high concentrations of target analytes

Z = DRO concentration may include contributions from lighter-end and heavier-end hydrocarbons that elute in the DRO range

= Approximation

Table 2. Laboratory Analytical Results for Semivolatile Organics by GC/MS (SIM)
Former Pilot Travel Center #389, 1512 Highway 97, Ellensburg, Kittitas County, Washington

Well ID and Sample Date	Concentrations in µg/L																
	Naphthalene	2-Methylnaphthalene	1-Methylnaphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b,k)fluoranthene, isomeric pair	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenz(a,h)anthracene	Benzo(g,h,i)perylene
MW-1																	
12/16/2010 ¹	560	---	---	<10	19	37	56	<10	<10	1	<10	<10	<20	<10	<10	<10	<10
3/18/2011	70.1 [^]	27.6 [^]	14.7 [^]	<0.94	0.37 ^l	1.4	1.1	<0.94	<0.94	<0.94	<0.094	<0.094	---	<0.094	<0.094	<0.094	<0.094
6/7/2011	158 [^]	93.2	44.9	0.62 ^l	1.7	4.7	6.0	6.3	0.29 ^l	0.83 ^l	0.12	0.12	---	0.062 ^j	0.040 ^j	<0.094	0.1
8/25/2011	164 [^]	40.8 [^]	22.3 [^]	<0.94	0.41 ^l	1.2	0.68 ^l	<0.94	<0.94	<0.94	<0.094	<0.094	---	<0.094	<0.094	<0.094	<0.094
11/16/2011	110* [^]	---	---	0.11	0.36	0.82	0.74	0.07	0.028	0.069	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
3/2/2012	150	---	---	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<4.0	<4.0	<4.0	<4.0
5/9/2012	79	---	---	<1.0	<1.0	1.8	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0
9/22/2012	170	---	---	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<4.0	<4.0	<4.0	<4.0
12/7/2012	81	---	---	<1.0	1.5	2.4	2.8	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	1.0	<1.0
3/7/2013	46	---	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	1.0	<1.0
6/12/2013	72	---	---	0.12	0.41	1.1	1.0	<0.020	0.029	0.092	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
8/27/2013	91	---	---	<0.40	0.63	1.2	0.9	<0.40	<0.40	<0.40	<0.40	<0.40	<0.80	<0.40	<0.40	<0.40	<0.40
12/11/2013	41	17	9.3	<0.40	0.42	0.81	0.60	<0.40	<0.40	<0.40	<0.40	<0.40	<0.80	<0.40	<0.40	<0.40	<0.40
3/25/2014	50*+	19*	11*	0.11	0.28	0.89	0.98	<0.020	0.048	0.11	0.039	0.039	0.056	<0.020	0.041	0.042	0.047
6/16/2014	110**	31+	20+	<0.020	0.57	1.7	0.90	0.061	0.034	0.094	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
8/19/2014	83	24	16	<1.0	<1.0	1.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0
11/17-18/2014	98	29	20	<1.0	<1.0	1.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0
3/20/2015	89	32	25	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<2.0	<2.0	<2.0	<2.0
6/17/2015	100	29	16	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0
9/24/2015	120	28	21	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0
12/8-9/2015	36	11	7.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0
3/10/2016	70	19	13	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<2.0	<2.0	<2.0	<2.0
6/16-17/16	100	34	14	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<2.0	<2.0	<2.0	<2.0
9/22/2016	190	65	22	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<2.0	<2.0	<2.0	<2.0
11/17/2016	160	57	19	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<2.0	<2.0	<2.0	<2.0
3/23/2017	200	57	31	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<2.0	<2.0	<2.0	<2.0
6/22/2017	110	33	15	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<4.0	<4.0	<4.0	<4.0
9/20/2017	280	71	45	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<2.0	<2.0	<2.0	<2.0
12/7/2017	280	72	45	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<4.0	<4.0	<4.0	<4.0
3/19/2018	210	61	35	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<4.0	<4.0	<4.0	<4.0
6/22/2018	110	35	20	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<2.0	<2.0	<2.0	<2.0
9/26/2018	280	75	52	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<4.0	<4.0	<4.0	<4.0
11/29/2018	180	37	33	<10	<10	<10	<10	<10	<10	<10	<10	<10	<20	<10	<10	<10	<10
3/20/2019	0.35	<0.10	0.26	<0.10	0.16	0.18	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10
6/11/2019	220 ^l	71	38	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<2.0	<2.0	<2.0	<2.0
9/22/2019	260	67	46	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<4.0	<4.0	<4.0	<4.0
3/25/2020	200	65	48	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<4.0	<4.0	<4.0	<4.0
6/23/2020	54	17	9.7	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<4.0	<4.0	<4.0	<4.0
9/23/2020	160	36	26	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<4.0	<4.0	<4.0	<4.0
12/9/2020	140	48	30	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<2.0	<2.0	<2.0	<2.0

Table 2. Laboratory Analytical Results for Semivolatile Organics by GC/MS (SIM)
Former Pilot Travel Center #389, 1512 Highway 97, Ellensburg, Kittitas County, Washington

Well ID and Sample Date	Concentrations in µg/L																
	Naphthalene	2-Methylnaphthalene	1-Methylnaphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b&k)fluoranthene, isomeric pair	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenz(a,h)anthracene	Benzo(g,h,i)perylene
MW-3																	
12/16/2010 ²	17	---	---	<0.4	1.3	2.7	2.6	0.45	<0.4	0.45	<0.4	<0.4	<0.80	<0.40	<0.40	<0.40	<0.40
3/18/2011	12.4 [^]	5.2	5.1	<0.94	<0.94	0.70 ^l	<0.94	<0.94	<0.94	<0.94	<0.094	<0.094	---	<0.094	<0.094	<0.094	<0.094
6/7/2011	27.2 [^]	20.3 [^]	13.7 [^]	<0.94	0.61 ^l	1.8	1.1	<0.94	<0.94	<0.94	<0.094	<0.094	---	<0.094	<0.094	<0.094	<0.094
8/25/2011	7.1	4.9	5.2	<0.94	0.31 ^l	1.2	0.55 ^l	<0.94	<0.94	<0.94	<0.094	<0.094	---	<0.094	<0.094	<0.094	<0.094
11/16/2011	11*	---	---	0.082	0.38	0.83	0.72	0.094	0.022	0.062	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
3/8/2012	19	---	---	<1.0	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
5/9/2012	11	---	---	<0.40	<0.40	1.5	0.59	<0.40	<0.40	<0.40	<0.40	<0.40	<0.80	<0.40	<0.40	<0.40	<0.40
9/22/2012	7.4	---	---	<0.20	0.30	1.5	0.58	<0.20	<0.20	<0.20	<0.20	<0.20	<0.40	<0.20	<0.20	<0.20	<0.20
12/7/2012	9.6	---	---	<0.40	0.43	0.94	0.44	<0.40	<0.40	<0.40	<0.40	<0.40	<0.80	<0.40	<0.40	<0.40	<0.40
3/7/2013	13	---	---	<0.20	0.54	1.4	0.44	<0.20	<0.20	<0.20	<0.20	<0.20	<0.40	<0.20	<0.20	<0.20	<0.20
6/12/2013	3.9*	---	---	0.051	0.29	0.92	3.0	<0.020	<0.020	0.037	0.021	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
8/27/2013	5.4	---	---	<0.10	0.42	1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10
12/11/2013	5.1	1.0	2.3	<0.10	0.37	1.0	0.3	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10
3/25/2014	9.9*	1.2	3.6*	0.033	0.27	0.67	0.16	<0.020	<0.020	0.063	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
6/16/2014	4.9+	1.5	2.6+	<0.020	0.31	1.1	0.26	0.052	<0.020	0.055	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
8/19/2014	3.2	0.82	1.9	<0.40	<0.40	0.67	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.80	<0.40	<0.40	<0.40	<0.40
11/17-18/2014	5.5	1.4	2.7	<0.20	0.28	0.70	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.40	<0.20	<0.20	<0.20	<0.20
3/20/2015	4.3	1.3	2.1	<0.20	<0.20	0.55	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.40	<0.20	<0.20	<0.20	<0.20
6/17/2015	7.9	6.1	4.4	<0.20	0.24	0.81	0.40	<0.20	<0.20	<0.20	<0.20	<0.20	<0.40	<0.20	<0.20	<0.20	<0.20
9/24/2015	5.5	3.6	3.4	<0.20	<0.20	0.39	0.28	<0.20	<0.20	<0.20	<0.20	<0.20	<0.40	<0.20	<0.20	<0.20	<0.20
12/8-9/2015	2.7	0.34	0.95	<0.10	0.17	0.32	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10
3/10/2016	15	2.4	3.0	<0.20	<0.20	0.34	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.40	<0.20	<0.20	<0.20	<0.20
6/16-17/16	12	4.2	2.6	<0.20	0.68	0.25	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.40	<0.20	<0.20	<0.20	<0.20
9/22/2016	10	3.3	1.8	<0.20	<0.20	0.50	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.40	<0.20	<0.20	<0.20	<0.20
11/16/2016	30 ⁺	8.3	3.8	<0.20	0.21	0.69	0.30	<0.20	<0.20	<0.20	<0.20	<0.20	<0.40	<0.20	<0.20	<0.20	<0.20
3/23/2017	91	13	11.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<2.0	<2.0	<2.0	<2.0
6/22/2017	36	5	5.4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<2.0	<2.0	<2.0	<2.0
9/20/2017	28	4.7	5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0
12/7/2017	45	9.2	8.5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<2.0	<2.0	<2.0	<2.0
3/18/2018	33	8.7	7.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0
6/21/2018	39	8.2	13	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<2.0	<2.0	<2.0	<2.0
9/26/2018	34	8.1	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0
11/28/2018	4.3	<0.20	2.1	<0.20	0.24	0.42	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.40	<0.20	<0.20	<0.20	<0.20
3/20/2019	0.068	<0.020	<0.020	<0.020	0.030	0.032	<0.020	<0.020	<0.020	0.037	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
6/11/2019	24 ^l	9.6	11	<0.20	0.42	1.1	0.50	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
9/22/2019	16	4.3	6.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0
11/13/2019	6.6	1.8	4.9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0
3/24/2020	10	6.4	8.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0
6/23/2020	16	13	11	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0
9/23/2020	5.5	2.3	5.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0
12/8/2020	7.6	3.9	8.9	<1.0	<1.0	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0

Table 2. Laboratory Analytical Results for Semivolatile Organics by GC/MS (SIM)
Former Pilot Travel Center #389, 1512 Highway 97, Ellensburg, Kittitas County, Washington

Well ID and Sample Date	Concentrations in µg/L																
	Naphthalene	2-Methylnaphthalene	1-Methylnaphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b,k)fluoranthene, isometric pair	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenz(a,h)anthracene	Benzo(g,h,i)perylene
MW-8																	
8/19/2014	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11/17-18/2014	0.083	0.072	0.056	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
3/20/2015	0.080	0.038	0.026	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
6/17/2015	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
9/24/2015	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
12/8-9/2015	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
3/10/2016	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
6/16-17/16	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
9/22/2016	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
11/16/2016	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
3/23/2017	0.280	0.22	0.23	<0.020	<0.020	0.029	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
6/22/2017	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
9/20/2017	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
12/7/2017	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
3/19/2018	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
6/22/2018	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
9/26/2018	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
11/29/2018	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
3/20/2019	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
6/11/2019	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
9/22/2019	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
11/13/2019	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.027	<0.040	<0.020	<0.020	0.021	<0.020
3/25/2020	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.027	<0.040	<0.020	<0.020	0.021	<0.020
6/23/2020	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
9/23/2020	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
12/9/2020	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
MW-9																	
8/19/2014	0.82	0.61	0.59	<0.020	<0.020	0.079	0.049	<0.020	<0.020	0.027	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
11/17-18/2014	18*	7.9*	6.5*	<0.020	0.027	0.15	0.15	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
3/20/2015	260*	190*	85*	<0.40	<0.40	0.59	0.48	<0.40	<0.40	<0.40	<0.40	<0.40	<0.80	<0.40	<0.40	<0.40	<0.40
6/17/2015	87*	59*	27*	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.80	<0.40	<0.40	<0.40	<0.40
9/24/2015	100*	51	37	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0
12/8-9/2015	44	24	13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0
3/10/2016	0.13	0.094	0.055	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
6/16-17/16	20	19	6.1	<0.40	<0.40	<0.40	0.52	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
3/23/2017	0.44	0.035	0.42	<0.20	0.022	0.055	0.042	<0.20	<0.20	<0.20	<0.20	<0.20	<0.40	<0.20	<0.20	<0.20	<0.20
6/22/2017	71	25	37	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<2.0	<2.0	<2.0	<2.0
9/20/2017	62	22	20	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<2.0	<2.0	<2.0	<2.0
12/7/2017	27	16	10	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.80	<0.40	<0.40	<0.40	<0.40
3/19/2018	1.8	<0.40	1.3	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.80	<0.40	<0.40	<0.40	<0.40
6/22/2018	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.40	<0.20	<0.20	<0.20	<0.20
9/26/2018	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
11/29/2018	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
3/20/2019	0.56	0.21	0.10	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
6/11/2019	35	28	15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0
9/22/2019	0.042	0.028	0.024	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
3/25/2020	68	33	25	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0
6/25/2020	1.2	<0.20	1.5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.40	<0.20	<0.20	<0.20	<0.20
9/23/2020	1.9	0.57	1.4	<0.040	<0.040	0.11	0.068	<0.040	<0.040	<0.040	<0.040	<0.040	<0.080	<0.040	<0.040	<0.040	<0.040
12/9/2020	82	49	29	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0

Table 2. Laboratory Analytical Results for Semivolatile Organics by GC/MS (SIM)
Former Pilot Travel Center #389, 1512 Highway 97, Ellensburg, Kittitas County, Washington

Well ID and Sample Date	Concentrations in µg/L																
	Naphthalene	2-Methylnaphthalene	1-Methylnaphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b&k)fluoranthene, isometric pair	Benzo(e)pyrene	Indeno(1,2,3-cd)pyrene	Dibenz(a,h)anthracene	Benzo(g,h,i)perylene
MW-10																	
8/19/2014	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
11/17-18/2014	0.042	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
3/20/2015	0.23	0.058	0.073	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
6/17/2015	0.041	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
9/24/2015	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
12/8-9/2015	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
3/10/2016	4.0	0.14	1.3	<0.020	0.061	0.094	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
6/16-17/16	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
9/22/2016	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
11/16/2016	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
3/23/2017	16	1.5	3.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50
6/22/2017	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
9/20/2017	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
12/7/2017	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
3/19/2018	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
6/22/2018	31	10	5.4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<2.0	<2.0	<2.0	<2.0
9/26/2018	41	7.1	5.7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<2.0	<2.0	<2.0	<2.0
3/20/2019	72	19	10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<2.0	<2.0	<2.0	<2.0
6/11/2019	70	35	22	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0
9/22/2019	4.0	3.5	2.7	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.40	<0.20	<0.20	<0.20	<0.20
11/13/2019	0.27	0.11	0.14	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
3/24/2020	7.0	9.5	5.9	<0.20	<0.20	0.22	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.40	<0.20	<0.20	<0.20	<0.20
6/23/2020	0.39	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.40	<0.20	<0.20	<0.20	<0.20
9/23/2020	5.7	1.3	2.6	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.40	<0.20	<0.20	<0.20	<0.20
12/8/2020	0.11	0.042	0.030	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
MW-11																	
8/19/2014	0.33	<0.020	<0.020	<0.020	0.29	0.20	<0.020	<0.020	<0.020	0.049	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
11/17-18/2014	0.54	0.035	0.14	<0.020	0.17	0.76	0.049	<0.020	<0.020	0.042	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
3/20/2015	<0.040	<0.020	<0.020	<0.020	0.19	0.64	0.093	0.036	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
6/17/2015	2.7*	0.047	0.21	<0.020	0.17	0.54	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
9/24/2015	1.8	<0.10	<0.10	<0.10	0.12	0.24	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10
12/8-9/2015	<0.040	<0.020	<0.020	<0.020	0.094	0.44	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
3/10/2016	<0.080	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.080	<0.040	<0.040	<0.040	<0.040
6/16-17/16	<0.040	<0.020	<0.020	0.024	0.095	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
9/22/2016	0.160	<0.020	<0.020	<0.020	<0.020	0.085	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
11/16/2016	0.22	<0.020	<0.020	<0.020	0.095	0.30	<0.020	<0.020	<0.020	0.021	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
3/23/2017	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
6/22/2017	0.36	0.038	0.08	<0.020	0.032	0.14	<0.020	0.037	<0.020	0.042	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
9/20/2017	0.41	0.11	0.14	<0.020	<0.020	0.12	<0.020	<0.020	<0.020	0.028	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
12/7/2017	0.35	<0.020	<0.020	<0.020	0.13	0.46	<0.020	<0.020	<0.020	0.033	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
3/19/2018	0.38	<0.020	<0.020	<0.020	0.093	0.42	<0.020	<0.020	<0.020	0.028	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
6/22/2018	72	13	5.3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<2.0	<2.0	<2.0	<2.0
9/26/2018	120	19	15	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<2.0	<2.0	<2.0	<2.0
11/29/2018	51	9.1	4.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0
3/20/2019	65	11	8.5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<2.0	<2.0	<2.0	<2.0
6/11/2019	7.9	1.5	1.4	<0.20	<0.20	0.32	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.40	<0.20	<0.20	<0.20	<0.20
9/22/2019	14.0	2.4	3.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50
11/13/2019	0.38	<0.10	0.24	<0.10	<0.10	0.13	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10
3/25/2020	2.5	<0.50	0.85	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50
6/23/2020	2.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50
9/23/2020	6.1	1.3	1.4	<0.10	<0.10	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.20	<0.10	<0.10
12/8/2020	2.1	0.32	0.58	<0.10	0.12	0.26	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.20	<0.10	<0.10

Table 2. Laboratory Analytical Results for Semivolatile Organics by GC/MS (SIM)
Former Pilot Travel Center #389, 1512 Highway 97, Ellensburg, Kittitas County, Washington

Well ID and Sample Date	Concentrations in µg/L																
	Naphthalene	2-Methylnaphthalene	1-Methylnaphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b,k)fluoranthene, isomeric pair	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenz(a,h)anthracene	Benzo(g,h,i)perylene
MW-15																	
8/19/2014	320*	84*	50*	<0.020	0.56	1.8	1.3	0.050	0.030	0.079	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
11/17-18/2014	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3/20/2015	49	13	13	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<2.0	<2.0	<2.0	<2.0
6/17/2015	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
9/24/2015	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12/8-9/2015	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3/10/2016	190	63	38	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<4.0	<4.0	<4.0	<4.0
6/16-17/16	160	64	25	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<4.0	<4.0	<4.0	<4.0
9/22/2016	200	100	34	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<4.0	<4.0	<4.0	<4.0
11/17/2016	60	36	12	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<4.0	<4.0	<4.0	<4.0
3/23/2017	440	190	88	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0
6/22/2017	430	210	77	<10	<10	<10	<10	<10	<10	<10	<10	<10	<20	<10	<10	<10	<10
9/20/2017	560	190	130	<10	<10	<10	<10	<10	<10	<10	<10	<10	<20	<10	<10	<10	<10
12/7/2017	120	44	27	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0
3/18/2018	160	58	34	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<4.0	<4.0	<4.0	<4.0
6/21/2018	220	63	56	<2.0	<2.0	2.7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<2.0	<2.0	<2.0	<2.0
9/26/2018	190	72	21	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<4.0	<4.0	<4.0	<4.0
11/28/2018	30	6.5	6.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0
3/20/2019	1.3	0.059	0.91	<0.020	0.11	0.29	<0.020	<0.020	0.024	0.090	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
6/11/2019	65	15	22	<1.0	<1.0	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0
9/22/2019	250	50	41	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<4.0	<4.0	<4.0	<4.0
11/13/2019	7.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<2.0	<2.0	<2.0	<2.0
3/24/2020	76	27	25	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<4.0	<4.0	<4.0	<4.0
6/23/2020	200	70	37	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<4.0	<4.0	<4.0	<4.0
9/22/2020	170	40	35	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.0	<4.0	<4.0	<4.0	<4.0
12/8/2020	79	32	23	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<16	<8.0	<8.0	<8.0	<8.0
MW-16																	
8/19/2014	0.096	0.029	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
11/17-18/2014	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
3/20/2015	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
6/17/2015	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
9/24/2015	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
12/8-9/2015	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
3/10/2016	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
6/16-17/16	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
9/22/2016	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
11/16/2016	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
3/23/2016	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
6/22/2016	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
9/20/2017	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
12/7/2017	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
3/18/2018	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
6/21/2018	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
9/26/2018	1.2	0.19	0.17	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
11/28/2018	0.2	0.062	0.056	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
3/20/2019	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
6/11/2019	0.47	0.11	0.16	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
9/22/2019	0.15	0.030	0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.022	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
11/13/2019	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
3/25/2020	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
6/23/2020	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
9/23/2020	0.11	0.031	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
12/8/2020	<0.040	0.023	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020

Table 2. Laboratory Analytical Results for Semivolatile Organics by GC/MS (SIM)
Former Pilot Travel Center #389, 1512 Highway 97, Ellensburg, Kittitas County, Washington

Well ID and Sample Date	Concentrations in µg/L																
	Naphthalene	2-Methylnaphthalene	1-Methylnaphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b,k)fluoranthene, isomeric pair	Benzo(e)pyrene	Indeno(1,2,3-cd)pyrene	Dibenz(a,h)anthracene	Benzo(g,h,i)perylene
RW-1																	
8/19/2014	4.4	3.7	2	<0.10	<0.10	0.25	0.18	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10
11/17-18/2014	1.6	0.61	0.45	<0.020	<0.020	0.12	0.11	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
3/20/2015	2.2	0.37	0.54	<0.040	0.063	0.13	0.14	<0.040	<0.040	<0.040	<0.040	<0.040	<0.080	<0.040	<0.040	<0.040	<0.040
6/17/2015	0.64	0.044	0.29	<0.040	<0.040	0.097	0.069	<0.040	<0.040	<0.040	<0.040	<0.040	<0.080	<0.040	<0.040	<0.040	<0.040
9/24/2015	<0.040	<0.020	0.24	<0.020	0.025	0.055	0.038	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
12/8-9/2015	0.51	0.052	0.30	<0.020	<0.020	0.057	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
3/10/2016	<0.040	<0.020	0.052	<0.020	<0.020	0.036	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
6/16-17/16	<0.040	<0.020	0.053	<0.020	<0.020	0.021	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
9/22/2016	0.1	<0.020	0.063	<0.020	<0.020	0.042	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
11/17/2016	0.071	<0.020	0.032	<0.020	<0.020	0.030	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
3/23/2017	<0.040	<0.020	0.036	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
6/22/2017	0.36	0.042	0.36	<0.020	0.031	0.074	0.027	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
9/20/2017	0.71	0.073	0.51	<0.020	0.036	0.088	0.022	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
12/7/2017	0.96	0.12	0.73	<0.020	0.029	0.077	0.021	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
3/19/2018	0.14	<0.020	0.12	<0.020	<0.020	0.034	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
6/22/2018	0.10	<0.020	0.081	<0.020	<0.020	0.022	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
9/26/2018	0.047	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
11/29/2018	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
3/20/2019	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
6/11/2019	0.13	<0.020	0.16	<0.020	0.022	0.059	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
9/22/2019	0.38	<0.020	0.28	<0.020	0.026	0.043	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
11/13/2019	0.089	0.021	0.22	<0.020	0.026	0.062	0.031	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
3/25/2020	0.18	<0.020	0.090	<0.020	0.031	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
6/23/2020	0.10	<0.020	0.072	<0.020	0.025	0.030	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
9/22/2020	0.044	<0.020	<0.020	<0.020	<0.020	0.029	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
12/9/2020	0.11	0.020	0.077	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
RW-2																	
8/19/2014	55*	26*	15*	<0.020	0.30	1.0	0.58	<0.020	<0.020	0.047	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020
11/17-18/2014	48	14	13	<0.40	0.45	0.64	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.80	<0.40	<0.40	<0.40	<0.40
3/20/2015	20	7.5	5.8	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50
6/17/2015	28	9.2	5.7	<0.50	<0.50	0.52	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50
9/24/2015	110*	29	17	<0.50	<0.50	0.53	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50
12/8-9/2015	18	5.2	4.8	<0.20	<0.20	<0.20	0.22	<0.20	<0.20	<0.20	<0.20	<0.20	<0.40	<0.20	<0.20	<0.20	<0.20
3/10/2016	14	3.8	3.7	<0.20	<0.20	0.37	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.40	<0.20	<0.20	<0.20	<0.20
6/16-17/16	13	3.2	2.7	<0.20	<0.20	0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.40	<0.20	<0.20	<0.20	<0.20
9/22/2016	52*	23*	12	<0.20	0.280	0.64	0.320	<0.20	<0.20	<0.20	<0.20	<0.20	<0.40	<0.20	<0.20	<0.20	<0.20
11/16/2016	31	5.4	6.8	<0.20	0.26	0.47	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.40	<0.20	<0.20	<0.20	<0.20
3/23/2017	20	8.4	5.9	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50
6/22/2017	21	4.1	7.4	<0.50	<0.50	0.63	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50
9/20/2017	24	9.6	11	<0.50	<0.50	0.80	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50
12/7/2017	18	4.4	6.4	<0.50	<0.50	0.56	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50
3/18/2018	29	10	9.0	<0.50	<0.50	0.59	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50
6/21/2018	0.42	<0.020	0.40	<0.020	0.19	0.29	<0.020	<0.020	<0.020	0.044	<0.020	0.035	0.065	<0.020	<0.020	<0.020	<0.020
9/26/2018	1.5	0.048	1.00	<0.020	0.16	0.23	<0.020	<0.020	<0.020	0.030	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
11/28/2018	3	0.13	2.60	<0.10	0.12	0.23	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10
3/20/2019	0.17	<0.020	0.18	<0.020	0.088	0.19	<0.020	<0.020	<0.020	0.032	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020
6/11/2019	23	8.4	7.8	<0.40	<0.40	0.42	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.80	<0.40	<0.40	<0.40	<0.40
9/22/2019	13	5.0	6.8	<0.50	<0.50	0.53	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50
11/13/2019	4.4	0.91	2.8	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50
3/24/2020	8.2	3.9	4.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50
6/23/2020	5.7	0.99	4.1	<0.50	<0.50	0.64	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50
9/22/2020	0.52	<0.040	<0.040	<0.040	0.059	<0.040	<0.040	0.041	<0.040	0.052	<0.040	<0.040	<0.080	<0.040	<0.040	<0.040	<0.040
12/8/2020	1.8	0.61	3.1	<0.20	0.26	0.53	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.40	<0.20	<0.20	<0.20	<0.20
MTCA Cleanup Levels [#]	160									0.1**							

--- = Not sampled or analyzed.

=Sum of carcinogenic PAHs above total concentration MTCA Cleanup Level for all detected PAHs, per toxicity equivalency methodology in WAC 173-340-708(8)

=Individual constituent detected above MTCA Cleanup Levels

<0.1 = Laboratory Reporting Limit exceeds MTCA Cleanup Levels

¹ Originally Identified as MW-2 on Chain of Custody

² Originally Identified as MW-1 on Chain of Custody

³ Originally Identified as MW-3 on Chain of Custody

^ Result is from Run #2

^ Estimated value

* Analyte was analyzed in a separate batch to be within its calibration, while achieving the lowest possible reporting limits for the other compounds.

MTCA Cleanup Levels determined by "Table 720-1 Method A Cleanup Levels" set forth in the MTCA Cleanup Regulation, October 12, 2007 (updated July 2015)

** MTCA Cleanup Level for sum of carcinogenic PAHs

**Table 3. Magnitude and Direction of Groundwater Gradient
Former Pilot Travel Center #389, 1512 Highway 97
Ellensburg, Kittitas County, Washington**

Date	Approximate flow direction	Approximate hydraulic gradient (ft/ft)
3/18/2011	South	0.003
6/7/2011	Southwest	0.003
8/25/2011	South	0.003
11/16/2011	South	0.003
3/8/2012	Southwest	0.003
5/9/2012	South	0.004
9/22/2012	South-Southwest	0.004
12/7/2012	South-Southwest	0.004
3/7/2013	South-Southwest	0.003
6/12/2013	South-Southwest	0.004
8/27/2013	South-Southwest	0.003
12/11/2013	South-Southwest	0.002
3/25/2014	South-Southwest	0.003
6/16/2014	South-Southwest	0.003
8/19/2014	South-Southwest	0.004
11/17-18/2014	South-Southwest	0.004
3/20/2015	South	0.004
6/17/2015	South	0.005
9/24/2015	South	0.003
12/8-9/2015	South-Southwest	0.004
3/10/2016	South-Southwest	0.007
6/16-17/2016	South-Southwest	0.023
9/22/2016	South-Southwest	0.004
11/16-17/2016	South-Southwest	0.004
3/23/2017	South-Southwest	0.008
6/22/2017	South-Southwest	0.005
9/20/2017	South-Southwest	0.005
12/7/2017	South-Southwest	0.005
3/18-3/19/2018	South-Southwest	0.005
6/21-6/22/2018	Southwest	0.002
9/26/2018	South	0.002
11/29/2018	South	0.004
3/20/2019	South	0.005
6/11/2019	South-Southwest	0.006
11/13/2019	Southwest	0.003
3/24/2020	South-Southwest	0.004
6/23/2020	South	0.003
9/22-23/2020	South-Southeast	0.001
12/8-9/2020	South	0.003

APPENDIX A

FIELD METHODS



QUALITY ASSURANCE/QUALITY CONTROL FIELD METHODS

Field methods discussed herein were implemented to provide for accuracy and reliability of field activities, data collection, sample collection, and handling. Discussion of these methods is provided below.

1.0 EQUIPMENT CALIBRATION

Equipment calibration was performed per equipment manufacturer specifications before use.

2.0 DEPTH TO GROUNDWATER AND LIGHT NON-AQUEOUS PHASE LIQUID MEASUREMENT

Depth to groundwater was measured in wells identified for gauging in the scope of work using a decontaminated water level indicator. The depth to water measurement was taken from a cut notch or permanent mark at the top of the well casing to which the well head elevation was originally surveyed.

Once depth to water was measured, an oil/water interface meter or a new disposable bailer was utilized to evaluate the presence and, if present, to measure the "apparent" thickness of light non-aqueous phase liquid (LNAPL) in the well. If LNAPL was present in the well, groundwater purging and sampling were not performed, unless sampling procedures in the scope of work specified collection of samples in the presence of LNAPL. Otherwise, time allowing, LNAPL was bailed from the well using either a new disposable bailer, or the disposal bailer previously used for initial LNAPL assessment. Bailing of LNAPL continued until the thickness of LNAPL (or volume) stabilized in each bailer pulled from the well, or LNAPL was no longer present. After LNAPL thickness either stabilized or was eliminated, periodic depth to water and depth to LNAPL measurements were collected as product came back into the well to evaluate product recovery rate and to aid in further assessment of LNAPL in the subsurface. LNAPL thickness measurements were recorded as "apparent." If a bailer was used for LNAPL thickness measurement, the field sampler noted the bailer entry diameter and chamber diameter to enable correction of thickness measurements. Recovered LNAPL was stored on-site in a labeled steel drum(s) or other appropriate container(s) prior to disposal.

3.0 WELL PURGING AND GROUNDWATER SAMPLE COLLECTION

Well purging and groundwater sampling were performed in wells specified in the scope of work after measuring depth to groundwater and evaluating the presence of LNAPL. Purging and sampling were performed using one of the methods detailed below. The method used was noted in the field records. Purge water was stored on-site in labeled steel drum(s) or other appropriate container(s) prior to disposal or on-site treatment (in cases where treatment using an on-site system is authorized).

3.1 Purging a Predetermined Well Volume

Purging a predetermined well volume is performed per ASTM International (ASTM) D4448-01. This purging method has the objective of removing a predetermined volume of stagnant water from the well prior to sampling. The volume of stagnant water is defined as either the volume of water contained within the well casing, or the volume within the well casing and sand/gravel in the annulus if natural flow through these is deemed insufficient to keep them flushed out.

This purging method involves removal of a minimum of three stagnant water volumes from the well using a decontaminated pump with new disposable plastic discharge or suction tubing, dedicated well tubing, or using a new disposable or decontaminated reusable bailer. If a new disposable bailer was used for assessment of LNAPL, that bailer may be used for purging. The withdrawal rate used is one that minimizes drawdown while satisfying time constraints.

To evaluate when purging is complete, one or more groundwater stabilization parameters are monitored and recorded during purging activities until stabilization is achieved. Most commonly, stabilization parameters include temperature, conductivity, and pH, but field procedures detailed in the scope of work may also include monitoring of dissolved oxygen concentrations, oxidation reduction potential, and/or turbidity¹. Parameters are considered stable when two (2) consecutive readings recorded three (3) minutes apart fall within ranges provided below in Table 1. In the event that the parameters have not stabilized and five (5) well casing volumes have been removed, purging activities will cease and be considered complete. Once the well is purged, a groundwater sample(s) is collected from the well using a new disposable bailer. If a new disposable bailer was used for purging, that bailer may be used to collect the sample(s). A sample is not collected if the well is inadvertently purged dry.

Table 1. Criteria for Defining Stabilization of Water-Quality Indicator Parameters

Parameter	Stabilization Criterion
Temperature	± 0.2°C (± 0.36°F)
pH	± 0.1 standard units
Conductivity	± 3%
Dissolved oxygen	± 10%
Oxidation reduction potential	± 10 mV
Turbidity ¹	± 10% or 1.0 NTU (whichever is greater)

3.2 Low-Flow Purging and Sampling

“Low-Flow”, “Minimal Drawdown”, or “Low-Stress” purging is performed per ASTM D6771-02. It is a method of groundwater removal from within a well’s screened interval that is intended to minimize drawdown and mixing of the water column in the well

¹ As stated in ASTM D6771-02, turbidity is not a chemical parameter and not indicative of when formation-quality water is being purged; however, turbidity may be helpful in evaluating stress on the formation during purging. Turbidity measurements are taken at the same time that stabilization parameter measurements are made, or, at a minimum, once when purging is initiated and again just prior to sample collection, after stabilization parameters have stabilized. To avoid artifacts in sample analysis, turbidity should be as low as possible when samples are collected. If turbidity values are persistently high, the withdrawal rate is lowered until turbidity decreases. If high turbidity persists even after lowering the withdrawal rate, the purging is stopped for a period of time until turbidity settles, and the purging process is then restarted. If this fails to solve the problem, the purging/sampling process for the well is ceased, and well maintenance or redevelopment is considered.

casing. This is accomplished by pumping the well using a decontaminated pump with new disposable plastic discharge or suction tubing or dedicated well tubing at a low flow rate while evaluating the groundwater elevation during pumping.

The low flow pumping rate is well specific and is generally established at a volume that is less than or equal to the natural recovery rate of the well. A pump with adjustable flow rate control is positioned with the intake at or near the mid-point of the submerged well screen. The pumping rate used during low-flow purging is low enough to minimize mobilization of particulate matter and drawdown (stress) of the water column. Low-flow purging rates will vary based on the individual well characteristics; however, the purge rate should not exceed 1.0 Liter per minute (L/min) or 0.25 gallon per minute (gal/min). Low-flow purging should begin at a rate of approximately 0.1 L/min (0.03 gal/min)², or the lowest rate possible, and be adjusted based on an evaluation of drawdown. Water level measurements should be recorded at approximate one (1) to two (2) minute intervals until the low-flow rate has been established, and drawdown is minimized. As a general rule, drawdown should not exceed 25% of the distance between the top of the water column and the pump in-take.

To evaluate when purging is complete, one or more groundwater stabilization parameters are monitored and recorded during purging activities until stabilization is achieved. Most commonly, stabilization parameters include temperature, conductivity, and pH, but field procedures detailed in the scope of work may also include monitoring of dissolved oxygen concentrations, oxidation reduction potential, and/or turbidity¹. The frequency between measurements will be at an interval of one (1) to three (3) minutes; however, if a flow cell is used, the frequency will be determined based on the time required to evacuate one cell volume. Stabilization is defined as three (3) consecutive readings recorded several minutes apart falling within ranges provided in Table 1. Samples will be collected by filling appropriate containers from the pump discharge tubing at a rate not to exceed the established pumping rate.

3.3 Minimal Purge, Discrete Depth, and Passive Sampling

In accordance with ASTM D4448-01, sampling techniques that do not rely on purging, or require only minimal purging, may be used if a particular zone within a screened interval is to be sampled or if a well is not capable of yielding sufficient groundwater for purging. To properly use these sampling techniques, a water sample is collected within the screened interval with little or no mixing of the water column within the casing. These techniques include minimal purge sampling which uses a dedicated sampling pump capable of pumping rates of less than 0.1 L/min (0.03 gal/min)², discrete depth sampling using a bailer that allows groundwater entry at a controlled depth (e.g. differential pressure bailer), or passive (diffusion) sampling. These techniques are based on certain studies referenced in ASTM D4448-01 that indicate that under certain conditions, natural groundwater flow is laminar and horizontal with little or no mixing within the well screen.

² According to ASTM D4448-01, studies have indicated that at flow rates of 0.1 L/min, low-density polyethylene (LDPE) and plasticized polypropylene tubing materials are prone to sorption. Therefore, TFE-fluorocarbon or other appropriate tubing material is used, particularly when tubing lengths of 50 feet or longer are used.

4.0 DECONTAMINATION

Reusable groundwater sampling equipment were cleaned using a solution of Alconox or other acceptable detergent, rinsed with tap water, and finally rinsed with distilled water prior to use in each well. Decontamination water was stored on-site in labeled steel drum(s) or other appropriate container(s) prior to disposal.

5.0 SAMPLE CONTAINERS, LABELING, AND STORAGE

Samples were collected in laboratory prepared containers with appropriate preservative (if preservative was required). Samples were labeled (site name, sample I.D., sampler initials, date, and time of collection) and stored chilled (refrigerator or ice chest with ice) until delivery to a certified laboratory, under chain of custody procedures.

6.0 CHAIN OF CUSTODY RECORD AND PROCEDURE

The field sampler was personally responsible for care and custody of the samples collected until they were properly transferred to another party. To document custody and transfer of samples, a Chain of Custody Record was prepared. The Chain of Custody Record provided identification of the samples corresponding to sample labels and specified analyses to be performed by the laboratory. The original Chain of Custody Record accompanied the shipment, and a copy of the record was stored in the project file. When the samples were transferred, the individuals relinquishing and receiving them signed, dated, and noted the time of transfer on the record.

7.0 FIELD RECORDS

Daily Report and data forms were completed by staff personnel to provide daily record of significant events, observations, and measurements. Field records were signed, dated, and stored in the project file.

APPENDIX B

FIELD DATA SHEETS



DAILY REPORT

Project: 10-08-102 (PTC-389) Project No.: PTC-389 (10-08-102)
 Field Representative(s): J. Ormerod Day: Tuesday, Wed. Date: 12/8/20 + 12/9/20
 Time Onsite: From: _____ To: _____; From: _____ To: _____; From: _____ To: _____

- Signed HASP Safety Glasses Hard Hat Steel Toe Boots
- UST Emergency System Shut-off Switches Located Proper Gloves Safety Vest
- Proper Level of Barricading Other PPE (Describe): _____

Weather: low 40's, overcast
 Equipment in Use: Horiba flow cell, Peri pump
 Visitors: na

TIME:	WORK DESCRIPTION:
--------------	--------------------------

<u>14:00</u>	<u>Arrive onsite alert manager of GWM</u>
<u>14:15</u>	<u>set up on Mh-15, calibrate Horiba flow cell</u>
	<u>DTW: 7.13 7.13 TD: 13.39 sampled @ 15:00</u>
<u>15:30</u>	<u>set up on RW-2 DTW: 7.03 TD: 20.52 sampled at 15:51</u>
<u>16:20</u>	<u>set up on MW-3 DTW: 7.61 TD: 13.60 sampled at 16:40</u>
<u>17:00</u>	<u>set up on MW-16 DTW: 6.47 TD: 13.55 sampled @ 17:50</u>
<u>17:55</u>	<u>set up on MW-10 DTW: 8.64 TD: 13.64 sampled @ 18:21</u>
<u>18:40</u>	<u>set up on MW-11 DTW: 8.84 TD: 13.85 sampled @ 19:05</u>
<u>19:45</u>	<u>Broadbent offsite</u>
<u>12/9 0745</u>	<u>set up on MW-7, equip gear and fill decom buckets</u>
	<u>DTW: 8.90 TD: 13.15 sampled @ 0830</u>
<u>0900</u>	<u>set up on MW-8 DTW: 7.83 TD: 13.95 sampled @ 0930</u>
<u>0945</u>	<u>set up on MW-1 DTW: 7.51 TD: 12.84 sampled @ 1006</u>
<u>1030</u>	<u>set up on MW-9 DTW: 7.70 TD: 13.65 ^{seen} sampled @ 1044</u>
<u>1105</u>	<u>set up on RW-1 DTW: 8.80 TD: 19.05 sampled @ 11:20</u>
<u>12:00</u>	<u>Empty decom buckets, pack truck, Broadbent offsite</u>
	<u>inspected MW-6, full of dirt. inaccessible.</u>

Signature:



GROUNDWATER MONITORING SITE SHEET

Page _____ of _____

Project: 10-08-102 (PTC -389)

Project No.: 10-08-102 Date: 12/8, 12/9/2020

Field Representative(s): J. O'Connell

Elevation: _____

Formation recharge rate is historically: High Low (circle one)

W. L. Indicator ID #: _____ Oil/Water Interface ID #: _____ (list #s of all equip used)

WELL ID RECORD						WELL GAUGING RECORD					LAB ANALYSES		
Well ID	Well Sampling Order	As-Built Well Diam. (in)	As-Built Well Screen Interval (ft)	Previous Depth to Water (ft)	Previous Total Depth (ft)	Time (24:00)	Depth to LNAPL (ft)	Apparent LNAPL Thickness (ft)*	Depth to Water (ft)	Well Total Depth (ft)			
Mw-1				6.10	12.85				7.51	12.84			
Mw-3				5.31	13.61				7.61	13.60			
Mw-7				6.12	13.67				8.90	13.15			
Mw-8				5.41	13.93				7.85	13.95			
Mw-9				5.47	13.64				7.70	13.65			
Mw-10				6.89	13.67				8.64	13.64			
Mw-11				6.39	13.86				8.84	13.85			
Mw-15				4.89	13.80				7.13	13.39			
Mw-16				4.22	13.53				6.47	13.53			
Rw-1				5.67	19.31				8.86	19.05			
Rw-2				4.81	20.79				7.03	20.52			

* Device used to measure LNAPL thickness: Bailer Oil/Water Interface Meter (circle one)
 If Bailer used, note bailer dimensions (in): Entry Diameter: _____ Chamber Diameter: _____

Signature: [Handwritten Signature]



GROUNDWATER SAMPLING DATA SHEET

Page of

Project: ptc 389 Project No.: 10-08-102 Date: 12/9/2020
 Field Representative: J. Ormerod
 Well ID: MW-1 Start Time: End Time: Total Time (minutes):

PURGE EQUIPMENT		<input type="checkbox"/> Disp. Bailer	<input type="checkbox"/> 120V Pump	<input type="checkbox"/> Flow Cell
<input checked="" type="checkbox"/> Disp. Tubing	<input type="checkbox"/> 12V Pump	<input type="checkbox"/> Peristaltic Pump	Other/ID#: <u> </u>	
WELL HEAD INTEGRITY (cap, lock, vault, etc.)		Comments: <u> </u>		
<input checked="" type="checkbox"/> Good	<input type="checkbox"/> Improvement Needed	(circle one)		
PURGING/SAMPLING METHOD		<input checked="" type="checkbox"/> Predetermined Well Volume	<input checked="" type="checkbox"/> Low-Flow	<input type="checkbox"/> Other: <u> </u>
PREDETERMINED WELL VOLUME		LOW-FLOW		
Casing Diameter Unit Volume (gal/ft) (circle one)		Previous Low-Flow Purge Rate: <u> </u> (lpm)		
1" (0.04)	1.25" (0.08)	<u>2" (0.17)</u>	3" (0.38)	Other: <u> </u>
4" (0.66)	6" (1.50)	8" (2.60)	12" (5.81)	" ()
Total Well Depth (a): <u> </u> (ft)		Initial Depth to Water (b): <u>12.87</u> (ft)		
Initial Depth to Water (b): <u> </u> (ft)		Total Well Depth (a): <u> </u> (ft)		
Water Column Height (WCH) = (a - b): <u>5.36</u> (ft)		Initial Depth to Water (b): <u>7.51</u> (ft)		
Water Column Volume (WCV) = WCH x Unit Volume: <u> </u> (gal)		Pump In-take Depth = b + (a-b)/2: <u>10.19</u> (ft)		
Three Casing Volumes = WCV x 3: <u> </u> (gal)		Maximum Allowable Drawdown = (a-b)/8: <u>0.67</u> (ft)		
Five Casing Volumes = WCV x 5: <u> </u> (gal)		Low-Flow Purge Rate: <u> </u> (gpm)*		
Pump Depth (if pump used): <u> </u> (ft)		Comments: <u> </u>		

GROUNDWATER STABILIZATION PARAMETER RECORD								NOTES
Time (24:00)	Cumulative Vol. gal or L	Temperature °C or °F	pH	ORP mV	Conductivity µS or mS	Turbidity NTU	DO mg/L	Odor, color, sheen or other
1002	0	56.3	6.58	-10	2.76	227	10.29	
1004	1/8	56.7	6.53	-18	2.55	223	9.39	
1008	1/4	57.0	6.50	-18	2.40	203	9.30	water is brownish color w/ sediment suspended
<p>Replaced</p> <p>* flipped soakase</p>								

Previous Stabilized Parameters

PURGE COMPLETION RECORD Low Flow & Parameters Stable 3 Casing Volumes & Parameters Stable 5 Casing Volumes

Other:

SAMPLE COLLECTION RECORD		GEOCHEMICAL PARAMETERS		
Parameter	Time	Measurement		
Depth to Water at Sampling: <u>7.51</u> (ft)				
Sample Collected Via: <input checked="" type="checkbox"/> Disp. Pump Tubing <input type="checkbox"/> Dedicated Pump Tubing		DO (mg/L)		
<input checked="" type="checkbox"/> Disp. Pump Tubing <input type="checkbox"/> Other: <u> </u>		Ferrous Iron (mg/L)		
Sample ID: <u>MW-1</u> Sample Collection Time: <u>1006</u> (24:00)		Redox Potential (mV)		
Containers (#): <u>6</u> VOA (<input checked="" type="checkbox"/> preserved or <input type="checkbox"/> unpreserved) <u>2</u> Liter Amber		Alkalinity (mg/L)		
Other: <u> </u>		Other: <u> </u>		
Other: <u> </u>		Other: <u> </u>		

Signature: J. Ormerod



GROUNDWATER SAMPLING DATA SHEET

Page ___ of ___

Project: PTZ 389 Project No.: 10-88-12 Date: 12/9/20
 Field Representative: _____
 Well ID: MW-9 Start Time: _____ End Time: _____ Total Time (minutes): _____

PURGE EQUIPMENT Disp. Bailer 120V Pump Flow Cell
 Disp. Tubing 12V Pump Peristaltic Pump Other/ID#: _____

WELL HEAD INTEGRITY (cap, lock, vault, etc.) Comments: _____
 Good Improvement Needed (circle one)

PURGING/SAMPLING METHOD Predetermined Well Volume Low-Flow Other: _____ (circle one)

PREDETERMINED WELL VOLUME					LOW-FLOW	
Casing Diameter Unit Volume (gal/ft) (circle one)						Previous Low-Flow Purge Rate: _____ (lpm)
1" (0.04)	1.25" (0.08)	<u>2" (0.17)</u>	3" (0.38)	Other: _____		Total Well Depth (a): <u>13.65</u> (ft)
4" (0.66)	6" (1.50)	8" (2.60)	12" (5.81)	" ()		Initial Depth to Water (b): <u>7.70</u> (ft)
Total Well Depth (a): _____ (ft)						Pump In-take Depth = b + (a-b)/2: <u>10.675</u> (ft)
Initial Depth to Water (b): _____ (ft)					Maximum Allowable Drawdown = (a-b)/8: <u>0.743</u> (ft)	Low-Flow Purge Rate: _____ (gpm)*
Water Column Height (WCH) = (a - b): <u>5.95</u> (ft)					Comments: _____	
Water Column Volume (WCV) = WCH x Unit Volume: _____ (gal)					*Low-flow purge rate should be within range of instruments used but should not exceed 0.25 gpm. Drawdown should not exceed Maximum Allowable Drawdown.	
Three Casing Volumes = WCV x 3: _____ (gal)						
Five Casing Volumes = WCV x 5: _____ (gal)						
Pump Depth (if pump used): _____ (ft)						

GROUNDWATER STABILIZATION PARAMETER RECORD

Time (24:00)	Cumulative Vol. gal or L	Temperature °C or °F	pH	ORP mV	Conductivity µS or mS	Turbidity NTU	DO mg/L	NOTES Odor, color, sheen or other
1039	0	54.7	6.30	-39	0.491	8.0	10.25	sheen
1041	1/8	55.0	6.36	-1	0.456	0.0	9.72	
1043	1/4	55.1	6.38	4	0.447	0.0	7.54	
* Flipped solenoid								

Previous Stabilized Parameters _____
 PURGE COMPLETION RECORD Low Flow & Parameters Stable 3 Casing Volumes & Parameters Stable 5 Casing Volumes
 Other: _____

SAMPLE COLLECTION RECORD		GEOCHEMICAL PARAMETERS		
Depth to Water at Sampling: <u>7.70</u> (ft)		Parameter	Time	Measurement
Sample Collected Via: <input type="checkbox"/> Disp. Bailer <input type="checkbox"/> Dedicated Pump Tubing		DO (mg/L)		
<input checked="" type="checkbox"/> Disp. Pump Tubing <input type="checkbox"/> Other: _____		Ferrous Iron (ng/L)		
Sample ID: <u>MW-9</u>	Sample Collection Time: <u>1044</u> (24:00)	Redox Potential (mV)		
Containers (#): <u>6</u> VOA (<input checked="" type="checkbox"/> preserved or <input type="checkbox"/> unpreserved) <u>2</u> Liter Amber		Alkalinity (mg/L)		
Other: _____	Other: _____	Other: _____		
Other: _____	Other: _____	Other: _____		

Signature: [Handwritten Signature]



GROUNDWATER SAMPLING DATA SHEET

Page 1 of 1

Project: PTC-389 Project No.: 10-08-102 Date: 12/08/2020
 Field Representative: J. Ormerod
 Well ID: MW-10 Start Time: _____ End Time: _____ Total Time (minutes): _____

PURGE EQUIPMENT Disp. Bailer 120V Pump Flow Cell
 Disp. Tubing 12V Pump Peristaltic Pump Other/ID#: _____

WELL HEAD INTEGRITY (cap, lock, vault, etc.) Comments: _____
 Good Improvement Needed (circle one)

PURGING/SAMPLING METHOD Predetermined Well Volume Low-Flow Other: _____ (circle one)

PREDETERMINED WELL VOLUME				LOW-FLOW	
Casing Diameter	Unit Volume (gal/ft)	(circle one)		Previous Low-Flow Purge Rate:	(lpm)
1" (0.04)	1.25" (0.08)	<u>2" (0.17)</u>	3" (0.38)	Other:	
4" (0.66)	6" (1.50)	8" (2.60)	12" (5.81)		

Total Well Depth (a): _____ (ft)
 Initial Depth to Water (b): _____ (ft)
 Water Column Height (WCH) = (a - b): 5.00 (ft)
 Water Column Volume (WCV) = WCH x Unit Volume: _____ (gal)
 Three Casing Volumes = WCV x 3: _____ (gal)
 Five Casing Volumes = WCV x 5: _____ (gal)
 Pump Depth (if pump used): _____ (ft)

Diagram: A vertical well casing with a pump at the bottom. 'a' is the total depth, 'b' is the depth to water. A water table symbol is shown below the casing.

LOW-FLOW parameters:
 Total Well Depth (a): 13.64 (ft)
 Initial Depth to Water (b): 8.64 (ft)
 Pump In-take Depth = b + (a-b)²: 11.14 (ft)
 Maximum Allowable Drawdown = (a-b)²: 0.625 (ft)
 Low-Flow Purge Rate: _____ (gpm)*
 Comments: _____

*Low-flow purge rate should be within range of instruments used but should not exceed 0.25 gpm. Drawdown should not exceed Maximum Allowable Drawdown.

GROUNDWATER STABILIZATION PARAMETER RECORD

Time (24:00)	Cumulative Vol. gal or L	Temperature °C or °F	pH	ORP mV	Conductivity µS or mS	Turbidity NTU	DO mg/L	NOTES Odor, color, sheen or other
<u>18:15</u>	<u>0</u>	<u>48.3</u>	<u>6.35</u>	<u>6</u>	<u>0.37</u>	<u>0</u>	<u>3.93</u>	
<u>18:17</u>	<u>1/8</u>	<u>50.3</u>	<u>6.30</u>	<u>-2</u>	<u>0.366</u>	<u>4.1</u>	<u>1.30</u>	
<u>18:19</u>	<u>1/4</u>	<u>51.1</u>	<u>6.25</u>	<u>-10</u>	<u>0.369</u>	<u>5.1</u>	<u>1.03</u>	
<u>18:21</u>	<u>3/8</u>	<u>51.4</u>	<u>6.24</u>	<u>-12</u>	<u>0.366</u>	<u>0.0</u>	<u>0.99</u>	

** soaker was only a little dirty, flipped and lowered*

Previous Stabilized Parameters

PURGE COMPLETION RECORD Low Flow & Parameters Stable 3 Casing Volumes & Parameters Stable 5 Casing Volumes
 Other: _____

SAMPLE COLLECTION RECORD

GEOCHEMICAL PARAMETERS

Depth to Water at Sampling: 8.64 (ft)
 Sample Collected Via: Disp. Bailer Dedicated Pump Tubing
 Disp. Pump Tubing Other: _____
 Sample ID: MW-10 Sample Collection Time: 18:21 (24:00)
 Containers (#): 6 VOA (HCL) preserved or unpreserved 2 Liter Amber
 Other: _____ Other: _____
 Other: _____ Other: _____

Parameter	Time	Measurement
DO (mg/L)		
Ferrous Iron (mg/L)		
Redox Potential (mV)		
Alkalinity (mg/L)		
Other:		
Other:		

Signature: J. Ormerod



GROUNDWATER SAMPLING DATA SHEET

Page 1 of 1

Project: PTC-386

Project No.: 10-08-102

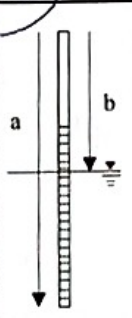
Date: 12/08/2020

Field Representative: J. Ormerod

Well ID: MW-16 Start Time: _____

End Time: _____ Total Time (minutes): _____

PURGE EQUIPMENT		___ Disp. Bailer	___ 120V Pump	<input checked="" type="checkbox"/> Flow Cell
<input checked="" type="checkbox"/> Disp. Tubing	___ 12V Pump	<input checked="" type="checkbox"/> Peristaltic Pump	Other/ID#:	
WELL HEAD INTEGRITY (cap, lock, vault, etc.)		Comments: <u>corner is cracked</u>		
Good <input type="checkbox"/> Improvement Needed <input checked="" type="checkbox"/> (circle one)				
PURGING/SAMPLING METHOD		Predetermined Well Volume	<input checked="" type="checkbox"/> Low-Flow	Other: _____ (circle one)
PREDETERMINED WELL VOLUME		LOW-FLOW		
Casing Diameter Unit Volume (gal/ft) (circle one)		Previous Low-Flow Purge Rate: _____ (lpm)		
1" (0.04)	1.25" (0.08)	<input checked="" type="checkbox"/> 2" (0.17)	3" (0.38)	Other: _____
4" (0.66)	6" (1.50)	8" (2.60)	12" (5.81)	___" ()
Total Well Depth (a): _____ (ft)		Total Well Depth (a): <u>13.53</u> (ft)		
Initial Depth to Water (b): _____ (ft)		Initial Depth to Water (b): <u>6.47</u> (ft)		
Water Column Height (WCH) = (a - b): <u>7.06</u> (ft)		Pump In-take Depth = b + (a-b)2: <u>10.00</u> (ft)		
Water Column Volume (WCV) = WCH x Unit Volume: _____ (gal)		Maximum Allowable Drawdown = (a-b)/8: <u>0.8825</u> (ft)		
Three Casing Volumes = WCV x 3: _____ (gal)		Low-Flow Purge Rate: _____ (gpm)*		
Five Casing Volumes = WCV x 5: _____ (gal)		Comments: _____		
Pump Depth (if pump used): _____ (ft)		*Low-flow purge rate should be within range of instruments used but should not exceed 0.25 gpm. Drawdown should not exceed Maximum Allowable Drawdown.		



GROUNDWATER STABILIZATION PARAMETER RECORD

Time (24:00)	Cumulative Vol. gal or L	Temperature °C or °F	pH	ORP mV	Conductivity µS or mS	Turbidity NTU	DO mg/L	NOTES Odor, color, sheen or other
17:26	0	54.5	6.37	-36	0.36	16.4	1.26	
17:28	1/8	55.2	6.36	-22	0.374	27.5	0.90	
17:30	1/4	55.2	6.35	-27	0.374	25.2	0.23	

Previous Stabilized Parameters _____

PURGE COMPLETION RECORD Low Flow & Parameters Stable ___ 3 Casing Volumes & Parameters Stable ___ 5 Casing Volumes

Other: _____

SAMPLE COLLECTION RECORD		GEOCHEMICAL PARAMETERS	
Parameter	Time	Measurement	
Depth to Water at Sampling: <u>6.50</u> (ft)			
Sample Collected Via: ___ Disp. Bailer ___ Dedicated Pump Tubing			
<input checked="" type="checkbox"/> Disp. Pump Tubing Other: _____			
Sample ID: <u>MW-16</u> Sample Collection Time: <u>17:50</u> (24:00)			
Containers (#): <u>6</u> VOA (HC preserved or ___ unpreserved) <u>2</u> Liter Amber			
Other: _____ Other: _____			
Other: _____ Other: _____			
DO (mg/L)			
Ferrous Iron (mg/L)			
Redox Potential (mV)			
Alkalinity (mg/L)			
Other: _____			
Other: _____			

Signature: _____

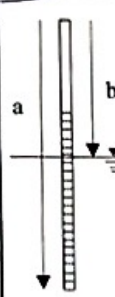


GROUNDWATER SAMPLING DATA SHEET

Page 2 of Project: 10-08-102 (PIC-399) Project No.: 10-08-102 Date: 12/9/20
Field Representative:
Well ID: RW-1 Start Time: End Time: Total Time (minutes): PURGE EQUIPMENT: Disp. Bailer 120V Pump Flow Cell
 Disp. Tubing 12V Pump Peristaltic Pump Other/ID#: WELL HEAD INTEGRITY (cap, lock, vault, etc.) Comments:
 Good Improvement Needed (circle one)

PURGING/SAMPLING METHOD: Predetermined Well Volume Low-Flow Other: (circle one)

PREDETERMINED WELL VOLUME					LOW-FLOW	
Casing Diameter Unit Volume (gal/ft) (circle one)					Previous Low-Flow Purge Rate:	(lpm)
1" (0.04)	1.25" (0.08)	2" (0.17)	3" (0.38)	Other:	Total Well Depth (a):	19.05 (ft)
<input checked="" type="checkbox"/> 4" (0.60)	6" (1.50)	8" (2.60)	12" (5.81)		Initial Depth to Water (b):	8.80 (ft)
Total Well Depth (a):					Pump In-take Depth = b + (a-b)2:	13.925 (ft)
Initial Depth to Water (b):					Maximum Allowable Drawdown = (a-b)8:	1.28 (ft)
Water Column Height (WCH) = (a - b):					Low-Flow Purge Rate:	(gpm)*
Water Column Volume (WCV) = WCH x Unit Volume:					Comments:	
Three Casing Volumes = WCV x 3:					*Low-flow purge rate should be within range of instruments used but should not exceed 0.25 gpm. Drawdown should not exceed Maximum Allowable Drawdown.	
Five Casing Volumes = WCV x 5:						
Pump Depth (if pump used):						



Time (24:00)	Cumulative Vol. gal or L.	Temperature °C or °F	pH	ORP mV	Conductivity µS or mS	Turbidity NTU	DO mg/L	NOTES
115	0.55.5	6.39	6	0.40	0.0	0.0	8.98	
117	1.11	56.5	6.42	-16	0.399	0.0	8.83	
119	2.22	56.5	6.42	-18	0.399	0.0	8.87	

PURGE COMPLETION RECORD: Low Flow & Parameters Stable 3 Casing Volumes & Parameters Stable 5 Casing Volumes
Other:

SAMPLE COLLECTION RECORD		GEOCHEMICAL PARAMETERS	
Depth to Water at Sampling: <u>8.80</u> (ft)		Parameter	Time
Sample Collected Via: <input checked="" type="checkbox"/> Disp. Pump Tubing <input type="checkbox"/> Dedicated Pump Tubing		Measurement	
<input checked="" type="checkbox"/> Disp. Pump Tubing Other: <u> </u>		DO (mg/L)	
Sample ID: <u>RW-1</u> Sample Collection Time: <u>1120</u> (24:00)		Ferrous Iron (mg/L)	
Containers (#) <u>6</u> VOA <input checked="" type="checkbox"/> preserved or <input type="checkbox"/> unpreserved <u>2</u> Liter Amber		Redox Potential (mV)	
Other: <u> </u> Other: <u> </u>		Alkalinity (mg/L)	
Other: <u> </u> Other: <u> </u>		Other:	
Other: <u> </u> Other: <u> </u>		Other:	

Signature:

APPENDIX C

**LABORATORY REPORT
AND CHAIN-OF-CUSTODY DOCUMENTATION**



Alpha Analytical, Inc.
255 Glendale Ave, #21
Sparks, Nevada 89431
TEL: (775) 355-1044 FAX: (775) 355-0406
Website: www.alpha-analytical.com

December 17, 2020

Aric Morton
Broadbent & Associates, Inc.
1370 Ridgewood Dr. Suite 5
Chico, CA 95973
TEL: (530) 566-1400
FAX: (530) 566-1401

RE: 10-08-102/PTC 389 Ellensburg

Order No.: BBA2012067

Dear Aric Morton:

The result of this report apply to the sample(s) as received.

There were no problems with the analytical events associated with this report unless noted.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in cursive script that reads "Randy Gardner".

Randy Gardner
Laboratory Manager
255 Glendale Ave, #21
Sparks, Nevada 89431



Alpha Analytical, Inc.
 255 Glendale Ave, #21
 Sparks, Nevada 89431
 TEL: (775) 355-1044 FAX: (775) 355-0406
 Website: www.alpha-analytical.com

Analytical Report

WO#: **BBA2012067**

Report Date: **12/17/2020**

CLIENT: Broadbent & Associates, Inc.
Project: 10-08-102/PTC 389 Ellensburg
Lab ID: 2012067-01
Client Sample ID: MW-1

Collection Date: 12/9/2020 10:06:00 AM

Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
Naphthalene	140	4.0		µg/L	12/16/2020	PNAs by EPA 8270SIM
2-Methylnaphthalene	48	2.0		µg/L	12/16/2020	PNAs by EPA 8270SIM
1-Methylnaphthalene	30	2.0		µg/L	12/16/2020	PNAs by EPA 8270SIM
Acenaphthylene	ND	2.0		µg/L	12/16/2020	PNAs by EPA 8270SIM
Acenaphthene	ND	2.0		µg/L	12/16/2020	PNAs by EPA 8270SIM
Fluorene	ND	2.0		µg/L	12/16/2020	PNAs by EPA 8270SIM
Phenanthrene	ND	2.0		µg/L	12/16/2020	PNAs by EPA 8270SIM
Anthracene	ND	2.0		µg/L	12/16/2020	PNAs by EPA 8270SIM
Fluoranthene	ND	2.0		µg/L	12/16/2020	PNAs by EPA 8270SIM
Pyrene	ND	2.0		µg/L	12/16/2020	PNAs by EPA 8270SIM
Benzo(a)anthracene	ND	2.0		µg/L	12/16/2020	PNAs by EPA 8270SIM
Chrysene	ND	2.0		µg/L	12/16/2020	PNAs by EPA 8270SIM
Benzo(b&k)fluoranthene, isomeric pair	ND	4.0		µg/L	12/16/2020	PNAs by EPA 8270SIM
Benzo(a)pyrene	ND	2.0		µg/L	12/16/2020	PNAs by EPA 8270SIM
Indeno(1,2,3-cd)pyrene	ND	2.0		µg/L	12/16/2020	PNAs by EPA 8270SIM
Dibenz(a,h)anthracene	ND	2.0		µg/L	12/16/2020	PNAs by EPA 8270SIM
Benzo(g,h,i)perylene	ND	2.0		µg/L	12/16/2020	PNAs by EPA 8270SIM
Surr: 2-Fluorobiphenyl	115	37-130		%Rec	12/16/2020	PNAs by EPA 8270SIM
Surr: 4-Terphenyl-d14	133	32-174		%Rec	12/16/2020	PNAs by EPA 8270SIM

NOTES:

Reporting Limits were increased due to high concentrations of target analytes.

Benzene	5,400	40		µg/L	12/15/2020	VOCs by EPA 8260
Toluene	120	40		µg/L	12/15/2020	VOCs by EPA 8260
Ethylbenzene	1,800	40		µg/L	12/15/2020	VOCs by EPA 8260
Xylenes, Total	5,000	40		µg/L	12/15/2020	VOCs by EPA 8260
Surr: 1,2-Dichloroethane-d4	82	70-130		%Rec	12/15/2020	VOCs by EPA 8260
Surr: Toluene-d8	89	70-130		%Rec	12/15/2020	VOCs by EPA 8260
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	12/15/2020	VOCs by EPA 8260



Alpha Analytical, Inc.
 255 Glendale Ave, #21
 Sparks, Nevada 89431
 TEL: (775) 355-1044 FAX: (775) 355-0406
 Website: www.alpha-analytical.com

Analytical Report

WO#: **BBA2012067**
 Report Date: **12/17/2020**

CLIENT: Broadbent & Associates, Inc.
Project: 10-08-102/PTC 389 Ellensburg
Lab ID: 2012067-02
Client Sample ID: MW-3

Collection Date: 12/8/2020 4:40:00 PM

Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
Naphthalene	7.6	2.0		µg/L	12/15/2020	PNAs by EPA 8270SIM
2-Methylnaphthalene	3.9	1.0		µg/L	12/15/2020	PNAs by EPA 8270SIM
1-Methylnaphthalene	8.9	1.0		µg/L	12/15/2020	PNAs by EPA 8270SIM
Acenaphthylene	ND	1.0		µg/L	12/15/2020	PNAs by EPA 8270SIM
Acenaphthene	ND	1.0		µg/L	12/15/2020	PNAs by EPA 8270SIM
Fluorene	1.0	1.0		µg/L	12/15/2020	PNAs by EPA 8270SIM
Phenanthrene	ND	1.0		µg/L	12/15/2020	PNAs by EPA 8270SIM
Anthracene	ND	1.0		µg/L	12/15/2020	PNAs by EPA 8270SIM
Fluoranthene	ND	1.0		µg/L	12/15/2020	PNAs by EPA 8270SIM
Pyrene	ND	1.0		µg/L	12/15/2020	PNAs by EPA 8270SIM
Benzo(a)anthracene	ND	1.0		µg/L	12/15/2020	PNAs by EPA 8270SIM
Chrysene	ND	1.0		µg/L	12/15/2020	PNAs by EPA 8270SIM
Benzo(b&k)fluoranthene, isomeric pair	ND	2.0		µg/L	12/15/2020	PNAs by EPA 8270SIM
Benzo(a)pyrene	ND	1.0		µg/L	12/15/2020	PNAs by EPA 8270SIM
Indeno(1,2,3-cd)pyrene	ND	1.0		µg/L	12/15/2020	PNAs by EPA 8270SIM
Dibenz(a,h)anthracene	ND	1.0		µg/L	12/15/2020	PNAs by EPA 8270SIM
Benzo(g,h,i)perylene	ND	1.0		µg/L	12/15/2020	PNAs by EPA 8270SIM
Surr: 2-Fluorobiphenyl	97	37-130		%Rec	12/15/2020	PNAs by EPA 8270SIM
Surr: 4-Terphenyl-d14	106	32-174		%Rec	12/15/2020	PNAs by EPA 8270SIM

NOTES:

Reporting Limits were increased due to high concentrations of target analytes.

Benzene	7.6	0.50		µg/L	12/15/2020	VOCs by EPA 8260
Toluene	0.52	0.50		µg/L	12/15/2020	VOCs by EPA 8260
Ethylbenzene	ND	0.50		µg/L	12/15/2020	VOCs by EPA 8260
Xylenes, Total	0.57	0.50		µg/L	12/15/2020	VOCs by EPA 8260
Surr: 1,2-Dichloroethane-d4	95	70-130		%Rec	12/15/2020	VOCs by EPA 8260
Surr: Toluene-d8	88	70-130		%Rec	12/15/2020	VOCs by EPA 8260
Surr: 4-Bromofluorobenzene	98	70-130		%Rec	12/15/2020	VOCs by EPA 8260



Alpha Analytical, Inc.
 255 Glendale Ave, #21
 Sparks, Nevada 89431
 TEL: (775) 355-1044 FAX: (775) 355-0406
 Website: www.alpha-analytical.com

Analytical Report

WO#: **BBA2012067**
 Report Date: **12/17/2020**

CLIENT: Broadbent & Associates, Inc.
Project: 10-08-102/PTC 389 Ellensburg
Lab ID: 2012067-03
Client Sample ID: MW-7

Collection Date: 12/9/2020 8:30:00 AM

Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
Naphthalene	0.040	0.040		µg/L	12/15/2020	PNAs by EPA 8270SIM
2-Methylnaphthalene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
1-Methylnaphthalene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Acenaphthylene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Acenaphthene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Fluorene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Phenanthrene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Anthracene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Fluoranthene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Pyrene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Benzo(a)anthracene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Chrysene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Benzo(b&k)fluoranthene, isomeric pair	ND	0.040		µg/L	12/15/2020	PNAs by EPA 8270SIM
Benzo(a)pyrene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Indeno(1,2,3-cd)pyrene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Dibenz(a,h)anthracene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Benzo(g,h,i)perylene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Surr: 2-Fluorobiphenyl	63	37-130		%Rec	12/15/2020	PNAs by EPA 8270SIM
Surr: 4-Terphenyl-d14	93	32-174		%Rec	12/15/2020	PNAs by EPA 8270SIM
Benzene	ND	0.50		µg/L	12/15/2020	VOCs by EPA 8260
Toluene	ND	0.50		µg/L	12/15/2020	VOCs by EPA 8260
Ethylbenzene	ND	0.50		µg/L	12/15/2020	VOCs by EPA 8260
Xylenes, Total	ND	0.50		µg/L	12/15/2020	VOCs by EPA 8260
Surr: 1,2-Dichloroethane-d4	82	70-130		%Rec	12/15/2020	VOCs by EPA 8260
Surr: Toluene-d8	91	70-130		%Rec	12/15/2020	VOCs by EPA 8260
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	12/15/2020	VOCs by EPA 8260



Alpha Analytical, Inc.
 255 Glendale Ave, #21
 Sparks, Nevada 89431
 TEL: (775) 355-1044 FAX: (775) 355-0406
 Website: www.alpha-analytical.com

Analytical Report

WO#: **BBA2012067**

Report Date: **12/17/2020**

CLIENT: Broadbent & Associates, Inc.

Collection Date: 12/9/2020 9:30:00 AM

Project: 10-08-102/PTC 389 Ellensburg

Lab ID: 2012067-04

Matrix: AQUEOUS

Client Sample ID: MW-8

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
Naphthalene	ND	0.040		µg/L	12/15/2020	PNAs by EPA 8270SIM
2-Methylnaphthalene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
1-Methylnaphthalene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Acenaphthylene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Acenaphthene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Fluorene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Phenanthrene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Anthracene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Fluoranthene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Pyrene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Benzo(a)anthracene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Chrysene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Benzo(b&k)fluoranthene, isomeric pair	ND	0.040		µg/L	12/15/2020	PNAs by EPA 8270SIM
Benzo(a)pyrene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Indeno(1,2,3-cd)pyrene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Dibenz(a,h)anthracene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Benzo(g,h,i)perylene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Surr: 2-Fluorobiphenyl	78	37-130		%Rec	12/15/2020	PNAs by EPA 8270SIM
Surr: 4-Terphenyl-d14	107	32-174		%Rec	12/15/2020	PNAs by EPA 8270SIM
Benzene	ND	0.50		µg/L	12/15/2020	VOCs by EPA 8260
Toluene	ND	0.50		µg/L	12/15/2020	VOCs by EPA 8260
Ethylbenzene	ND	0.50		µg/L	12/15/2020	VOCs by EPA 8260
Xylenes, Total	ND	0.50		µg/L	12/15/2020	VOCs by EPA 8260
Surr: 1,2-Dichloroethane-d4	86	70-130		%Rec	12/15/2020	VOCs by EPA 8260
Surr: Toluene-d8	89	70-130		%Rec	12/15/2020	VOCs by EPA 8260
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	12/15/2020	VOCs by EPA 8260



Alpha Analytical, Inc.
 255 Glendale Ave, #21
 Sparks, Nevada 89431
 TEL: (775) 355-1044 FAX: (775) 355-0406
 Website: www.alpha-analytical.com

Analytical Report

WO#: **BBA2012067**

Report Date: **12/17/2020**

CLIENT: Broadbent & Associates, Inc.
Project: 10-08-102/PTC 389 Ellensburg
Lab ID: 2012067-05
Client Sample ID: MW-9

Collection Date: 12/9/2020 10:44:00 AM

Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
Naphthalene	82	2.0		µg/L	12/16/2020	PNAs by EPA 8270SIM
2-Methylnaphthalene	49	1.0		µg/L	12/16/2020	PNAs by EPA 8270SIM
1-Methylnaphthalene	29	1.0		µg/L	12/16/2020	PNAs by EPA 8270SIM
Acenaphthylene	ND	1.0		µg/L	12/16/2020	PNAs by EPA 8270SIM
Acenaphthene	ND	1.0		µg/L	12/16/2020	PNAs by EPA 8270SIM
Fluorene	ND	1.0		µg/L	12/16/2020	PNAs by EPA 8270SIM
Phenanthrene	ND	1.0		µg/L	12/16/2020	PNAs by EPA 8270SIM
Anthracene	ND	1.0		µg/L	12/16/2020	PNAs by EPA 8270SIM
Fluoranthene	ND	1.0		µg/L	12/16/2020	PNAs by EPA 8270SIM
Pyrene	ND	1.0		µg/L	12/16/2020	PNAs by EPA 8270SIM
Benzo(a)anthracene	ND	1.0		µg/L	12/16/2020	PNAs by EPA 8270SIM
Chrysene	ND	1.0		µg/L	12/16/2020	PNAs by EPA 8270SIM
Benzo(b&k)fluoranthene, isomeric pair	ND	2.0		µg/L	12/16/2020	PNAs by EPA 8270SIM
Benzo(a)pyrene	ND	1.0		µg/L	12/16/2020	PNAs by EPA 8270SIM
Indeno(1,2,3-cd)pyrene	ND	1.0		µg/L	12/16/2020	PNAs by EPA 8270SIM
Dibenz(a,h)anthracene	ND	1.0		µg/L	12/16/2020	PNAs by EPA 8270SIM
Benzo(g,h,i)perylene	ND	1.0		µg/L	12/16/2020	PNAs by EPA 8270SIM
Surr: 2-Fluorobiphenyl	92	37-130		%Rec	12/16/2020	PNAs by EPA 8270SIM
Surr: 4-Terphenyl-d14	100	32-174		%Rec	12/16/2020	PNAs by EPA 8270SIM

NOTES:

Reporting Limits were increased due to high concentrations of target analytes.

Benzene	250	20		µg/L	12/15/2020	VOCs by EPA 8260
Toluene	260	20		µg/L	12/15/2020	VOCs by EPA 8260
Ethylbenzene	950	20		µg/L	12/15/2020	VOCs by EPA 8260
Xylenes, Total	4,500	20		µg/L	12/15/2020	VOCs by EPA 8260
Surr: 1,2-Dichloroethane-d4	84	70-130		%Rec	12/15/2020	VOCs by EPA 8260
Surr: Toluene-d8	90	70-130		%Rec	12/15/2020	VOCs by EPA 8260
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	12/15/2020	VOCs by EPA 8260



Alpha Analytical, Inc.
 255 Glendale Ave, #21
 Sparks, Nevada 89431
 TEL: (775) 355-1044 FAX: (775) 355-0406
 Website: www.alpha-analytical.com

Analytical Report

WO#: **BBA2012067**

Report Date: **12/17/2020**

CLIENT: Broadbent & Associates, Inc.
Project: 10-08-102/PTC 389 Ellensburg
Lab ID: 2012067-06
Client Sample ID: MW-10

Collection Date: 12/8/2020 6:21:00 PM

Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
Naphthalene	0.11	0.040		µg/L	12/15/2020	PNAs by EPA 8270SIM
2-Methylnaphthalene	0.042	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
1-Methylnaphthalene	0.030	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Acenaphthylene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Acenaphthene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Fluorene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Phenanthrene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Anthracene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Fluoranthene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Pyrene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Benzo(a)anthracene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Chrysene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Benzo(b&k)fluoranthene, isomeric pair	ND	0.040		µg/L	12/15/2020	PNAs by EPA 8270SIM
Benzo(a)pyrene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Indeno(1,2,3-cd)pyrene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Dibenz(a,h)anthracene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Benzo(g,h,i)perylene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Surr: 2-Fluorobiphenyl	66	37-130		%Rec	12/15/2020	PNAs by EPA 8270SIM
Surr: 4-Terphenyl-d14	94	32-174		%Rec	12/15/2020	PNAs by EPA 8270SIM
Benzene	9.0	0.50		µg/L	12/15/2020	VOCs by EPA 8260
Toluene	ND	0.50		µg/L	12/15/2020	VOCs by EPA 8260
Ethylbenzene	2.3	0.50		µg/L	12/15/2020	VOCs by EPA 8260
Xylenes, Total	19	0.50		µg/L	12/15/2020	VOCs by EPA 8260
Surr: 1,2-Dichloroethane-d4	88	70-130		%Rec	12/15/2020	VOCs by EPA 8260
Surr: Toluene-d8	92	70-130		%Rec	12/15/2020	VOCs by EPA 8260
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	12/15/2020	VOCs by EPA 8260



Alpha Analytical, Inc.
 255 Glendale Ave, #21
 Sparks, Nevada 89431
 TEL: (775) 355-1044 FAX: (775) 355-0406
 Website: www.alpha-analytical.com

Analytical Report

WO#: **BBA2012067**
 Report Date: **12/17/2020**

CLIENT: Broadbent & Associates, Inc.
Project: 10-08-102/PTC 389 Ellensburg
Lab ID: 2012067-07
Client Sample ID: MW-11

Collection Date: 12/8/2020 7:05:00 PM

Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
Naphthalene	2.1	0.20		µg/L	12/15/2020	PNAs by EPA 8270SIM
2-Methylnaphthalene	0.32	0.10		µg/L	12/15/2020	PNAs by EPA 8270SIM
1-Methylnaphthalene	0.58	0.10		µg/L	12/15/2020	PNAs by EPA 8270SIM
Acenaphthylene	ND	0.10		µg/L	12/15/2020	PNAs by EPA 8270SIM
Acenaphthene	0.12	0.10		µg/L	12/15/2020	PNAs by EPA 8270SIM
Fluorene	0.26	0.10		µg/L	12/15/2020	PNAs by EPA 8270SIM
Phenanthrene	ND	0.10		µg/L	12/15/2020	PNAs by EPA 8270SIM
Anthracene	ND	0.10		µg/L	12/15/2020	PNAs by EPA 8270SIM
Fluoranthene	ND	0.10		µg/L	12/15/2020	PNAs by EPA 8270SIM
Pyrene	ND	0.10		µg/L	12/15/2020	PNAs by EPA 8270SIM
Benzo(a)anthracene	ND	0.10		µg/L	12/15/2020	PNAs by EPA 8270SIM
Chrysene	ND	0.10		µg/L	12/15/2020	PNAs by EPA 8270SIM
Benzo(b&k)fluoranthene, isomeric pair	ND	0.20		µg/L	12/15/2020	PNAs by EPA 8270SIM
Benzo(a)pyrene	ND	0.10		µg/L	12/15/2020	PNAs by EPA 8270SIM
Indeno(1,2,3-cd)pyrene	ND	0.10		µg/L	12/15/2020	PNAs by EPA 8270SIM
Dibenz(a,h)anthracene	ND	0.10		µg/L	12/15/2020	PNAs by EPA 8270SIM
Benzo(g,h,i)perylene	ND	0.10		µg/L	12/15/2020	PNAs by EPA 8270SIM
Surr: 2-Fluorobiphenyl	64	37-130		%Rec	12/15/2020	PNAs by EPA 8270SIM
Surr: 4-Terphenyl-d14	76	32-174		%Rec	12/15/2020	PNAs by EPA 8270SIM

NOTES:

Reporting Limits were increased due to high concentrations of target analytes.

Benzene	10	0.50		µg/L	12/15/2020	VOCs by EPA 8260
Toluene	3.3	0.50		µg/L	12/15/2020	VOCs by EPA 8260
Ethylbenzene	ND	0.50		µg/L	12/15/2020	VOCs by EPA 8260
Xylenes, Total	25	0.50		µg/L	12/15/2020	VOCs by EPA 8260
Surr: 1,2-Dichloroethane-d4	96	70-130		%Rec	12/15/2020	VOCs by EPA 8260
Surr: Toluene-d8	85	70-130		%Rec	12/15/2020	VOCs by EPA 8260
Surr: 4-Bromofluorobenzene	97	70-130		%Rec	12/15/2020	VOCs by EPA 8260



Alpha Analytical, Inc.
 255 Glendale Ave, #21
 Sparks, Nevada 89431
 TEL: (775) 355-1044 FAX: (775) 355-0406
 Website: www.alpha-analytical.com

Analytical Report

WO#: **BBA2012067**

Report Date: **12/17/2020**

CLIENT: Broadbent & Associates, Inc.
Project: 10-08-102/PTC 389 Ellensburg
Lab ID: 2012067-08
Client Sample ID: MW-15

Collection Date: 12/8/2020 3:00:00 PM

Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
Naphthalene	79	16		µg/L	12/15/2020	PNAs by EPA 8270SIM
2-Methylnaphthalene	32	8.0		µg/L	12/15/2020	PNAs by EPA 8270SIM
1-Methylnaphthalene	23	8.0		µg/L	12/15/2020	PNAs by EPA 8270SIM
Acenaphthylene	ND	8.0		µg/L	12/15/2020	PNAs by EPA 8270SIM
Acenaphthene	ND	8.0		µg/L	12/15/2020	PNAs by EPA 8270SIM
Fluorene	ND	8.0		µg/L	12/15/2020	PNAs by EPA 8270SIM
Phenanthrene	ND	8.0		µg/L	12/15/2020	PNAs by EPA 8270SIM
Anthracene	ND	8.0		µg/L	12/15/2020	PNAs by EPA 8270SIM
Fluoranthene	ND	8.0		µg/L	12/15/2020	PNAs by EPA 8270SIM
Pyrene	ND	8.0		µg/L	12/15/2020	PNAs by EPA 8270SIM
Benzo(a)anthracene	ND	8.0		µg/L	12/15/2020	PNAs by EPA 8270SIM
Chrysene	ND	8.0		µg/L	12/15/2020	PNAs by EPA 8270SIM
Benzo(b&k)fluoranthene, isomeric pair	ND	16		µg/L	12/15/2020	PNAs by EPA 8270SIM
Benzo(a)pyrene	ND	8.0		µg/L	12/15/2020	PNAs by EPA 8270SIM
Indeno(1,2,3-cd)pyrene	ND	8.0		µg/L	12/15/2020	PNAs by EPA 8270SIM
Dibenz(a,h)anthracene	ND	8.0		µg/L	12/15/2020	PNAs by EPA 8270SIM
Benzo(g,h,i)perylene	ND	8.0		µg/L	12/15/2020	PNAs by EPA 8270SIM
Surr: 2-Fluorobiphenyl	0	37-130	S50	%Rec	12/15/2020	PNAs by EPA 8270SIM
Surr: 4-Terphenyl-d14	0	32-174	S50	%Rec	12/15/2020	PNAs by EPA 8270SIM

NOTES:

Reporting Limits were increased due to high concentrations of target analytes.

Benzene	240	2.5		µg/L	12/15/2020	VOCs by EPA 8260
Toluene	3.3	2.5		µg/L	12/15/2020	VOCs by EPA 8260
Ethylbenzene	440	2.5		µg/L	12/15/2020	VOCs by EPA 8260
Xylenes, Total	530	2.5		µg/L	12/15/2020	VOCs by EPA 8260
Surr: 1,2-Dichloroethane-d4	86	70-130		%Rec	12/15/2020	VOCs by EPA 8260
Surr: Toluene-d8	91	70-130		%Rec	12/15/2020	VOCs by EPA 8260
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	12/15/2020	VOCs by EPA 8260



Alpha Analytical, Inc.
 255 Glendale Ave, #21
 Sparks, Nevada 89431
 TEL: (775) 355-1044 FAX: (775) 355-0406
 Website: www.alpha-analytical.com

Analytical Report

WO#: **BBA2012067**
 Report Date: **12/17/2020**

CLIENT: Broadbent & Associates, Inc.
Project: 10-08-102/PTC 389 Ellensburg
Lab ID: 2012067-09
Client Sample ID: MW-16

Collection Date: 12/8/2020 5:50:00 PM

Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
Naphthalene	ND	0.040		µg/L	12/15/2020	PNAs by EPA 8270SIM
2-Methylnaphthalene	0.023	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
1-Methylnaphthalene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Acenaphthylene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Acenaphthene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Fluorene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Phenanthrene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Anthracene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Fluoranthene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Pyrene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Benzo(a)anthracene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Chrysene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Benzo(b&k)fluoranthene, isomeric pair	ND	0.040		µg/L	12/15/2020	PNAs by EPA 8270SIM
Benzo(a)pyrene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Indeno(1,2,3-cd)pyrene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Dibenz(a,h)anthracene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Benzo(g,h,i)perylene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Surr: 2-Fluorobiphenyl	61	37-130		%Rec	12/15/2020	PNAs by EPA 8270SIM
Surr: 4-Terphenyl-d14	87	32-174		%Rec	12/15/2020	PNAs by EPA 8270SIM
Benzene	ND	0.50		µg/L	12/15/2020	VOCs by EPA 8260
Toluene	ND	0.50		µg/L	12/15/2020	VOCs by EPA 8260
Ethylbenzene	ND	0.50		µg/L	12/15/2020	VOCs by EPA 8260
Xylenes, Total	ND	0.50		µg/L	12/15/2020	VOCs by EPA 8260
Surr: 1,2-Dichloroethane-d4	84	70-130		%Rec	12/15/2020	VOCs by EPA 8260
Surr: Toluene-d8	92	70-130		%Rec	12/15/2020	VOCs by EPA 8260
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	12/15/2020	VOCs by EPA 8260



Alpha Analytical, Inc.
 255 Glendale Ave, #21
 Sparks, Nevada 89431
 TEL: (775) 355-1044 FAX: (775) 355-0406
 Website: www.alpha-analytical.com

Analytical Report

WO#: **BBA2012067**

Report Date: **12/17/2020**

CLIENT: Broadbent & Associates, Inc.
Project: 10-08-102/PTC 389 Ellensburg
Lab ID: 2012067-10
Client Sample ID: RW-1

Collection Date: 12/9/2020 11:20:00 AM

Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
Naphthalene	0.11	0.040		µg/L	12/15/2020	PNAs by EPA 8270SIM
2-Methylnaphthalene	0.020	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
1-Methylnaphthalene	0.077	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Acenaphthylene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Acenaphthene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Fluorene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Phenanthrene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Anthracene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Fluoranthene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Pyrene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Benzo(a)anthracene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Chrysene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Benzo(b&k)fluoranthene, isomeric pair	ND	0.040		µg/L	12/15/2020	PNAs by EPA 8270SIM
Benzo(a)pyrene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Indeno(1,2,3-cd)pyrene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Dibenz(a,h)anthracene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Benzo(g,h,i)perylene	ND	0.020		µg/L	12/15/2020	PNAs by EPA 8270SIM
Surr: 2-Fluorobiphenyl	69	37-130		%Rec	12/15/2020	PNAs by EPA 8270SIM
Surr: 4-Terphenyl-d14	92	32-174		%Rec	12/15/2020	PNAs by EPA 8270SIM
Benzene	13	0.50		µg/L	12/15/2020	VOCs by EPA 8260
Toluene	ND	0.50		µg/L	12/15/2020	VOCs by EPA 8260
Ethylbenzene	ND	0.50		µg/L	12/15/2020	VOCs by EPA 8260
Xylenes, Total	ND	0.50		µg/L	12/15/2020	VOCs by EPA 8260
Surr: 1,2-Dichloroethane-d4	84	70-130		%Rec	12/15/2020	VOCs by EPA 8260
Surr: Toluene-d8	93	70-130		%Rec	12/15/2020	VOCs by EPA 8260
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	12/15/2020	VOCs by EPA 8260



Alpha Analytical, Inc.
 255 Glendale Ave, #21
 Sparks, Nevada 89431
 TEL: (775) 355-1044 FAX: (775) 355-0406
 Website: www.alpha-analytical.com

Analytical Report

WO#: **BBA2012067**
 Report Date: **12/17/2020**

CLIENT: Broadbent & Associates, Inc.
Project: 10-08-102/PTC 389 Ellensburg
Lab ID: 2012067-11
Client Sample ID: RW-2

Collection Date: 12/8/2020 3:51:00 PM

Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
Naphthalene	1.8	0.40		µg/L	12/15/2020	PNAs by EPA 8270SIM
2-Methylnaphthalene	0.61	0.20		µg/L	12/15/2020	PNAs by EPA 8270SIM
1-Methylnaphthalene	3.1	0.20		µg/L	12/15/2020	PNAs by EPA 8270SIM
Acenaphthylene	ND	0.20		µg/L	12/15/2020	PNAs by EPA 8270SIM
Acenaphthene	0.26	0.20		µg/L	12/15/2020	PNAs by EPA 8270SIM
Fluorene	0.53	0.20		µg/L	12/15/2020	PNAs by EPA 8270SIM
Phenanthrene	ND	0.20		µg/L	12/15/2020	PNAs by EPA 8270SIM
Anthracene	ND	0.20		µg/L	12/15/2020	PNAs by EPA 8270SIM
Fluoranthene	ND	0.20		µg/L	12/15/2020	PNAs by EPA 8270SIM
Pyrene	ND	0.20		µg/L	12/15/2020	PNAs by EPA 8270SIM
Benzo(a)anthracene	ND	0.20		µg/L	12/15/2020	PNAs by EPA 8270SIM
Chrysene	ND	0.20		µg/L	12/15/2020	PNAs by EPA 8270SIM
Benzo(b&k)fluoranthene, isomeric pair	ND	0.40		µg/L	12/15/2020	PNAs by EPA 8270SIM
Benzo(a)pyrene	ND	0.20		µg/L	12/15/2020	PNAs by EPA 8270SIM
Indeno(1,2,3-cd)pyrene	ND	0.20		µg/L	12/15/2020	PNAs by EPA 8270SIM
Dibenz(a,h)anthracene	ND	0.20		µg/L	12/15/2020	PNAs by EPA 8270SIM
Benzo(g,h,i)perylene	ND	0.20		µg/L	12/15/2020	PNAs by EPA 8270SIM
Surr: 2-Fluorobiphenyl	80	37-130		%Rec	12/15/2020	PNAs by EPA 8270SIM
Surr: 4-Terphenyl-d14	80	32-174		%Rec	12/15/2020	PNAs by EPA 8270SIM

NOTES:

Reporting Limits were increased due to high concentrations of target analytes.

Benzene	10	0.50		µg/L	12/15/2020	VOCs by EPA 8260
Toluene	0.67	0.50		µg/L	12/15/2020	VOCs by EPA 8260
Ethylbenzene	ND	0.50		µg/L	12/15/2020	VOCs by EPA 8260
Xylenes, Total	2.2	0.50		µg/L	12/15/2020	VOCs by EPA 8260
Surr: 1,2-Dichloroethane-d4	92	70-130		%Rec	12/15/2020	VOCs by EPA 8260
Surr: Toluene-d8	90	70-130		%Rec	12/15/2020	VOCs by EPA 8260
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	12/15/2020	VOCs by EPA 8260



Alpha Analytical, Inc.
 255 Glendale Ave, #21
 Sparks, Nevada 89431
 TEL: (775) 355-1044 FAX: (775) 355-0406
 Website: www.alpha-analytical.com

QC SUMMARY REPORT

WO#: 2012067
 17-Dec-20

Client: Broadbent & Associates, Inc.
Project: 10-08-102/PTC 389 Ellensburg

TestCode: PNA_SIM_W

Sample ID: MB-12044	SampType: MBLK	TestCode: PNA_SIM_W	Units: µg/L
Client ID: PBW	Batch ID: 12044	TestNo: SW8270C	
Prep Date: 12/14/2020	RunNo: 10667	SeqNo: 304359	
Analysis Date: 12/15/2020			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	0.04									
2-Methylnaphthalene	ND	0.02									
1-Methylnaphthalene	ND	0.02									
Acenaphthylene	ND	0.02									
Acenaphthene	ND	0.02									
Fluorene	ND	0.02									
Phenanthrene	ND	0.02									
Anthracene	ND	0.02									
Fluoranthene	ND	0.02									
Pyrene	ND	0.02									
Benzo(a)anthracene	ND	0.02									
Chrysene	ND	0.02									
Benzo(b&k)fluoranthene, isomeric pair	ND	0.04									
Benzo(a)pyrene	ND	0.02									
Indeno(1,2,3-cd)pyrene	ND	0.02									
Dibenz(a,h)anthracene	ND	0.02									
Benzo(g,h,i)perylene	ND	0.02									
Surr: 2-Fluorobiphenyl	0.17		0.25		69.0	34.8	163				
Surr: 4-Terphenyl-d14	0.28		0.25		113	42	196				

Sample ID: MB-12044	SampType: MBLK	TestCode: PNA_SIM_W	Units: µg/L
Client ID: PBW	Batch ID: 12044	TestNo: SW8270C	
Prep Date: 12/14/2020	RunNo: 10667	SeqNo: 304406	
Analysis Date: 12/15/2020			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	0.04									
2-Methylnaphthalene	ND	0.02									
1-Methylnaphthalene	ND	0.02									
Acenaphthylene	ND	0.02									
Acenaphthene	ND	0.02									
Fluorene	ND	0.02									
Phenanthrene	ND	0.02									
Anthracene	ND	0.02									
Fluoranthene	ND	0.02									
Pyrene	ND	0.02									
Benzo(a)anthracene	ND	0.02									
Chrysene	ND	0.02									

Qualifiers:
 B Analyte detected in the associated Method Blau
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limit



Alpha Analytical, Inc.
 255 Glendale Ave, #21
 Sparks, Nevada 89431
 TEL: (775) 355-1044 FAX: (775) 355-0406
 Website: www.alpha-analytical.com

QC SUMMARY REPORT

WO#: 2012067

17-Dec-20

Client: Broadbent & Associates, Inc.
Project: 10-08-102/PTC 389 Ellensburg

TestCode: PNA_SIM_W

Sample ID: MB-12044	SampType: MBLK	TestCode: PNA_SIM_W	Units: µg/L
Client ID: PBW	Batch ID: 12044	TestNo: SW8270C	
Prep Date: 12/14/2020	RunNo: 10667	SeqNo: 304406	
Analysis Date: 12/15/2020			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(b&k)fluoranthene, isomeric pair	ND	0.04									
Benzo(a)pyrene	ND	0.02									
Indeno(1,2,3-cd)pyrene	ND	0.02									
Dibenz(a,h)anthracene	ND	0.02									
Benzo(g,h,i)perylene	ND	0.02									
Surr: 2-Fluorobiphenyl	0.17		0.25		69.0	34.8	163				
Surr: 4-Terphenyl-d14	0.28		0.25		113	42	196				

Sample ID: LCSD-12044	SampType: LCSD	TestCode: PNA_SIM_W	Units: µg/L
Client ID: LCSS02	Batch ID: 12044	TestNo: SW8270C	
Prep Date: 12/14/2020	RunNo: 10667	SeqNo: 304416	
Analysis Date: 12/15/2020			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	0.188	0.04	0.25	0	75.4	42.2	135	0.227	18	29.3	
2-Methylnaphthalene	0.181	0.02	0.25	0	72.3	21.3	182	0.214	17	35.6	
1-Methylnaphthalene	0.175	0.02	0.25	0	70.1	36.5	161	0.203	15	48.4	
Acenaphthylene	0.193	0.02	0.25	0	77.2	25.1	142	0.219	12	32.4	
Acenaphthene	0.175	0.02	0.25	0	70.1	37.5	134	0.2	13	31.8	
Fluorene	0.189	0.02	0.25	0	75.5	35.7	140	0.214	13	32.5	
Phenanthrene	0.177	0.02	0.25	0	70.7	23.2	151	0.203	14	18.6	
Anthracene	0.204	0.02	0.25	0	81.5	39.3	129	0.237	15	34.8	
Fluoranthene	0.227	0.02	0.25	0	90.7	38.9	136	0.262	15	30.8	
Pyrene	0.226	0.02	0.25	0	90.6	39.3	137	0.254	11	34.4	
Benzo(a)anthracene	0.186	0.02	0.25	0	74.4	14.9	137	0.193	3.9	105	
Chrysene	0.193	0.02	0.25	0	77.2	28.9	165	0.217	12	35.5	
Benzo(b&k)fluoranthene, isomeric pair	0.457	0.04	0.5	0	91.3	26.9	158	0.512	11	40.7	
Benzo(a)pyrene	0.214	0.02	0.25	0	85.6	16.5	151	0.188	13	41.5	
Indeno(1,2,3-cd)pyrene	0.219	0.02	0.25	0	87.6	21.9	142	0.204	7.2	53.5	
Dibenz(a,h)anthracene	0.245	0.02	0.25	0	98.1	14.7	152	0.187	27	37	
Benzo(g,h,i)perylene	0.221	0.02	0.25	0	88.2	26.2	158	0.198	11	52.8	
Surr: 2-Fluorobiphenyl	0.147		0.25		58.9	46.3	163	0.17	0	0	
Surr: 4-Terphenyl-d14	0.242		0.25		96.9	43.3	178	0.264	0	0	

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limit



Alpha Analytical, Inc.
 255 Glendale Ave, #21
 Sparks, Nevada 89431
 TEL: (775) 355-1044 FAX: (775) 355-0406
 Website: www.alpha-analytical.com

QC SUMMARY REPORT

WO#: 2012067
 17-Dec-20

Client: Broadbent & Associates, Inc.
Project: 10-08-102/PTC 389 Ellensburg

TestCode: PNA_SIM_W

Sample ID: LCS-12044	SampType: LCS	TestCode: PNA_SIM_W	Units: µg/L
Client ID: LCSW	Batch ID: 12044	TestNo: SW8270C	
Prep Date: 12/14/2020	RunNo: 10667	SeqNo: 304415	
Analysis Date: 12/15/2020			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	0.227	0.04	0.25	0	90.7	42.2	135				
2-Methylnaphthalene	0.214	0.02	0.25	0	85.5	21.3	182				
1-Methylnaphthalene	0.203	0.02	0.25	0	81.2	36.5	161				
Acenaphthylene	0.219	0.02	0.25	0	87.5	25.1	142				
Acenaphthene	0.2	0.02	0.25	0	79.9	37.5	134				
Fluorene	0.214	0.02	0.25	0	85.7	35.7	140				
Phenanthrene	0.203	0.02	0.25	0	81.2	23.2	151				
Anthracene	0.237	0.02	0.25	0	94.7	39.3	129				
Fluoranthene	0.262	0.02	0.25	0	105	38.9	136				
Pyrene	0.254	0.02	0.25	0	102	39.3	137				
Benzo(a)anthracene	0.193	0.02	0.25	0	77.3	14.9	137				
Chrysene	0.217	0.02	0.25	0	86.9	28.9	165				
Benzo(b&k)fluoranthene, isomeric pair	0.512	0.04	0.5	0	102	26.9	158				
Benzo(a)pyrene	0.188	0.02	0.25	0	75.2	16.5	151				
Indeno(1,2,3-cd)pyrene	0.204	0.02	0.25	0	81.6	21.9	142				
Dibenz(a,h)anthracene	0.187	0.02	0.25	0	74.7	14.7	152				
Benzo(g,h,i)perylene	0.198	0.02	0.25	0	79.0	26.2	158				
Surr: 2-Fluorobiphenyl	0.17		0.25		68.1	46.3	163				
Surr: 4-Terphenyl-d14	0.264		0.25		106	43.3	178				

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limit



Alpha Analytical, Inc.
 255 Glendale Ave, #21
 Sparks, Nevada 89431
 TEL: (775) 355-1044 FAX: (775) 355-0406
 Website: www.alpha-analytical.com

QC SUMMARY REPORT

WO#: 2012067

17-Dec-20

Client: Broadbent & Associates, Inc.
Project: 10-08-102/PTC 389 Ellensburg

TestCode: VOC_W

Sample ID: MB-12062	SampType: MBLK	TestCode: VOC_W	Units: µg/L
Client ID: PBW	Batch ID: A12062	TestNo: SW8260C	
Prep Date: 12/15/2020	RunNo: 10668	SeqNo: 304380	
Analysis Date: 12/15/2020			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.5									
Toluene	ND	0.5									
Ethylbenzene	ND	0.5									
Xylenes, Total	ND	0.5									
Surr: 1,2-Dichloroethane-d4	8.6		10		85.9	69.51	130.49				
Surr: Toluene-d8	9.2		10		91.8	69.51	130.49				
Surr: 4-Bromofluorobenzene	11		10		107	69.51	130.49				

Sample ID: LCS-12062	SampType: LCS	TestCode: VOC_W	Units: µg/L
Client ID: LCSW	Batch ID: A12062	TestNo: SW8260C	
Prep Date: 12/15/2020	RunNo: 10668	SeqNo: 304379	
Analysis Date: 12/15/2020			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	10.3	0.5	10	0	103	79.5	120.4				
Toluene	10.7	0.5	10	0	107	79.7	126				
Ethylbenzene	9.65	0.5	10	0	96.5	77.5	120.4				
Xylenes, Total	17.8	0.5	20	0	88.8	77.6	120.4				
Surr: 1,2-Dichloroethane-d4	8.46		10		84.6	69.51	130.5				
Surr: Toluene-d8	9.16		10		91.6	69.51	130.5				
Surr: 4-Bromofluorobenzene	10.3		10		103	69.51	130.5				

Sample ID: 2012067-03AMSD	SampType: MSD	TestCode: VOC_W	Units: µg/L
Client ID: MW-7MSD	Batch ID: A12062	TestNo: SW8260C	
Prep Date: 12/15/2020	RunNo: 10668	SeqNo: 304378	
Analysis Date: 12/15/2020			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	48.1	2.5	50	0	96.2	67.8	140	47.6	1.1	18.1	
Toluene	53.1	2.5	50	0	106	67.2	131	51.3	3.5	18.3	
Ethylbenzene	47.1	2.5	50	0	94.2	70.3	122	48.1	2.1	25.3	
Xylenes, Total	90	2.5	100	0	90.0	61	131	90.2	0.28	25.6	
Surr: 1,2-Dichloroethane-d4	42.6		50		85.2	69.51	130.49	42.2	0	0	
Surr: Toluene-d8	45.1		50		90.3	69.51	130.49	47	0	0	
Surr: 4-Bromofluorobenzene	51.2		50		102	69.51	130.49	53.2	0	0	

Qualifiers:
 B Analyte detected in the associated Method Blau
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limit



Alpha Analytical, Inc.
 255 Glendale Ave, #21
 Sparks, Nevada 89431
 TEL: (775) 355-1044 FAX: (775) 355-0406
 Website: www.alpha-analytical.com

QC SUMMARY REPORT

WO#: 2012067
 17-Dec-20

Client: Broadbent & Associates, Inc.
Project: 10-08-102/PTC 389 Ellensburg

TestCode: VOC_W

Sample ID: 2012067-03AMS	SampType: MS	TestCode: VOC_W	Units: µg/L
Client ID: MW-7MS	Batch ID: A12062	TestNo: SW8260C	
Prep Date: 12/15/2020	RunNo: 10668	SeqNo: 304377	
Analysis Date: 12/15/2020			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	47.6	2.5	50	0	95.2	67.8	140				
Toluene	51.3	2.5	50	0	103	67.2	131				
Ethylbenzene	48.1	2.5	50	0	96.2	70.3	122				
Xylenes, Total	90.2	2.5	100	0	90.2	61	131				
Surr: 1,2-Dichloroethane-d4	42.2		50		84.4	69.51	130.49				
Surr: Toluene-d8	47		50		94.0	69.51	130.49				
Surr: 4-Bromofluorobenzene	53.2		50		106	69.51	130.49				

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limit



Alpha Analytical, Inc.
255 Glendale Ave, #21
Sparks, Nevada 89431
TEL: (775) 355-1044 FAX: (775) 355-0406
Website: www.alpha-analytical.com

Definition Only

WO#: 2012067
Date: 12/17/2020

Definitions:

ND = Not Detected

C = Reported concentration includes additional compounds uncharacteristic of common fuels and lubricants.

D = Reporting Limits were increased due to high concentrations of non-target analytes.

H = Reporting Limits were increased due to the hydrocarbons present in the sample.

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

K = DRO concentration may include contributions from lighter-end hydrocarbons (e.g. gasoline) that elute in the DRO range.

L = DRO concentration may include contributions from heavier-end hydrocarbons (e.g. motor oil) that elute in the DRO range.

O = Reporting Limits were increased due to sample foaming.

V = Reporting Limits were increased due to high concentrations of target analytes.

X = Reporting Limits were increased due to sample matrix interferences.

Z = DRO concentration may include contributions from lighter-end (e.g. gasoline) and heavier-end (e.g. motor oil) hydrocarbons that elute in the DRO range.

S50 = The analysis of the sample required a dilution such that the surrogate concentration was diluted below the laboratory acceptance criteria. The laboratory control sample was acceptable.

S51 = Surrogate recovery could not be determined due to the presence of co-eluting hydrocarbons.

S52 = Surrogate recovery was above laboratory acceptance limits. Probable matrix effect.

S53 = Surrogate recovery was below laboratory acceptance limits. Probable matrix effect.

S54 = Surrogate recovery was below laboratory acceptance limits.

S55 = Surrogate recovery was above laboratory acceptance limits.

Report CC's **Aric Morton**

WORKORDER SUMMARY

WA

WorkOrder: **BBA2012067**
Report Due By: **17-Dec-20**
EDD Required: **NO**

Alpha Analytical, Inc.

255 Glendale Ave. #21 Sparks, Nevada 89431
TEL: (775) 355-1044 FAX: (775) 355-0406

Report Attention: **Aric Morton**

Client:
Broadbent & Associates, Inc.
1370 Ridgewood Dr. Suite 5
Chico, CA 95973

TEL: 5305661400
FAX: 5305661401

ProjectNo: 10-08-102/PTC 389 Ellensburg

Date Received: **10-Dec-20**

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha Sub	TAT	Requested Tests				Sample Remarks
						PNA_SIM_W	TPHE_W	TPHP_W	VOC_W	
BBA2012067-01	MW-1	AQ	12/9/2020 10:06:00 AM	8	0	5	A - NWTPTH-Dx	A - NWTPTH-Gx	A - BTXE_C	
BBA2012067-02	MW-3	AQ	12/8/2020 4:40:00 PM	8	0	5	A - NWTPTH-Dx	A - NWTPTH-Gx	A - BTXE_C	
BBA2012067-03	MW-7	AQ	12/9/2020 8:30:00 AM	8	0	5	A - NWTPTH-Dx	A - NWTPTH-Gx	A - BTXE_C	
BBA2012067-04	MW-8	AQ	12/9/2020 9:30:00 AM	8	0	5	A - NWTPTH-Dx	A - NWTPTH-Gx	A - BTXE_C	
BBA2012067-05	MW-9	AQ	12/9/2020 10:44:00 AM	8	0	5	A - NWTPTH-Dx	A - NWTPTH-Gx	A - BTXE_C	
BBA2012067-06	MW-10	AQ	12/8/2020 6:21:00 PM	8	0	5	A - NWTPTH-Dx	A - NWTPTH-Gx	A - BTXE_C	
BBA2012067-07	MW-11	AQ	12/8/2020 7:05:00 PM	8	0	5	A - NWTPTH-Dx	A - NWTPTH-Gx	A - BTXE_C	
BBA2012067-08	MW-15	AQ	12/8/2020 3:00:00 PM	8	0	5	A - NWTPTH-Dx	A - NWTPTH-Gx	A - BTXE_C	
BBA2012067-09	MW-16	AQ	12/8/2020 5:50:00 PM	8	0	5	A - NWTPTH-Dx	A - NWTPTH-Gx	A - BTXE_C	
BBA2012067-10	RW-1	AQ	12/9/2020 11:20:00 AM	8	0	5	A - NWTPTH-Dx	A - NWTPTH-Gx	A - BTXE_C	

Comments: Total Xylenes.

Logged in by: Edmund Signature: Edmund Print Name: Edmund Company: Alpha Analytical, Inc. Date/Time: 12.10.20 10:33

NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles		Requested Tests				Sample Remarks	
				Alpha	Sub	TAT	PNA_SIM_W	TPH/E_W	TPHP_W		VOC_W
BBA2012067-11	RW-2	AQ	12/8/2020 3:51:00 PM	8	0	5	A - SIM	A - NWTPH-Dx	A - NWTPH-Gx	A - BTXE_C	

Comments: Total Xylenes.

Logged in by:	Signature	Print Name	Company	Date/Time
	<i>Edmund</i>	<i>Edmund</i>	Alpha Analytical, Inc.	12.10.20 10:33

NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

CHAIN OF CUSTODY

04681



Billing Information:

Company: _____
 Attn: _____
 Address: _____
 City, State, Zip: _____
 Phone Number: _____
 Fax: _____

Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431
 Phone: 775-355-1044
 Fax: 775-355-0406
 Satellite Service Centers:
 Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827
 Phone: 916-366-8089
 Northern NV: 350 7th St., Eiko, NV 89801
 Phone: 775-388-7043

Page # 1 of 2

Consultant/ Client Info:

Company: Broadbent Assoc. Inc.
 Address: 2340 SE Glendale St
 City, State, Zip: Portland, OR 97202

Job and Purchase Order Info:

Job # 10-08-102
 Job Name: PTC 389 Ellensburg
 P.O. #: _____

Report Attention/Project Manager:

Name: Ann Horton
 Email Address: ahorton@broadbent.com
 Phone #: _____
 Cell #: _____
 Global ID: _____
 Data Validation Packages: _____

QC Deliverable Info:

EDD Required? Yes No
 EDF Required? Yes No

Samples Collected from which State? (circle one) AR CA KS NV OR WA Other

Time Sampled (HH:MM)	Date Sampled (MM/DD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	# Containers** (See Key Below)	Field Filled?		Analysis Requested				Remarks	
							Yes	No	PAH's	BTX	MTPH	OT		OT
10:06/12/9	12/9	AQ	BBA201207-01	Mw-1	1d	6	X		PAH's 8270					
16:40/12/8	12/8		02	Mw-3										
0830/12/9	12/9		03	Mw-7										
0830/12/9	12/9		04	Mw-8										
1044/12/9	12/9		05	Mw-9										
1821/12/8	12/8		06	Mw-10										
1905/12/9	12/9		07	Mw-11										
1500/12/8	12/8		08	Mw-15										
17:59/12/8	12/8		09	Mw-16										
11:20/12/9	12/9		10	Rw-1										

ADDITIONAL INSTRUCTIONS: Please reference Code 589-605-13 on invoice to Pilot

I (field sampler) attest to the validity and authenticity of this sample(s). I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. NAC 445.0536 (c) (2).

Sampled By:

Relinquished by: (Signature/Affiliation): [Signature] Date: 12/09/2010 Time: 13:45
 Relinquished by: (Signature/Affiliation): [Signature] Date: _____ Time: _____
 Relinquished by: (Signature/Affiliation): _____ Date: _____ Time: _____

* Key: AQ - Aqueous AR-Air OT - Other So-Soil WA - Waste ** B - Brass L - Liter O - Orbo O - Other OT - Other P - Plastic S - Soil Jar T - Tedlar V - VOA
 NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

CHAIN OF CUSTODY

04597

Billing Information:

Company: _____
 Attn: _____
 Address: _____
 City, State, Zip: _____
 Phone Number: _____
 Fax: _____



Alpha Analytical, Inc.
 Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431
 Phone: 775-355-1044
 Fax: 775-355-0406
Satellite Service Centers:
 Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827
 Phone: 916-366-8089
 Northern NV: 350 7th St., Elko, NV 89801
 Phone: 775-388-7043

Page # 2 of 2

Consultant/ Client Info:
 Company: Broadbent + Associates
 Address: 2340 SE Gladstone St
Portland, OR 9702
 City, State, Zip: _____
 P.O. #: _____

Job and Purchase Order Info:
 Job #: 16-08-102
 Job Name: PTC 589 Ellenburg
 P.O. #: _____

Report Attention/Project Manager:
 Name: Aric Morton
 Email Address: aric.morton@broadbentinc.com
 Phone #: 503.255.1111
 Cell #: 503.255.1111

QC Deliverable Info:
 EDD Required? Yes No
 EDF Required? Yes No
 Global ID: _____
 Data Validation Packages: III or IV

Time Sampled (HH:MM)	Date Sampled (MM/DD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	# Containers** (See Key Below)		Analysis Requested		Remarks
						Field Filled?	Yes	No	Yes	
15:51/12/8		AQ	BBA201302-11	RW-2	Std 602L	X		X	NMTPH 8x/4x	
									X BTEX 8021	
									X PATHS 8020 SIM	

ADDITIONAL INSTRUCTIONS: Please reference code 389-605-15 on invoice to P.104

I (field sampler) attest to the validity and authenticity of this sample(s). I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. NAC 445.0636 (c) (2).

Sampled By: _____
 Relinquished by: (Signature/Affiliation): [Signature]
 Date: 12/9/2020 Time: 13:45
 Relinquished by: (Signature/Affiliation): [Signature]
 Date: _____ Time: _____
 Relinquished by: (Signature/Affiliation): _____
 Date: _____ Time: _____

Received By: _____
 Received by: (Signature/Affiliation): [Signature]
 Date: 12.10.20 Time: 10:33
 Received by: (Signature/Affiliation): _____
 Date: _____ Time: _____

* Key: AQ - Aqueous AR-Air OT - Other So-Soil WA - Waste ** B - Brass L - Liter O - Other P - Plastic S - Soil Jar T - Tedlar V - VOA

NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.



Alpha Analytical, Inc.
255 Glendale Ave, #21
Sparks, Nevada 89431
TEL: (775) 355-1044 FAX: (775) 355-0406
Website: www.alpha-analytical.com

December 17, 2020

Aric Morton
Broadbent & Associates, Inc.
1370 Ridgewood Dr. Suite 5
Chico, CA 95973
TEL: (530) 566-1400
FAX: (530) 566-1401

RE: 10-08-102/PTC 389 Ellensburg

Order No.: BBA2012067

Dear Aric Morton:

The result of this report apply to the sample(s) as received.

There were no problems with the analytical events associated with this report unless noted.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in cursive script that reads "Randy Gardner".

Randy Gardner
Laboratory Manager
255 Glendale Ave, #21
Sparks, Nevada 89431



ANALYTICAL REPORT

Broadbent & Associates, Inc.
 1370 Ridgewood Dr. Suite 5
 Chico, CA 95973
 Job: 10-08-102/PTC 389 Ellensburg

Attn: Aric Morton
 Phone: 5305661400
 Fax: 5305661401

Northwest Total Petroleum Hydrocarbons - Gasoline Extended (NWTPH-Gx)
 Northwest Total Petroleum Hydrocarbons - Diesel Extended (NWTPH-Dx)

Parameter	Concentration	Reporting Limit	Date Analyzed		
Client ID: MW-1					
Lab ID: BBAC2012067-01A	TPH-E (DRO)	2.5	K	0.25 mg/L	12/15/2020
Date Sampled: 12/9/2020	Surr: Nonane	103		63 - 125 %Rec	12/15/2020
	TPH-P (GRO)	32		8.0 mg/L	12/15/2020
	Surr: 1,2-Dichloroethane-d4	82.0		70 - 130 %Rec	12/15/2020
	Surr: Toluene-d8	88.8		70 - 130 %Rec	12/15/2020
	Surr: 4-Bromofluorobenzene	100		70 - 130 %Rec	12/15/2020
Client ID: MW-3					
Lab ID: BBAC2012067-02A	TPH-E (DRO)	1.4	K	0.25 mg/L	12/15/2020
Date Sampled: 12/8/2020	Surr: Nonane	119		63 - 125 %Rec	12/15/2020
	TPH-P (GRO)	0.99		0.25 mg/L	12/15/2020
	Surr: 1,2-Dichloroethane-d4	94.7		70 - 130 %Rec	12/15/2020
	Surr: Toluene-d8	88.4		70 - 130 %Rec	12/15/2020
	Surr: 4-Bromofluorobenzene	98.2		70 - 130 %Rec	12/15/2020
Client ID: MW-7					
Lab ID: BBAC2012067-03A	TPH-E (DRO)	ND		0.25 mg/L	12/15/2020
Date Sampled: 12/9/2020	Surr: Nonane	105		63 - 125 %Rec	12/15/2020
	TPH-P (GRO)	ND		0.25 mg/L	12/15/2020
	Surr: 1,2-Dichloroethane-d4	82.0		70 - 130 %Rec	12/15/2020
	Surr: Toluene-d8	91.0		70 - 130 %Rec	12/15/2020
	Surr: 4-Bromofluorobenzene	102		70 - 130 %Rec	12/15/2020
Client ID: MW-8					
Lab ID: BBAC2012067-04A	TPH-E (DRO)	ND		0.25 mg/L	12/15/2020
Date Sampled: 12/9/2020	Surr: Nonane	103		63 - 125 %Rec	12/15/2020
	TPH-P (GRO)	ND		0.25 mg/L	12/15/2020
	Surr: 1,2-Dichloroethane-d4	86.1		70 - 130 %Rec	12/15/2020
	Surr: Toluene-d8	89.1		70 - 130 %Rec	12/15/2020
	Surr: 4-Bromofluorobenzene	101		70 - 130 %Rec	12/15/2020
Client ID: MW-9					
Lab ID: BBAC2012067-05A	TPH-E (DRO)	0.35	K	0.25 mg/L	12/15/2020
Date Sampled: 12/9/2020	Surr: Nonane	115		63 - 125 %Rec	12/15/2020
	TPH-P (GRO)	21		4.0 mg/L	12/15/2020
	Surr: 1,2-Dichloroethane-d4	83.9		70 - 130 %Rec	12/15/2020
	Surr: Toluene-d8	90.1		70 - 130 %Rec	12/15/2020
	Surr: 4-Bromofluorobenzene	103		70 - 130 %Rec	12/15/2020

ANALYTICAL REPORT

Broadbent & Associates, Inc.
1370 Ridgewood Dr. Suite 5
Chico, CA 95973
Job: 10-08-102/PTC 389 Ellensburg

Attn: Aric Morton
Phone: 5305661400
Fax: 5305661401

Northwest Total Petroleum Hydrocarbons - Gasoline Extended (NWTPH-Gx)
Northwest Total Petroleum Hydrocarbons - Diesel Extended (NWTPH-Dx)

		Parameter	Concentration	Reporting Limit	Date Analyzed
Client ID:	MW-10				
Lab ID:	BBAC2012067-06A	TPH-E (DRO)	ND	0.25 mg/L	12/15/2020
Date Sampled:	12/8/2020	Surr: Nonane	120	63 - 125 %Rec	12/15/2020
		TPH-P (GRO)	0.42	0.25 mg/L	12/15/2020
		Surr: 1,2-Dichloroethane-d4	88.3	70 - 130 %Rec	12/15/2020
		Surr: Toluene-d8	91.5	70 - 130 %Rec	12/15/2020
		Surr: 4-Bromofluorobenzene	103	70 - 130 %Rec	12/15/2020
Client ID:	MW-11				
Lab ID:	BBAC2012067-07A	TPH-E (DRO)	ND	0.25 mg/L	12/15/2020
Date Sampled:	12/8/2020	Surr: Nonane	102	63 - 125 %Rec	12/15/2020
		TPH-P (GRO)	0.67	0.25 mg/L	12/15/2020
		Surr: 1,2-Dichloroethane-d4	96.2	70 - 130 %Rec	12/15/2020
		Surr: Toluene-d8	84.9	70 - 130 %Rec	12/15/2020
		Surr: 4-Bromofluorobenzene	97.2	70 - 130 %Rec	12/15/2020
Client ID:	MW-15				
Lab ID:	BBAC2012067-08A	TPH-E (DRO)	0.75	K 0.25 mg/L	12/15/2020
Date Sampled:	12/8/2020	Surr: Nonane	117	63 - 125 %Rec	12/15/2020
		TPH-P (GRO)	4.7	0.50 mg/L	12/15/2020
		Surr: 1,2-Dichloroethane-d4	86.1	70 - 130 %Rec	12/15/2020
		Surr: Toluene-d8	91.2	70 - 130 %Rec	12/15/2020
		Surr: 4-Bromofluorobenzene	105	70 - 130 %Rec	12/15/2020
Client ID:	MW-16				
Lab ID:	BBAC2012067-09A	TPH-E (DRO)	ND	0.25 mg/L	12/16/2020
Date Sampled:	12/8/2020	Surr: Nonane	103	63 - 125 %Rec	12/16/2020
		TPH-P (GRO)	ND	0.25 mg/L	12/15/2020
		Surr: 1,2-Dichloroethane-d4	83.7	70 - 130 %Rec	12/15/2020
		Surr: Toluene-d8	92.5	70 - 130 %Rec	12/15/2020
		Surr: 4-Bromofluorobenzene	101	70 - 130 %Rec	12/15/2020
Client ID:	RW-1				
Lab ID:	BBAC2012067-10A	TPH-E (DRO)	ND	0.25 mg/L	12/15/2020
Date Sampled:	12/9/2020	Surr: Nonane	106	63 - 125 %Rec	12/15/2020
		TPH-P (GRO)	ND	0.25 mg/L	12/15/2020
		Surr: 1,2-Dichloroethane-d4	83.7	70 - 130 %Rec	12/15/2020
		Surr: Toluene-d8	92.7	70 - 130 %Rec	12/15/2020
		Surr: 4-Bromofluorobenzene	104	70 - 130 %Rec	12/15/2020
Client ID:	RW-2				
Lab ID:	BBAC2012067-11A	TPH-E (DRO)	0.43	K 0.25 mg/L	12/16/2020
Date Sampled:	12/8/2020	Surr: Nonane	118	63 - 125 %Rec	12/16/2020
		TPH-P (GRO)	0.88	0.25 mg/L	12/15/2020
		Surr: 1,2-Dichloroethane-d4	92.5	70 - 130 %Rec	12/15/2020
		Surr: Toluene-d8	89.5	70 - 130 %Rec	12/15/2020
		Surr: 4-Bromofluorobenzene	101	70 - 130 %Rec	12/15/2020



Alpha Analytical, Inc.
 255 Glendale Ave, #21
 Sparks, Nevada 89431
 TEL: (775) 355-1044 FAX: (775) 355-0406
 Website: www.alpha-analytical.com

QC SUMMARY REPORT

WO#: 2012067
 17-Dec-20

Client: Broadbent & Associates, Inc.
Project: 10-08-102/PTC 389 Ellensburg

TestCode: TPH/E_W

Sample ID: MB-12061	SampType: MBLK	TestCode: TPH/E_W	Units: mg/L
Client ID: PBW	Batch ID: 12061	TestNo: SW8015	SW8015
Prep Date: 12/15/2020	RunNo: 10666	SeqNo: 304335	
Analysis Date: 12/15/2020			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-E (DRO)	ND	0.05									
Surr: Nonane	0.17		0.15		111	63	125				

Sample ID: LCS-12061	SampType: LCS	TestCode: TPH/E_W	Units: mg/L
Client ID: LCSW	Batch ID: 12061	TestNo: SW8015	SW8015
Prep Date: 12/15/2020	RunNo: 10666	SeqNo: 304336	
Analysis Date: 12/15/2020			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-E (DRO)	2.75	0.05	2.5	0	110	89.6	123				
Surr: Nonane	0.183		0.15		122	60	129				

Sample ID: 2012066-01AMSD	SampType: MSD	TestCode: TPH/E_W	Units: mg/L
Client ID: BatchQC	Batch ID: 12061	TestNo: SW8015	SW8015
Prep Date: 12/15/2020	RunNo: 10666	SeqNo: 304339	
Analysis Date: 12/15/2020			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-E (DRO)	2.59	0.1	2.5	0	104	79	140	2.75	5.8	8	
Surr: Nonane	0.292		0.3		97.3	68.8	128	0.335	0	0	

Sample ID: 2012066-01AMS	SampType: MS	TestCode: TPH/E_W	Units: mg/L
Client ID: BatchQC	Batch ID: 12061	TestNo: SW8015	SW8015
Prep Date: 12/15/2020	RunNo: 10666	SeqNo: 304338	
Analysis Date: 12/15/2020			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-E (DRO)	2.75	0.1	2.5	0	110	79	140				
Surr: Nonane	0.335		0.3		112	68.8	128				

Qualifiers:
 B Analyte detected in the associated Method Blan
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limit



Alpha Analytical, Inc.
 255 Glendale Ave, #21
 Sparks, Nevada 89431
 TEL: (775) 355-1044 FAX: (775) 355-0406
 Website: www.alpha-analytical.com

QC SUMMARY REPORT

WO#: 2012067
 17-Dec-20

Client: Broadbent & Associates, Inc.
Project: 10-08-102/PTC 389 Ellensburg

TestCode: TPH/P_W

Sample ID: MB-12062	SampType: MBLK	TestCode: TPH/P_W	Units: mg/L
Client ID: PBW	Batch ID: A12062B	TestNo: SW8015	
Prep Date: 12/15/2020	RunNo: 10668	SeqNo: 304384	
Analysis Date: 12/15/2020			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-P (GRO)	ND	0.05									
Surr: 1,2-Dichloroethane-d4	0.0086		0.01		85.9	69.51	130.49				
Surr: Toluene-d8	0.0092		0.01		91.8	69.51	130.49				
Surr: 4-Bromofluorobenzene	0.011		0.01		107	69.51	130.49				

Sample ID: GLCS-12062	SampType: GLCS	TestCode: TPH/P_W	Units: mg/L
Client ID: BatchQC	Batch ID: A12062B	TestNo: SW8015	
Prep Date: 12/15/2020	RunNo: 10668	SeqNo: 304383	
Analysis Date: 12/15/2020			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-P (GRO)	0.329	0.05	0.4	0	82.3	73.9	126				
Surr: 1,2-Dichloroethane-d4	0.00889		0.01		88.9	69.51	130.49				
Surr: Toluene-d8	0.00909		0.01		90.9	69.51	130.49				
Surr: 4-Bromofluorobenzene	0.0102		0.01		102	69.51	130.49				

Sample ID: 2012067-03AGSD	SampType: GSD	TestCode: TPH/P_W	Units: mg/L
Client ID: MW-7	Batch ID: A12062B	TestNo: SW8015	
Prep Date: 12/15/2020	RunNo: 10668	SeqNo: 304401	
Analysis Date: 12/15/2020			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-P (GRO)	1.79	0.25	2	0	89.6	60	125	1.75	2.7	28	
Surr: 1,2-Dichloroethane-d4	0.0402		0.05		80.4	69.51	130.49	0.0384	0	0	
Surr: Toluene-d8	0.0454		0.05		90.7	69.51	130.49	0.0442	0	0	
Surr: 4-Bromofluorobenzene	0.0513		0.05		103	69.51	130.49	0.0516	0	0	

Sample ID: 2012067-03AGS	SampType: GS	TestCode: TPH/P_W	Units: mg/L
Client ID: MW-7	Batch ID: A12062B	TestNo: SW8015	
Prep Date: 12/15/2020	RunNo: 10668	SeqNo: 304400	
Analysis Date: 12/15/2020			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH-P (GRO)	1.75	0.25	2	0	87.3	60	125				
Surr: 1,2-Dichloroethane-d4	0.0384		0.05		76.8	69.51	130.49				
Surr: Toluene-d8	0.0442		0.05		88.5	69.51	130.49				
Surr: 4-Bromofluorobenzene	0.0516		0.05		103	69.51	130.49				

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limit



Alpha Analytical, Inc.
 255 Glendale Ave, #21
 Sparks, Nevada 89431
 TEL: (775) 355-1044 FAX: (775) 355-0406
 Website: www.alpha-analytical.com

QC SUMMARY REPORT

WO#: **2012067**
 17-Dec-20

Client: Broadbent & Associates, Inc.
Project: 10-08-102/PTC 389 Ellensburg

TestCode: TPH/P_W

Sample ID: 2012067-03AGS	SampType: GS	TestCode: TPH/P_W	Units: mg/L								
Client ID: MW-7	Batch ID: A12062B	TestNo: SW8015									
Prep Date: 12/15/2020	RunNo: 10668	SeqNo: 304400									
Analysis Date: 12/15/2020											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limit



Alpha Analytical, Inc.
255 Glendale Ave, #21
Sparks, Nevada 89431
TEL: (775) 355-1044 FAX: (775) 355-0406
Website: www.alpha-analytical.com

Definition Only

WO#: 2012067
Date: 12/17/2020

Definitions:

ND = Not Detected

C = Reported concentration includes additional compounds uncharacteristic of common fuels and lubricants.

D = Reporting Limits were increased due to high concentrations of non-target analytes.

H = Reporting Limits were increased due to the hydrocarbons present in the sample.

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

K = DRO concentration may include contributions from lighter-end hydrocarbons (e.g. gasoline) that elute in the DRO range.

L = DRO concentration may include contributions from heavier-end hydrocarbons (e.g. motor oil) that elute in the DRO range.

O = Reporting Limits were increased due to sample foaming.

V = Reporting Limits were increased due to high concentrations of target analytes.

X = Reporting Limits were increased due to sample matrix interferences.

Z = DRO concentration may include contributions from lighter-end (e.g. gasoline) and heavier-end (e.g. motor oil) hydrocarbons that elute in the DRO range.

S50 = The analysis of the sample required a dilution such that the surrogate concentration was diluted below the laboratory acceptance criteria. The laboratory control sample was acceptable.

S51 = Surrogate recovery could not be determined due to the presence of co-eluting hydrocarbons.

S52 = Surrogate recovery was above laboratory acceptance limits. Probable matrix effect.

S53 = Surrogate recovery was below laboratory acceptance limits. Probable matrix effect.

S54 = Surrogate recovery was below laboratory acceptance limits.

S55 = Surrogate recovery was above laboratory acceptance limits.

WORKORDER SUMMARY

WA

Alpha Analytical, Inc.

255 Glendale Ave, #21 Sparks, Nevada 89431
 TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder: BBA2012067
 Report Due By: 17-Dec-20
 EDD Required: NO

Report Attention: Aric Morton

Client:
 Broadbent & Associates, Inc.
 1370 Ridgewood Dr. Suite 5
 Chico, CA 95973

TEL: 5305661400
 FAX: 5305661401
 ProjectNo: 10-08-102/PTC 389 Ellensburg

Date Received: 10-Dec-20

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles			Requested Tests						Sample Remarks	
				Alpha	Sub	TAT	PNA_SIM_W	TPH/E_W	TPH/P_W	VOC_W				
BBA2012067-01	MW-1	AQ	12/9/2020 10:06:00 AM	8	0	5	A - SIM	A - NWTPH-Dx	A - NWTPH-Gx	A - BTXE_C				
BBA2012067-02	MW-3	AQ	12/8/2020 4:40:00 PM	8	0	5	A - SIM	A - NWTPH-Dx	A - NWTPH-Gx	A - BTXE_C				
BBA2012067-03	MW-7	AQ	12/9/2020 8:30:00 AM	8	0	5	A - SIM	A - NWTPH-Dx	A - NWTPH-Gx	A - BTXE_C				
BBA2012067-04	MW-8	AQ	12/9/2020 9:30:00 AM	8	0	5	A - SIM	A - NWTPH-Dx	A - NWTPH-Gx	A - BTXE_C				
BBA2012067-05	MW-9	AQ	12/9/2020 10:44:00 AM	8	0	5	A - SIM	A - NWTPH-Dx	A - NWTPH-Gx	A - BTXE_C				
BBA2012067-06	MW-10	AQ	12/8/2020 6:21:00 PM	8	0	5	A - SIM	A - NWTPH-Dx	A - NWTPH-Gx	A - BTXE_C				
BBA2012067-07	MW-11	AQ	12/8/2020 7:05:00 PM	8	0	5	A - SIM	A - NWTPH-Dx	A - NWTPH-Gx	A - BTXE_C				
BBA2012067-08	MW-15	AQ	12/8/2020 3:00:00 PM	8	0	5	A - SIM	A - NWTPH-Dx	A - NWTPH-Gx	A - BTXE_C				
BBA2012067-09	MW-16	AQ	12/8/2020 5:50:00 PM	8	0	5	A - SIM	A - NWTPH-Dx	A - NWTPH-Gx	A - BTXE_C				
BBA2012067-10	RW-1	AQ	12/9/2020 11:20:00 AM	8	0	5	A - SIM	A - NWTPH-Dx	A - NWTPH-Gx	A - BTXE_C				

Comments: Total Xylenes.

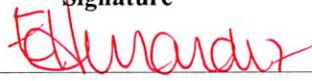
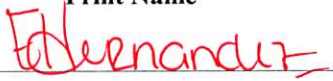
Logged in by:	Signature <i>E. Hernandez</i>	Print Name <i>E. Hernandez</i>	Company Alpha Analytical, Inc.	Date/Time 12-10-20 10:33
---------------	----------------------------------	-----------------------------------	-----------------------------------	-----------------------------

NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles			Requested Tests							
				Alpha	Sub	TAT	PNA_SIM_W	TPH/E_W	TPH/P_W	VOC_W				Sample Remarks
BBA2012067-11	RW-2	AQ	12/8/2020 3:51:00 PM	8	0	5	A - SIM	A - NWTPH-Dx	A - NWTPH-Gx	A - BTXE_C				

Comments: Total Xylenes.

Signature	Print Name	Company	Date/Time
		Alpha Analytical, Inc.	12.10.20 10.33

Logged in by:

Page 9 of 11

NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

CHAIN OF CUSTODY

04681



Billing Information:
 Company: _____
 Attn: _____
 Address: _____
 City, State, Zip: _____
 Phone Number: _____ Fax: _____

Alpha Analytical, Inc.
 Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431
Satellite Service Centers:
 Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827
 Northern NV: 350 7th St., Elko, NV 89801

Phone: 775-355-1044
 Fax: 775-355-0406
 Phone: 916-366-8089
 Phone: 775-388-7043

Page # 1 of 2

Consultant/ Client Info: Broadbent + Associates **Job and Purchase Order Info:** Job # 10-08-102
 Address: 2340 SE Gladstone St Job Name: PTC 389 Ellensburg
 City, State, Zip: Portland, OR 97202 P.O. #: _____
Report Attention/Project Manager: Name: Anie Morton **QC Deliverable Info:** EDD Required? Yes / No EDF Required? Yes / No
 Email Address: anie.m@broadbentinc.com
 Phone #: _____ Global ID: _____
 Cell #: cc: jormerout@broadbentinc.com Data Validation Packages: III or IV

Samples Collected from which State? (circle one) AR CA KS NV OR WA Other

Time Sampled (HHMM)	Date Sampled (MM/DD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	# Containers* (See Key Below)	Analysis Requested			Remarks		
							Field Filtered?					
							Yes	No				
10:06	12/9	AQ	BBA201207-01	Mw-1	std	6vcl	X		NWTPH 8x/dx	STEX 802l	PAHs 82Fo IJM	
16:40	12/8		02	Mw-3								
0830	12/9		03	Mw-7								
0930	12/9		04	Mw-8								
1044	12/9		05	Mw-9								
1821	12/8		06	Mw-10								
1905	12/9		07	Mw-11								
1500	12/8		08	Mw-15								
17:50	12/8		09	Mw-16								
11:20	12/9		10	RW-1								

ADDITIONAL INSTRUCTIONS: Please reference Code 589-605-13 on invoice to pilot

I (field sampler) attest to the validity and authenticity of this sample(s). I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. NAC 445.0636 (c) (2).

Sampled By:		Date:	Time:	Received by: (Signature/Affiliation):		Date:	Time:
Broadbent + Associates		12/09/2010	13:45	Ed Mandu		12.10.20	10:33
Relinquished by: (Signature/Affiliation):		Date:	Time:	Received by: (Signature/Affiliation):		Date:	Time:
Relinquished by: (Signature/Affiliation):		Date:	Time:	Received by: (Signature/Affiliation):		Date:	Time:

* Key: AQ - Aqueous AR - Air OT - Other So - Soil WA - Waste ** B - Brass L - Liter O - Orbo OT - Other P - Plastic S - Soil Jar T - Tedlar V - VOA

NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

