

Mr. Frank Winslow

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Subject:

**Second Quarter 2021 Groundwater Monitoring Report**

Former Chevron Station No. 98944  
1323 Lee Boulevard  
Richland, Washington  
Facility Site ID: 27223439  
Cleanup Site ID: 5798

**ENVIRONMENT**

Dear Mr. Winslow:

On behalf of Chevron Environmental Management Company (CEMC), Arcadis U.S., Inc. (Arcadis) has prepared this *Second Quarter 2021 Groundwater Monitoring Report* (Report) to document the sampling of the three remaining groundwater monitoring wells (MW-9, MW-10, and MW-11) at Former Chevron Station No. 98944 (the site; Figures 1 and 2) located at 1323 Lee Boulevard in Richland, Washington.

Date:  
July 8, 2021

Contact:  
Ada Hamilton

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206.413.6430

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Our ref:  
30064311

**SITE BACKGROUND**

The site was operated as a Standard Oil/Chevron gasoline service station from 1960 until approximately 1976. In 1976, all station features were demolished, and the site was redeveloped in 2003 with a commercial structure and associated parking areas. Currently, the site is occupied by a Subway restaurant. Previous site investigations and the site history were summarized in the *First Quarter 2020 Groundwater Monitoring Report* (Arcadis 2020).

**SITE GEOLOGY/HYDROGEOLOGY**

The topography of the general site area slopes to the east and southeast (Figure 1). The Yakima and Columbia Rivers intersect south-southeast of the site. The topography to the west contains a high ridge running north-south.

The site is located in Pasco Basin. Regional geology consists of glaciofluvial and glaciolacustrine sediments deposited over basalt bedrock of the Columbia River Group (CRA 2007). Glacial flood sediments (cobbles, gravels, and sands) were deposited on top of this and reworked by local streams and rivers, chiefly the Columbia River in this region (CRA 2007).

The site geology consists of silt and sandy gravels to 20 feet below ground surface (bgs). The soil lithology observed in monitoring well borings (MW-9 through MW-11) were consistent with historical findings; silt was encountered at 5 to 5.5 feet bgs, silt and well graded gravel was encountered at 10 and 15 feet bgs, and poorly- and well-graded gravel was encountered at 17 to 20 feet bgs.

Depth to groundwater beneath the site ranges from approximately 6 to 15 feet bgs. The general groundwater flow beneath the site appears to follow the local topography toward the east-southeast.

## **GROUNDWATER MONITORING AND SAMPLING**

Groundwater monitoring and sampling was completed at the site on May 18, 2021 by Blaine Tech Services, Inc. (Blaine Tech), including measuring depth to groundwater, collection of groundwater samples, and recording of groundwater quality parameters (recorded on field forms; Attachment 1) from monitoring wells MW-9, MW-10, and MW-11.

### **Depth to Groundwater**

Blaine Tech gauged monitoring wells MW-9, MW-10 and MW-11 using a static water level indicator prior to groundwater sample collection. The measured depth to groundwater ranged from 13.78 to 14.19 feet below top of casing (Table 1).

### **Groundwater Sampling**

Monitoring wells MW-9, MW-10, and MW-11 were purged and sampled using a peristaltic pump and dedicated tubing via low-flow methods. During the purging process, the pH, electrical conductivity, turbidity, dissolved oxygen, oxidation reduction potential, and temperature were monitored and recorded on the sampling field forms. Purging continued until these parameters stabilized. Samples were then collected in laboratory-supplied containers, labeled, placed in ice-cooled chests, and shipped under chain-of-custody protocols to Washington certified laboratory Pace Analytical Laboratory in Mount Juliet, Tennessee. Laboratory analytical results and chain-of-custody documentation are included in Attachment 2.

Groundwater samples were analyzed for the following constituents:

- Total petroleum hydrocarbons as gasoline range organics (TPH-GRO) by Northwest Method NWTPH-Gx;
- Total petroleum hydrocarbons as diesel and heavy oil range organics (TPH-DRO/HRO) by Northwest Method NWTPH-Dx both with and without silica-gel cleanup; and
- Benzene, toluene, ethylbenzene, and xylenes (BTEX) by United States Environmental Protection Agency (USEPA) Method 8260

## **QUALITY ASSURANCE/QUALITY CONTROL**

One trip blank was submitted to Pace Analytical and analyzed for BTEX by USEPA Method 8260. Analysis of the trip blank for the monitoring event did not indicate any analyte concentrations at or above laboratory reporting limits.

A field duplicate sample was also collected from monitoring well MW-10 during the event and submitted to Pace Analytical for analysis. The parent and duplicate sample results are considered comparable (Table 2).

Frank Winslow  
Washington State Department of Ecology  
July 14, 2021

## DATA INTERPRETATION AND CONCLUSIONS

Groundwater depth to water and analytical results for current and historical data are summarized in Table

1. Previous results of geochemical parameter analysis are summarized in Table 2, and results of parameters obtained in the field are summarized in Table 3. In order to establish groundwater elevations and determine the groundwater flow direction, wells MW-9, MW-10, and MW-11 were surveyed on July 1, 2021; the survey results will be included in the third quarter groundwater monitoring report. Based on local topography and historical data, the groundwater flow direction is inferred to be generally to the east-southeast.

Analytical results reported for the groundwater samples collected on May 18, 2021 are shown on Figure 2. Concentrations of TPH-GRO exceeded the MTCA Method A cleanup level (CUL) in the groundwater samples collected from MW-9, MW-10, and MW-11. TPH-DRO was also detected in all the wells; however, only the concentration in MW-10 exceeded the MTCA Method A CUL. TPH-HRO was not detected in any of the wells. Low concentrations of ethylbenzene and xylenes were detected in the wells but the concentrations did not exceed the respective MTCA Method A CULs. Analytical results obtained during the May 18, 2021 sampling event are consistent with historical sampling events.

Groundwater monitoring will continue occurring on a quarterly basis. The next groundwater monitoring event is currently scheduled for third quarter of 2021. Groundwater will be analyzed for geochemical parameters on a semi-annual basis in the first and third quarter to evaluate seasonal trends for continued MNA analysis in addition to routine quarterly analysis.

Please contact Ada Hamilton at 206.413.6430 if you should have any questions.

Sincerely,

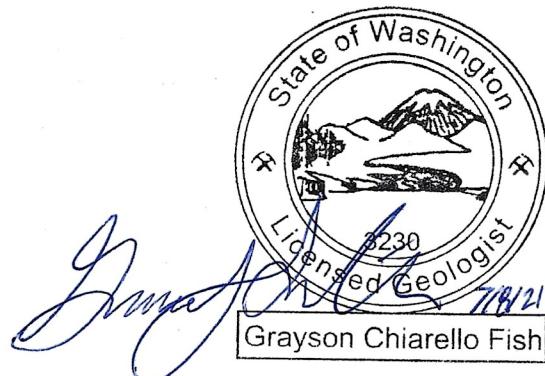
Arcadis U.S., Inc.



Ada Hamilton  
Project Manager

Copies:

James Kiernan, CEMC



Grayson Fish, L.G.  
Licensed Geologist

Frank Winslow  
Washington State Department of Ecology  
July 14, 2021

## REFERENCES

Arcadis, 2020. First Quarter 2020 Groundwater Monitoring Report, Chevron Ste No. 9-8944, 1323 Lee Boulevard, Richland, WA, March17.

Conestoga, Rover, and Associates, 2007. Soil and Groundwater Assessment Report, Former Chevron Service Station No. 9-8944, 1323 Lee Boulevard, Richland, WA, December 11.

Enclosures:

### Table

- 1 Groundwater Monitoring Data and Analytical Results
- 2 Geochemical Analytical Results
- 3 Groundwater Field Parameter Results

### Figures

- 1 Site Location Map
- 2 Groundwater Concentration Map – May 18, 2021

### Attachments

- 1 Field Sampling Forms
- 2 Laboratory Analytical Report and Chain of Custody Documentation

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**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
**Chevron Site No. 9-8944**  
**Richland, Washington**

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
**Chevron Site No. 9-8944**  
**Richland, Washington**

Well ID	Date					HYDROCARBONS				PRIMARY VOCs				LEAD		OXYGENATES		PAHs							
		TOC	DTW	GWE	TPH-GRO	TPH-DRO	TPH-DRO w/SGC	TPH-HRO	TPH-HRO w/SGC	B	T	E	X	Dissolved Lead	Total Lead	MTBE by SW8020	MTBE by SW8260B	Naphthalene	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenz(a,h)anthracene
		Units	ft	ft	ft-elev.	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
MW-3	2/21/2001	94.57	9.23	85.34	<b>6,090</b>	--	--	--	--	<b>29.9</b>	6.07	182	293	--	--	8.75	<4.00	--	--	--	--	--	--	--	
MW-3	05/22/2001 <sup>1</sup>	94.57	9.52	85.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	08/11/2001 <sup>b</sup>	94.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	11/10/2001 <sup>2</sup>	94.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	02/04/2002 <sup>2</sup>	94.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	08/24/2002 <sup>3</sup>	94.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	02/20/2003 <sup>2</sup>	94.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	08/21/2003 <sup>3</sup>	94.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	02/19/2004 <sup>3</sup>	94.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	08/10/2004 <sup>3</sup>	94.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	12/03/2004 <sup>4</sup>	94.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	02/21/2006 <sup>3</sup>	94.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	10/23/2007 <sup>2</sup>	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	10/23/2007	359.19	12.69	346.50	<b>2,800</b>	<b>610</b>	--	<250	--	0.17	0.48	78	17.1	<2.0	<b>20</b>	--	<0.14	2.3	<0.010	<0.010	<0.010	<0.021	<0.010	<0.010	
MW-4	3/24/2008	359.19	14.00	345.19	<b>1,700</b>	<b>560</b>	--	<240	--	<1.0	<1.0	89	28.9	<2.0	<b>24</b>	--	<1.0	--	--	--	--	--	--	--	
MW-4	5/12/2008	359.19	14.21	344.98	570	110	--	<95	--	<0.5	<0.5	46	<0.5	--	0.21	--	<0.5	--	--	--	--	--	--	--	
MW-4	7/28/2008	359.19	13.02	346.17	460	<b>570</b>	--	<96	--	<0.5	<0.5	5	<0.5	--	0.16	--	<0.5	--	--	--	--	--	--	--	
MW-4	11/3/2008	359.19	13.54	345.65	63	48	--	<74	--	<0.5	<0.5	<0.5	<0.5	--	0.18 J	--	<0.5	--	--	--	--	--	--	--	
MW-4	2/11/2009	359.19	13.91	345.28	<b>2,600 J</b>	<b>2,600</b>	--	<150	--	--	--	--	--	--	0.18	--	--	--	--	--	--	--	--	--	
MW-4	8/11/2010	359.19	13.67	345.52	200	<130	--	<250	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	9/9/2011	359.19	13.78	345.41	180	<29	--	<67	--	--	--	--	--	--	0.15	--	--	--	--	--	--	--	--	--	
MW-4	8/27/2012	359.19	13.72	345.47	<50	<30	--	<70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	9/23/2013	359.19	13.69	345.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-5	10/23/2007	359.07	12.42	346.65	51	<120	--	<250	--	<0.10	<0.066	0.49	0.799	<2.0	6.9	--	<0.14	0.020	<0.010	<0.010	<0.010	<0.020	<0.010	<0.010	
MW-5	3/24/2008	359.07	13.73	345.34	<50	<120	--	<240	--	<1.0	<1.0	<1.0	<2.0	<2.0	27	--	<1.0	--	--	--	--	--	--	--	
MW-5	5/12/2008	359.07	13.93	345.14	110	<77	--	<96	--	<0.5	<0.5	<0.5	<0.5	--	0.11	--	<0.5	--	--	--	--	--	--	--	
MW-5	7/28/2008	359.07	12.78	333.51	<50	<76	--	<95	--	<0.5	<0.5	<0.5	<0.5	--	0.34	--	<0.5	--	--	--	--	--	--	--	
MW-5	11/3/2008	359.07	13.30	345.77	<50	<29	--	<67	--	<0.5	<0.5	<0.5	<0.5	--	0.18 J	--	<0.5	--	--	--	--	--	--	--	
MW-5	2/10/2009	359.07	13.61	345.46	--	--	--	--	--	--	--	--	--	--	0.44	--	--	--	--	--	--	--	--	--	
MW-5	8/11/2010	359.07	13.35	345.72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-5	9/9/2011	359.07	13.35	345.72	--	--	--	--	--	--	--	--	--	--	0.16	--	--	--	--	--	--	--	--	--	
MW-5	9/23/2013	359.07	13.31	345.76	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	10/23/2007	358.85	12.14	346.71	<b>3,400</b>	<b>670</b>	--	<260	--	<0.10	<0.066	0.41	0.57	3.0	<b>27</b>	--	<0.14	2.8	<0.010	<0.010	<0.010	<0.020	<0.010	<0.010	
MW-6	3/24/2008	358.85	13.42	345.43	<b>1,100</b>	<b>830</b>	--	<240	--	<1.0	<1.0	<1.0	<2.0	<2.0	<b>67</b>	--	<1.0	--	--	--	--	--	--	--	
MW-6	5/12/2008	358.85	13.69	345.16	500	330																			

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**Groundwater Monitoring Data and Analytical Results**  
**Chevron Site No. 9-8944**  
**Richland, Washington**

Well ID	Date	HYDROCARBONS				PRIMARY VOCs				LEAD		OXYGENATES		PAHs											
		TOC	DTW	GWE	TPH-GRO	TPH-DRO	TPH-DRO w/SGC	TPH-HRO	TPH-HRO w/SGC	B	T	E	X	Dissolved Lead	Total Lead	MTBE by SW8020	MTBE by SW8260B	Naphthalene	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenz(a,h)anthracene
		Units	ft	ft	ft-elev.	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
MTCA Method A Cleanup Levels		800/1000	500	500	500	500	500	500	500	5	1,000	700	1,000	NA	15	NA	20	160	NA	NA	NA	NA	NA	NA	
MW-7	10/23/2007	359.01	12.63	346.38	73	<130	--	<260	--	<0.10	<0.066	0.14	.26	<2.0	13	--	<0.14	0.031	<0.010	<0.010	<0.010	<0.021	<0.010	<0.010	
MW-7	3/24/2008	359.01	14.00	345.01	<50	<120	--	<240	--	<1.0	<1.0	<1.0	<2.0	<2.0	33	--	<1.0	--	--	--	--	--	--	--	
MW-7	5/12/2008	359.01	14.19	344.82	<50	<76	--	<95	--	<0.5	<0.5	<0.5	<0.5	--	0.070	--	<0.5	--	--	--	--	--	--	--	
MW-7	7/28/2008	359.01	333.15	<50	<78	--	<97	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	11.2	--	<0.5	--	--	--	--	--	--	--	
MW-7	11/3/2008	359.01	13.54	345.47	<50	<29	--	<67	--	<0.5	<0.5	<0.5	<0.5	--	1.3	--	<0.5	--	--	--	--	--	--	--	
MW-7	2/10/2009	359.01	13.89	345.12	--	--	--	--	--	--	--	--	--	--	0.49	--	--	--	--	--	--	--	--	--	
MW-7	8/11/2010	359.01	13.61	345.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	9/9/2011	359.01	13.71	345.30	--	--	--	--	--	--	--	--	--	--	0.60	--	--	--	--	--	--	--	--	--	
MW-7	9/23/2013	359.01	13.70	345.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	10/23/2007	359.29	12.79	346.50	33,000	4,000	--	270	--	0.12	16	1,300	2,280	<2.0	22	--	<0.14	190	<0.010	<0.010	<0.010	<0.021	<0.010	<0.010	
MW-8	3/24/2008	359.29	14.01	345.28	13,000	3,000	--	<240	--	<1.0	15	610	821	<2.0	54	--	<1.0	320	--	--	--	--	--	--	--
MW-8	5/12/2008	359.29	14.31	344.98	18,000 J	4,600	--	<970	--	<1	17	640	1,100	--	0.44	--	<1	410	--	--	--	--	--	--	--
MW-8	7/28/2008	359.29	13.13	346.16	16,000	8,000	--	<490	--	<0.5	9	800	1,300	--	1.2	--	<0.5	500	--	--	--	--	--	--	--
MW-8	11/3/2008	359.29	13.65	345.64	15,000	6,900	--	<670	--	<0.5	10	760	520	--	1.6	--	<0.5	410	--	--	--	--	--	--	--
MW-8	2/11/2009	359.29	13.92	345.37	4,800	550	--	<66	--	<0.5	0.8	200	70	--	0.24	--	--	110	--	--	--	--	--	--	--
MW-8	8/11/2010	359.29	13.74	345.55	9,900	1,000	--	<250	--	<2.0	2.9	620	973	--	--	--	--	300	--	--	--	--	--	--	--
MW-8	9/9/2011	359.29	13.85	345.44	2,100 [2,200]	130 [120]	--	<67 [<67]	--	<0.5 [<0.5]	0.5 [0.6]	45 [46]	4 [4]	--	0.29 [0.31]	--	--	24 [24]	--	--	--	--	--	--	--
MW-8	8/27/2012	359.29	13.83	345.46	3,000 [2,900]	200 [360]	--	<67 [<69]	--	<0.5 [<0.5]	<0.5 [0.5]	39 [34]	24 [23]	--	--	--	--	31 [29]	--	--	--	--	--	--	--
MW-8	9/23/2013	359.29	13.60	345.69	4,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	10/9/2018	--	13.73	--	7,800	960	420	<100	<70	<1.0	2.0	240	19	<1.1	<1.1	--	--	--	--	--	--	--	--	--	
MW-9	12/12/2018	--	14.07	--	7,600	760	330	<100	<67	<0.20	3.0	59	21	<1.1	<1.1	--	--	--	--	--	--	--	--	--	
MW-9	9/19/2019	--	13.28	--	620	370	--	<350	--	--	--	--	--	--	<4.0	--	--	--	--	--	--	--	--	--	
MW-9	2/19/2020	--	14.33	--	4,400	1,400	--	160 J	--	<0.53	1.2J	28	11	--	<1.0	--	--	--	--	--	--	--	--	--	
MW-9	5/20/2020	--	14.64	--	2,600	1,300	1,200	160 J *	<98 *	<0.24	<0.39	1.5 J	<0.39	--	<1.0	--	--	--	--	--	--	--	--	--	--
MW-9	8/27/2020	--	13.78	--	770	450	--	280 J B	--	<0.24	<0.39	<0.50	<0.39	--	<1.0	--	<0.93	--	--	--	--	--	--	--	
MW-9	11/5/2020	--	13.75	--	3,700	1,400	1,200	170 J	<92	<0.24	0.69 J	1. 6 J	1.9 J	--	<1.0	--	4.1 *	--	--	--	--	--	--	--	--
MW-9	2/24/2021	--	13.68	--	4,200	1,400	--	150 J	--	0.24	1.1 J	59	11	--	--	--	150 *+	--	--	--	--	--	--	--	--
MW-9	5/18/2021	--	14.19	--	1,550	464	257	<250	<250	<0.941	<0.278	0.631 J	0.490 J	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	10/9/2018	--	13.47	--	9,500 [9,400]	740 [680]	430 [430]	<110 [<100]	<69 [<68]	<1.0 [<1.0]	<1.0 [<1.0]	91 [86]	<5.0 [<5.0]	8.3 [8.6]	7.6 [8.2]	--	--	--	--	--	--	--	--	--	--
MW-10	12/12/2018	--	13.72	--	8,000 [7,900]	540 [540]	350 [400]	<100 [<100]	<66 [<66]	<0.20 [<0.20]	0.40 [0.50]	81 [85]	4.0 [4.0]	2.0 [1.8]	2.2 [2.1]	--	--	--	--	--	--	--	--	--	--
MW-10	9/19/2019	--	12.88	--	190 J [250]	290 J [290 J]																			

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
**Chevron Site No. 9-8944**  
**Richland, Washington**

Well ID	Date	HYDROCARBONS				PRIMARY VOCs				LEAD		OXYGENATES		PAHs											
		TOC	DTW	GWE	TPH-GRO	TPH-DRO	TPH-DRO w/SGC	TPH-HRO	TPH-HRO w/SGC	B	T	E	X	Dissolved Lead	Total Lead	MTBE by SW8020	MTBE by SW8260B	Naphthalene	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenz(a,h)anthracene
		Units	ft	ft	ft-elev.	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
MW-11	9/19/2019	--	12.95	--	470	310	--	120 J	--	--	--	--	--	--	<4.0	--	--	--	--	--	--	--	--	--	
MW-11	2/19/2020	--	14.09	--	2,100	460	--	<110	--	<0.53	<0.39	<0.50	<0.39	--	1.4 J	--	--	--	--	--	--	--	--	--	
MW-11	5/20/2020	--	14.33	--	2,100	1,600	1,400	130 J *	130 J *	<0.24	0.77 J	<0.50	<0.39	--	<1.0	--	--	--	--	--	--	--	--	--	
MW-11	8/27/2020	--	13.59	--	1,600	1,100	--	400 B	--	<0.24	0.88 J	<0.50	<0.39	--	<1.0	--	--	--	1.9 J	--	--	--	--	--	
MW-11	11/5/2020	--	13.34	--	1,800	920	740	370	140 J	<0.24	0.71 J	<0.50	<0.39	--	<1.0	--	--	<0.93 *	--	--	--	--	--	--	
MW-11	2/24/2021	--	13.45	--	1,000	430	--	120 J	--	0.24	0.39	0.50	0.39	--	--	--	--	6.9 *+	--	--	--	--	--	--	
MW-11	5/18/2021	--	13.91	--	1,540	490	425	<250	<250	<0.0941	<0.278	0.154 J	0.330 J	--	--	--	--	--	--	--	--	--	--	--	
Trip Blank	2/27/2000	--	--	--	<50.0	--	--	--	<0.500	<0.500	<0.500	<1.00	--	--	<5.00	--	--	--	--	--	--	--	--	--	
Trip Blank	2/21/2001	--	--	--	<50.0	--	--	--	<0.500	<0.500	<0.500	<1.00	--	--	<5.00	--	--	--	--	--	--	--	--	--	
Trip Blank	5/22/2001	--	--	--	<50.0	--	--	--	<0.500	<0.500	<0.500	<1.00	--	--	<5.00	--	--	--	--	--	--	--	--	--	
Trip Blank	8/11/2001	--	--	--	<50.0	--	--	--	<0.500	<0.500	<0.500	<1.50	--	--	<5.00	--	--	--	--	--	--	--	--	--	
Trip Blank	11/10/2001	--	--	--	<100	--	--	--	<0.500	<2.00	<1.00	<1.50	--	--	<5.00	--	--	--	--	--	--	--	--	--	
Trip Blank	2/4/2002	--	--	--	<50.0	--	--	--	<0.500	<0.500	<0.500	<1.00	--	--	<5.00	--	--	--	--	--	--	--	--	--	
Trip Blank	8/24/2002	--	--	--	<50	--	--	--	<0.50	<0.50	<0.50	<1.5	--	--	<2.5	--	--	--	--	--	--	--	--	--	
Trip Blank	2/20/2003	--	--	--	<50	--	--	--	<0.50	<0.50	<0.50	<1.5	--	--	<2.5	--	--	--	--	--	--	--	--	--	
Trip Blank	8/21/2003	--	--	--	<50	--	--	--	<0.5	<0.5	<0.5	<1.5	--	--	<2.5	--	--	--	--	--	--	--	--	--	
Trip Blank	2/19/2004	--	--	--	<50	--	--	--	<0.5	<0.5	<0.5	<1.5	--	--	<2.5	--	--	--	--	--	--	--	--	--	
Trip Blank	8/10/2004	--	--	--	<50	--	--	--	<0.5	<0.5	<0.5	<1.5	--	--	<2.5	--	--	--	--	--	--	--	--	--	
Trip Blank	12/3/2004	--	--	--	<48	--	--	--	<0.5	<0.5	<0.5	<1.5	--	--	<2.5	--	--	--	--	--	--	--	--	--	
Trip Blank	10/23/2007	--	--	--	<50	--	--	--	<1.0	<1.0	<1.0	<2.0	--	--	--	--	--	--	--	--	--	--	--	--	
Trip Blank	3/24/2008	--	--	--	<50	--	--	--	<1.0	<1.0	<1.0	<2.0	--	--	--	--	--	--	--	--	--	--	--	--	
Trip Blank	5/12/2008	--	--	--	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	--	--	
Trip Blank	7/28/2008	--	--	--	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	--	--	
Trip Blank	11/3/2008	--	--	--	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	--	--	
Trip Blank	2/10/2009	--	--	--	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	--	--	
Trip Blank	8/11/2010	--	--	--	<50	--	--	--	<2.0	<2.0	<2.0	-	--	--	--	--	--	--	--	--	--	--	--	--	
Trip Blank	9/9/2011	--	--	--	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	--	--	
Trip Blank	8/27/2012	--	--	--	<50	--	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	--	--	
Trip Blank	8/27/2012	--	--	--	<50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Trip Blank	9/23/2013	--	--	--	<50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Trip Blank	10/9/2018	--	--	--	--	--	--	--	<0.20	<0.20	<0.20	<1.0	--	--	--	--	--	--	--	--	--	--	--	--	
Trip Blank	9/19/2019	--	--	--	<100	--	--	--	--	--	--	--	--	--	--	<0.080	--	--	<1	--	--	--	--	--	
Trip Blank	8/27/2020	--	--	--	--	--	--	--	<0.24	<0.39	<0.50	<0.39	--	--	--	--	0.93	--	--	--	--	--	--	--	
Trip Blank	11/5/2020	--	--	--	<70	--	--	--	<0.24	<0.39	<0.50	<0.39	--	--	--	--	0.93	--	--	--	--	--	--	--	
Trip Blank	02/24/2021	--	--	--	--	--	--	--	0.24	0.39	0.50	0.39	--	--	--	--	0.93	--	--	--	--	--	--	--	
Trip Blank	05/18/2021	--	--	--	--	--	--	--	<0.0941	<0.278	<0.137	0.222 J	--	--	--	--	--	--	--	--	--	--	--	--	
Equipment Blank	9/9/2011	--	--	--	<50	<29																			

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
**Chevron Site No. 9-8944**  
**Richland, Washington**

Well ID	Date	TOC	DTW	GWE	HYDROCARBONS				PRIMARY VOCs				LEAD		OXYGENATES		PAHs						
					TPH-GRO	TPH-DRO	TPH-HRO	TPH-HRO w/SGC	B	T	E	X	Dissolved Lead	Total Lead	MTBE by SW8020	MTBE by SW8260B	Naphthalene	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene
MTCA Method A Cleanup Levels					800/1000	500	500	500	500	5	1,000	700	1,000	NA	15	NA	20	160	NA	NA	NA	NA	NA
	Units	ft	ft	ft-elev.	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L

**LEGEND:**

MTCA = Model Toxics Control Act Cleanup Regulations [WAC 173-340-720(2)(a)(1), as amended February 2001]

NA = No applicable MTCA Method A cleanup level

TOC = Top of Casing

DTW = Depth to Water

GWE = Groundwater elevation

(ft-elev) = Feet Above Elevation

ft = Feet

µg/L = Micrograms per Liter

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

TPH-HRO = Total Petroleum Hydrocarbons - Oil Range Organics

BTEX = Benzene, toluene, ethylbenzene, xylenes

VOCs = Volatile organic compounds

MTBE = Methyl tertiary butyl ether

PAHs = Polycyclic aromatic hydrocarbons

-- = Not available / not applicable

< = Not detected above laboratory method detection limit

J = Result is < RL but ≥ to the MDL and the concentration is an approximate value

B = Compound was found in the blank and sample

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

w/SGC = with Silica Gel Cleanup

<sup>1</sup> = Not sampled due to insufficient water

<sup>2</sup> = Inaccessible

<sup>3</sup> = Dry

<sup>4</sup> = Destroyed

<sup>5</sup> = Inaccessible - Paved over

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

**NOTES:**

Monitoring wells MW-9, MW-10 and MW-11 have not been surveyed.

Concentrations in bold exceed MTCA Method A Cleanup Levels

**Table 2**  
**Geochemical Analytical Results**  
**Chevron Site No. 9-8944**  
**Richland, Washington**

Well ID	Date	TOC	DTW	GWE	Methane	Nitrate	Sulfate	Total Manganese	Dissolved Manganese	Total Iron	Dissolved Iron
	Units	ft	ft	ft-elev.	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-9	5/20/2020	--	14.64	--	51	570	79,000	1,600	--	--	--
MW-9	8/27/2020	--	13.78	--	--	<20	19,000 F1	560	580	1,300	1000
MW-9	11/5/2020	--	13.75	--	1,200	<20	1,000 J	1,600.0	1,700	2,200	2,000
MW-9	2/24/2021	--	13.68	--	3,200	560	830 J	1,200	1,300	1,400 J	1,600 J
MW-10	5/20/2020	--	14.31	--	980 [1,200]	600 [640 H]	410,000 [380,000]	3,500 [3,400]	--	--	--
MW-10	8/27/2020	--	13.32	--	--	4,800 [4,600]	170,000 [160,000]	520 [780]	950 [890]	560 J [810 J]	760 J [670 J]
MW-10	11/5/2020	--	13.46	--	280[280]	2,100[2,200]	79,000[80,000]	760[740]	790[760]	1,200[1,200]	1,300[1,200]
MW-10	02/24/2021	--	13.37	--	520[470]	1,100[1,100]	56,000[56,000]	920[970]	1,000[1,100]	2,500[2,600]	2,800[2,700]
MW-11	5/20/2020	--	14.33	--	1400	740	97,000	2,900	--	--	--
MW-11	8/27/2020	--	13.59	--	--	1,100	52,000	1,900	2,000	4,500	3,900
MW-11	11/5/2020	--	13.34	--	460	<20	23,000	2,000	1,900	3,200	2,900
MW-11	02/24/2021	--	13.45	--	390	790	18,000	1,500	1,500	2,200 J	2,000 J

**LEGEND:**

TOC = Top of Casing  
 DTW = Depth to Water  
 GWE = Groundwater elevation  
 (ft-elev) = Feet Above Elevation  
 ft = Feet  
 µg/L = Micrograms per Liter  
 -- = Not available / not applicable  
 < = Not detected above laboratory method detection limit  
 J = Result is < RL but ≥ to the MDL and the concentration is an approximate value

**NOTES:**

Monitoring wells MW-9, MW-10 and MW-11 have not been surveyed.

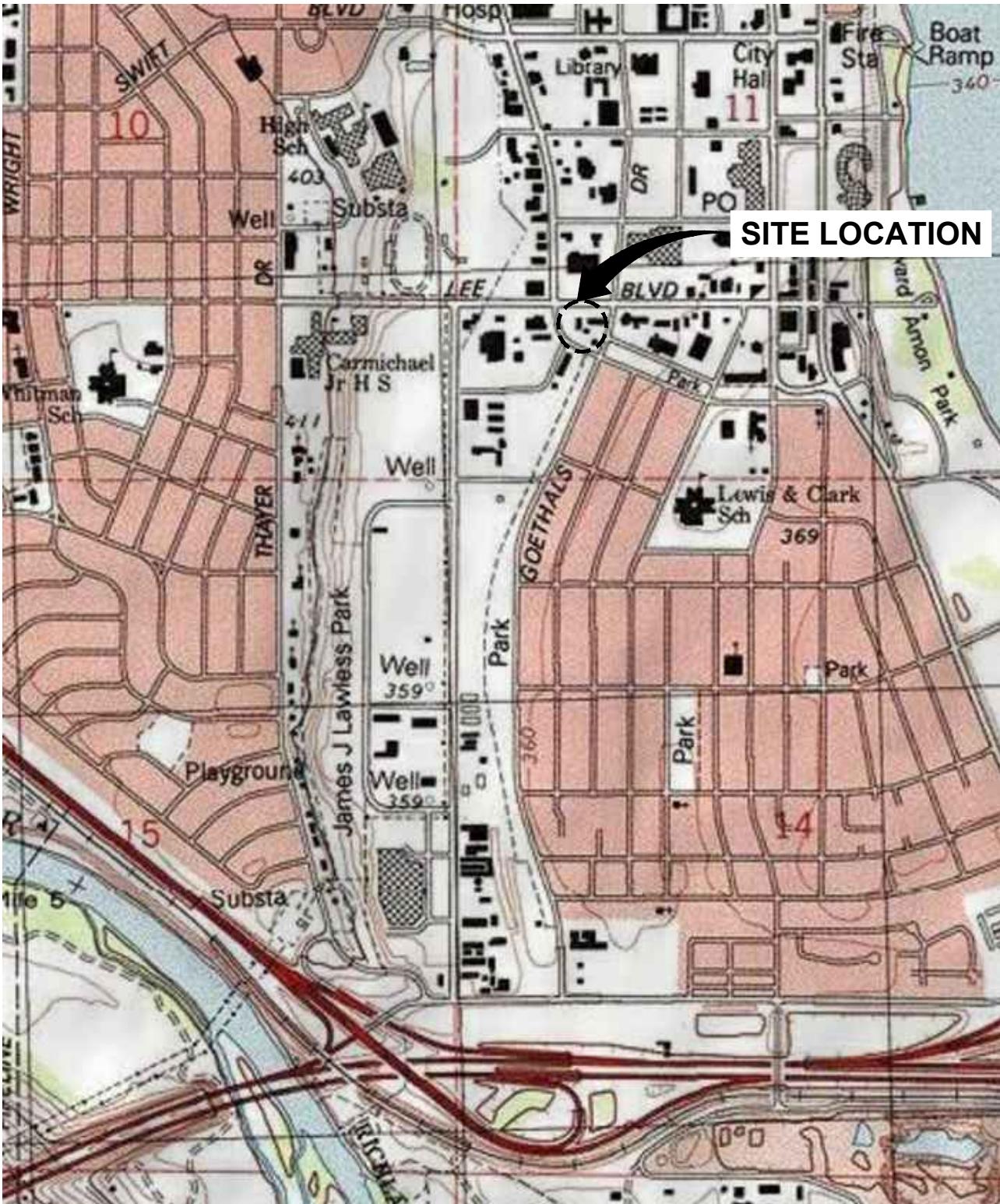
**Table 3**  
**Groundwater Field Sampling Results**  
**Chevron Site No. 9-8944**  
**Richland, Washington**

Well ID	Date	pH	Conductivity	Dissolved Oxygen	ORP	Turbidity	Ferrous Iron
		--	mS/cm	mg/L	mV	NTU	mg/L
MW-9	2/19/2020	6.76	0.665	3.16	83.9	9	--
MW-9	5/20/2020	7.04	0.939	0.58	-74.9	7	0.0
MW-9	8/27/2020	7.17	0.579	1.02	7.5	16	0.0
MW-9	11/5/2020	7.23	0.929	0.51	-80.9	16	--
MW-9	2/24/2021	7.30	0.56	0.63	-105.7	14	0.8
MW-9	5/18/2021	7.12	0.702	0.35	-120.7	16	--
MW-10	2/19/2020	4.30	0.824	2.56	158.3	11	--
MW-10	5/20/2020	6.85	1.925	0.3	-90.1	17	0.0
MW-10	8/27/2020	7.16	1.62	0.27	12.5	8	0.0
MW-10	11/5/2020	7.11	1.91	0.44	-103.4	10	--
MW-10	2/24/2021	7.05	0.814	0.9	-67.6	48	2.4
MW-10	5/18/2021	7.04	1.39	0.36	-112.9	32	--
MW-11	2/19/2020	4.60	0.946	2.63	168.1	31	--
MW-11	5/20/2020	6.94	1.48	0.31	-90.9	61	0.0
MW-11	8/27/2020	7.09	1.45	0.22	-83.2	10	0.0
MW-11	11/5/2020	7.19	1.40	0.49	-56.7	11	--
MW-11	2/24/2021	7.07	0.743	0.69	-90	14	0.6
MW-11	5/18/2021	6.8	1.08	0.37	-117	60	--

**Notes:**

mg/L = Milligrams per liter  
mS/cm = millSiemens per centimeter  
mV = millivolts  
NTU = Nephelometric Turbidity Unit  
-- = not analyzed

: ][ i fYg



REFERENCE: BASE MAP CREATED WITH TOPO! - RICHLAND, US TOPO.

0 1,500' 3,000'

Approximate Scale: 1 in. = 1,500 ft.



CHEVRON SERVICE SITE 9-8944  
1323 LEE BOULEVARD  
RICHLAND, WASHINGTON

### SITE LOCATION MAP

 ARCADIS

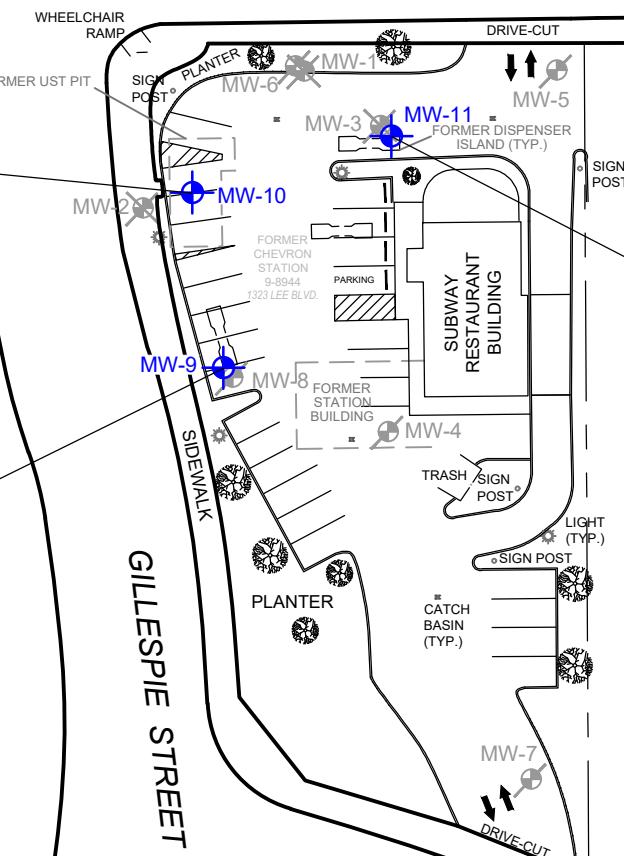
FIGURE  
1

MW-10	
Date	5/18/2021
TPH-GRO	<b>3,200 [3,780]</b>
TPH-DRO	<b>771 [812]</b>
TPH-HRO	<250 [<250]
B	<0.941 [<0.0941]
T	<0.278 [<0.278]
E	15.1 [21.1]
X	0.875 J [1.40 J]

MW-9	
Date	5/18/2021
TPH-GRO	<b>1,550</b>
TPH-DRO	464
TPH-HRO	<250
B	<0.941
T	<0.278
E	0.631 J
X	0.490 J

STEVENS DR

LEE BOULEVARD



MW-11	
Date	5/18/2021
TPH-GRO	<b>1,540</b>
TPH-DRO	490
TPH-HRO	<250
B	<0.0941
T	<0.278
E	0.154 J
X	0.330 J

RAILROAD STREET

GILLESPIE STREET

GILLESPIE STREET

GOETHALS STREET

HARDING STREET

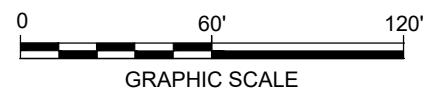
#### LEGEND:

- MW-10 GROUNDWATER MONITORING WELL LOCATION
- MW-3 ABANDONED WELL LOCATIONS
- MW-2 DESTROYED MONITORING WELL LOCATION
- [3,780] DUPLICATE SAMPLE CONCENTRATIONS ( $\mu\text{g/L}$ )
- <0.941 CONCENTRATIONS NOT DETECTED ABOVE LABORATORY METHOD DETECTION LIMIT
- J ESTIMATED VALUE
- BOLD** BOLD AND HIGHLIGHTED VALUES ARE GREATER THAN THEIR RESPECTIVE MTCA METHOD A CLEANUP LEVEL
- \* ECOLOGY MODEL TOXICS CONTROL ACT (MTCA) METHOD A CLEANUP LEVELS (CULs) FOR GROUNDWATER, WAC CHAPTER 173-340-900, TABLE 720-1
- 800/1,000 GRO MTCA METHOD A CUL WITH B PRESENT IS 800 ( $\mu\text{g/L}$ ) AND WITHOUT IS 1,000 ( $\mu\text{g/L}$ )
- TPH TOTAL PETROLEUM HYDROCARBONS

Well ID	
Constituent	MTCA CULs*
TPH-GRO	TPH as gasoline <b>800/1,000</b>
TPH-DRO	TPH as diesel <b>500</b>
TPH-HRO	TPH as motor oil <b>500</b>
B	Benzene <b>5</b>
T	Toluene <b>1,000</b>
E	Ethylbenzene <b>700</b>
X	Xylenes (total) <b>1,000</b>

#### NOTES:

1. BASE MAP PROVIDED BY CONESTOGA-ROVERS & ASSOCIATES, DATED 11/3/2008, AT A SCALE OF 1"=30'.
2. ALL SITE FEATURES AND LOCATIONS ARE APPROXIMATE.
3. ALL VALUES REPORTED IN MICROGRAMS PER LITER ( $\mu\text{g/L}$ ).



CHEVRON SERVICE STATION 9-8944  
1323 LEE BOULEVARD  
RICHLAND, WASHINGTON

GROUNDWATER CONCENTRATIONS MAP  
MAY 18, 2021

# **Attachment 1**

**Field Sampling Forms**

## Groundwater Gauging Log

<b>Project Number</b>	30064311						
<b>Client:</b>	Chevron						
<b>Site ID:</b>	98944						
<b>Site Location:</b>	Kennewick, Washington						
<b>Measuring Point:</b>	Top of Casing						
<b>Date(s):</b>	05/18/2021						
<b>Sampler(s):</b>	Lee Bures						
<b>Gauging Equipment:</b>	Water Level Meter						
Well ID	Date	Gauging Time	Static Water Level (ft bmp)	Depth to Product (ft bmp)	Total Depth (ft bmp)	PID Reading (ppm)	Comments
MW-9	05/18/2021	11:05	14.19	ND	18.37	--	--
MW-10	05/18/2021	23:02	13.78	ND	18.12	--	--
MW-11	05/18/2021	11:13	13.91	ND	18.05	--	--

ft-bmp = feet below measuring point

ND = Not Detected

PID = Photoionization Detector Reading

ppm = parts per million

-- = Not Recorded

<b>Project Number</b>	30064311	<b>Well ID</b>	MW-10	<b>Date</b>		5/18/2021				
<b>Site Location</b>	Kennewick, Washington	<b>Site ID</b>	98944	<b>Weather (°F)</b>	Clear	<b>Sampled by</b>	Lee Bures			
<b>Measuring Point Description</b>	Top of Casing	<b>Screen Depth Interval (ft-bmp)</b>	8 to 18	<b>Casing Diameter (in.)</b>	2	<b>Well Casing Material</b>	--			
<b>Static Water Level (ft-bmp)</b>	13.78	<b>Total Depth (ft-bmp)</b>	18.12	<b>Water Column (ft)</b>	4.34	<b>Gallons in Well</b>	0.71			
<b>Water Quality Meter Make/Model</b>	YSI 556 MP5	<b>Purge Method</b>	Low-Flow	<b>Sample Method</b>		Grab				
<b>Sample Time</b>	12:22	<b>Well Volumes Purged</b>	1.12	<b>Sample ID</b>	MW-10-210518	<b>Evacuation Equipment</b>	Peristaltic			
<b>Purge Start</b>	12:04	<b>Gallons Purged</b>	0.79	<b>Duplicate ID</b>	Duplicate-1-210518					
<b>Purge End</b>	12:19	<b>Total Purge Time (h:m)</b>	0:15							
Time	Rate (ml/min)	Depth to Water (ft)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
									Color	Odor
12:07	200	13.91	7.02	1.45	50.0	0.29	16.96	-77.4	Clear	--
12:10	200	13.91	7.01	1.44	38.0	0.35	16.82	-98.5	Clear	--
12:13	200	13.91	7.06	1.43	34.0	0.36	16.76	-105.1	Clear	--
12:16	200	13.91	7.05	1.40	32.0	0.36	16.79	-109.6	Clear	--
12:19	200	13.91	7.04	1.39	32.0	0.36	16.70	-112.9	Clear	--

**Comments:** None

#### Well Casing Volume Conversion

Well diameter (in.) = 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47  
 gallons per foot 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

#### Sample Information

Sample ID: MW-10-210518 Sample Time: 12:22 Sample Depth (ft-bmp): 16

Analytes and Methods: See Chain-of-Custody.

ft-bmp = feet below measuring point  
 in. = inches  
 ft = feet  
 mL/min = milliliters per minute

mS/cm = millisiemens per centimeter  
 NTU = Nephelometric Turbidity Unit  
 mg/L = milligrams per liter  
 PVC = Polyvinyl Chloride

mV = millivolts  
 °F = degrees Fahrenheit  
 °C = degrees Celsius  
 -- = Not Recorded

<b>Project Number</b>	30064311	<b>Well ID</b>	MW-11	<b>Date</b>		5/18/2021				
<b>Site Location</b>	Kennewick, Washington	<b>Site ID</b>	98944	<b>Weather (°F)</b>	Clear	<b>Sampled by</b>	Lee Bures			
<b>Measuring Point Description</b>	Top of Casing	<b>Screen Depth Interval (ft-bmp)</b>	8 to 18	<b>Casing Diameter (in.)</b>	2	<b>Well Casing Material</b>	--			
<b>Static Water Level (ft-bmp)</b>	13.91	<b>Total Depth (ft-bmp)</b>	18.05	<b>Water Column (ft)</b>	4.14	<b>Gallons in Well</b>	0.67			
<b>Water Quality Meter Make/Model</b>	YSI 556 MP5	<b>Purge Method</b>	Low-Flow	<b>Sample Method</b>		Grab				
<b>Sample Time</b>	11:42	<b>Well Volumes Purged</b>	1.18	<b>Sample ID</b>	MW-11-210518	<b>Evacuation Equipment</b>	Peristaltic			
<b>Purge Start</b>	11:24	<b>Gallons Purged</b>	0.79	<b>Duplicate ID</b>	--					
<b>Purge End</b>	11:39	<b>Total Purge Time (h:m)</b>	0:15							
Time	Rate (ml/min)	Depth to Water (ft)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
									Color	Odor
11:27	200	13.91	6.85	1.12	49.0	0.57	17.14	-108.2	Clear	--
11:30	200	13.91	6.83	1.11	57.0	0.34	17.13	-109.9	Clear	--
11:33	200	13.91	6.80	1.10	62.0	0.35	17.22	-113.9	Clear	--
11:36	200	13.91	6.81	1.08	60.0	0.38	17.14	-115.9	Clear	--
11:39	200	13.91	6.80	1.08	60.0	0.37	17.14	-117	Clear	--

**Comments:** None

#### Well Casing Volume Conversion

Well diameter (in.) =  $1 = 0.04$   $1.5 = 0.09$   $2.5 = 0.26$   $3.5 = 0.50$   $6 = 1.47$   
 gallons per foot  $1.25 = 0.06$   $2 = 0.16$   $3 = 0.37$   $4 = 0.65$

#### Sample Information

Sample ID:	MW-11-210518	Sample Time:	11:42	Sample Depth (ft-bmp):	16
Analytes and Methods:	See Chain-of-Custody.				

ft-bmp = feet below measuring point  
 in. = inches  
 ft = feet  
 mL/min = milliliters per minute

mS/cm = millisiemens per centimeter  
 NTU = Nephelometric Turbidity Unit  
 mg/L = milligrams per liter  
 PVC = Polyvinyl Chloride

mV = millivolts  
 °F = degrees Fahrenheit  
 °C = degrees Celsius  
 -- = Not Recorded

<b>Project Number</b>	30064311	<b>Well ID</b>	MW-9	<b>Date</b>		5/18/2021				
<b>Site Location</b>	Kennewick, Washington	<b>Site ID</b>	98944	<b>Weather (°F)</b>	Clear	<b>Sampled by</b>	Lee Bures			
<b>Measuring Point Description</b>	Top of Casing	<b>Screen Depth Interval (ft-bmp)</b>	8 to 18	<b>Casing Diameter (in.)</b>	2	<b>Well Casing Material</b>	--			
<b>Static Water Level (ft-bmp)</b>	14.19	<b>Total Depth (ft-bmp)</b>	18.37	<b>Water Column (ft)</b>	4.18	<b>Gallons in Well</b>	0.68			
<b>Water Quality Meter Make/Model</b>	Hach 2100Q, YSI 556 MP5	<b>Purge Method</b>	Low-Flow	<b>Sample Method</b>		Grab				
<b>Sample Time</b>	13:15	<b>Well Volumes Purged</b>	1.17	<b>Sample ID</b>	MW-9-210518	<b>Evacuation Equipment</b>	Peristaltic			
<b>Purge Start</b>	00:57	<b>Gallons Purged</b>	0.79	<b>Duplicate ID</b>	--					
<b>Purge End</b>	13:12	<b>Total Purge Time (h:m)</b>	12:15							
Time	Rate (ml/min)	Depth to Water (ft)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
									Color	Odor
13:00	200	14.19	7.21	0.718	25.0	0.31	18.75	-91.6	Clear	--
13:03	200	14.19	7.18	0.710	20.0	0.32	18.59	-106.8	Clear	--
13:06	200	14.19	7.15	0.701	16.0	0.34	18.70	-114.2	Clear	--
13:09	200	14.19	7.12	0.703	16.0	0.35	18.94	-117.5	Clear	--
13:12	200	14.19	7.12	0.702	16.0	0.35	18.86	-120.7	Clear	--

**Comments:** None

#### Well Casing Volume Conversion

Well diameter (in.) =  $1 = 0.04$   $1.5 = 0.09$   $2.5 = 0.26$   $3.5 = 0.50$   $6 = 1.47$   
 gallons per foot  $1.25 = 0.06$   $2 = 0.16$   $3 = 0.37$   $4 = 0.65$

#### Sample Information

Sample ID: MW-9-210518      Sample Time: 13:15      Sample Depth (ft-bmp): 16

Analytes and Methods: See Chain-of-Custody.

ft-bmp = feet below measuring point  
 in. = inches  
 ft = feet  
 mL/min = milliliters per minute

mS/cm = millisiemens per centimeter  
 NTU = Nephelometric Turbidity Unit  
 mg/L = milligrams per liter  
 PVC = Polyvinyl Chloride

mV = millivolts  
 °F = degrees Fahrenheit  
 °C = degrees Celsius  
 -- = Not Recorded



# WELLHEAD INSPECTION FORM

Client: Arcabis

Site: 1323 Lee Blue, Richland, WA

Date: 5/18/12

Job #: 210512-AWI

Technician: Andre Lauer

Page 1 of 1

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

NOTES:

## TEST EQUIPMENT CALIBRATION LOG

CHEVRON-WASHINGTON/OREGON TYPE A BILL OF LADING

**BILL OF LADING**

SOURCE RECORD FOR PURGEWATER RECOVERED FROM GROUNDWATER WELLS AT CHEVRON FACILITIES IN THE STATE OF WASHINGTON AND OREGON. THE PURGE- WATER WHICH HAS BEEN RECOVERED FROM GROUND- WATER WELLS IS COLLECTED BY THE CONTRACTOR AND HAULED TO THEIR FACILITY IN KENT, WASHINGTON FOR TEMPORARILY HOLDING PENDING TRANSPORT BY OTHERS TO FINAL DESTINATION.

The contractor performing this work is BLAINE TECH SERVICES, INC. (BLAINE TECH), 22727 72<sup>nd</sup> Ave South, Suite D - 102, Kent, WA 98032. BLAINE TECH is authorized by Chevron Environmental Management Company (CHEVRON EMC) to recover, collect, apportion into loads, and haul the purgewater that is drawn from wells at the CHEVRON EMC facility indicated below and to deliver that purgewater to BLAINE TECH for temporarily holding. Transport routing of the purgewater may be direct from one CHEVRON EMC facility to BLAINE TECH; from one CHEVRON EMC facility to BLAINE TECH via another CHEVRON EMC facility; or any combination thereof. The well purgewater is and remains the property of CHEVRON EMC.

This **Source Record BILL OF LADING** was initiated to cover the recovery of Non-Hazardous Well Purgewater from wells at the Chevron facility described below:

CHEVRON # 9-8911  
132  
Street number

Leel Bivv  
street name  
city  
state

WELL I.D.	GALS.	WELL I.D.	GALS.
MJU-9	/	/	/
AW-10	/	/	/
MJU-11	/	/	/
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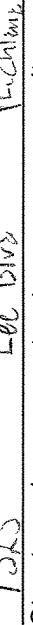
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adjustments /  
added equip.  
rinse water / .25

TOTAL GALS. 3.25  
RECOVERED 3.25

loaded onto  
BTS vehicle # 9

BTS event # 20518-A1

time 14:00 date 5/18/12

signature 

Chevron Project Manager

Street number 132

city Leel Bivv

state WA

Blaine Tech Services, Inc.

## Permit To Work

for Chevron EMC Sites

Client: Aransas

Date 5/18/12

Site Address: 1323 Lee Blvd, Richmond, LA

Job Number: 210518-AW1

Technician(s): Andrew Lusier

### Pre-Job Safety Review

1. JMP reviewed, site restrictions and parking/access issues addressed.	Reviewed: <input type="checkbox"/>
2. Special Permit Required Task Review	
Are there any conditions or tasks that would require:	
Confined space entry	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Working at height	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Lock-out/Tag-out	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Excavations greater than 4 feet deep	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Excavations within 3 feet of a buried active electrical line or product piping or within 10 feet of a high pressure gas line.	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Use of overhead equipment within 15 feet of an overhead electrical power line or pole supporting one	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hot work	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
If "Yes" was the answer to any of the Special Permit Required Tasks above, the Project Manager will contact the client and arrange to modify the Scope of Work so that the Special Permit Required Tasks are not required to be performed by Blaine Tech Services employees.	
3. Is a Traffic Control Permit required for today's work?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
If so is it in the folder? <input type="checkbox"/> <input type="checkbox"/>	
Is it current? <input type="checkbox"/> <input type="checkbox"/>	
Do you understand the Traffic Control Plan and what equipment you will need? <input type="checkbox"/> <input type="checkbox"/>	

### On site Pre-Job Safety Review

- Reviewed and signed the site specific HASP.
- Route to hospital understood.
- Reviewed "Groundwater Monitoring Well Sampling General Job Safety Analysis included in the HASP."
- Exceptional circumstances today that are not covered by the HASP, JSA or JMP have been addressed and mitigated.
- Understands procedure to follow, if site circumstances change, to address new site hazards.
- There are no unexpected conditions which would make your task a Special Permit Required Task. If there is, contact your Project Manager.
- All site hazards have been communicated to all necessary onsite personnel during tailgate safety meeting.
- After lunch tailgate safety meeting refresher conducted.

If Checklist Task cannot be completed, explain:

Permit To Work Authority: Andrew Lusier  
Name

Fielz Technician Andrew Lusier  
Title Technician  
Date 5/18/12  
Time 1059

# **Attachment 2**

**Laboratory Analytical Report and Chain of Custody  
Documentation**



# ANALYTICAL REPORT

June 03, 2021

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

## Arcadis - Chevron - WA

Sample Delivery Group: L1355985  
Samples Received: 05/20/2021  
Project Number: 30064311  
Description: 98944  
Site: 1323 LEE BLVD. RICHLAND WA  
Report To:  
Ada Hamilton  
1100 Olive Way  
Suite 800  
Seattle, WA 98101

Entire Report Reviewed By:

Brian Ford  
Project Manager

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

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 [www.pacenational.com](http://www.pacenational.com)

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# SAMPLE SUMMARY

			Collected by Andrew L.	Collected date/time 05/18/21 13:15	Received date/time 05/20/21 09:30	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1676905	1	05/25/21 11:30	05/25/21 11:30	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1678064	1	05/26/21 19:24	05/26/21 19:24	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1676413	1	05/27/21 09:28	05/28/21 02:33	DMG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1676415	1	05/27/21 09:30	05/28/21 15:53	WCR	Mt. Juliet, TN
			Collected by Andrew L.	Collected date/time 05/18/21 12:22	Received date/time 05/20/21 09:30	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1676905	1	05/25/21 11:51	05/25/21 11:51	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1678064	1	05/26/21 19:44	05/26/21 19:44	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1676413	1	05/27/21 09:28	05/28/21 02:58	DMG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1676415	1	05/27/21 09:30	05/28/21 16:19	WCR	Mt. Juliet, TN
			Collected by Andrew L.	Collected date/time 05/18/21 11:42	Received date/time 05/20/21 09:30	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1676905	1	05/25/21 12:13	05/25/21 12:13	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1678064	1	05/26/21 20:04	05/26/21 20:04	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1676413	1	05/27/21 09:28	05/28/21 03:24	DMG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1676415	1	05/27/21 09:30	06/02/21 10:12	DMG	Mt. Juliet, TN
			Collected by Andrew L.	Collected date/time 05/18/21 12:00	Received date/time 05/20/21 09:30	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1676905	1	05/25/21 12:35	05/25/21 12:35	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1678064	1	05/26/21 20:24	05/26/21 20:24	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1676413	1	05/27/21 09:28	05/28/21 03:50	DMG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1676415	1	05/27/21 09:30	05/28/21 17:10	WCR	Mt. Juliet, TN
			Collected by Andrew L.	Collected date/time 05/18/21 11:00	Received date/time 05/20/21 09:30	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1678064	1	05/26/21 19:04	05/26/21 19:04	JHH	Mt. Juliet, TN

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

# CASE NARRATIVE

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



Brian Ford  
Project Manager

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> GI
- <sup>8</sup> AI
- <sup>9</sup> SC

MW-9-210518

Collected date/time: 05/18/21 13:15

## SAMPLE RESULTS - 01

L1355985

## Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Gasoline Range Organics-NWTPH	1550		31.6	100	1	05/25/2021 11:30	<a href="#">WG1676905</a>
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	110			78.0-120		05/25/2021 11:30	<a href="#">WG1676905</a>

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

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

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Benzene	U		0.0941	1.00	1	05/26/2021 19:24	<a href="#">WG1678064</a>
Toluene	U		0.278	1.00	1	05/26/2021 19:24	<a href="#">WG1678064</a>
Ethylbenzene	0.631	J	0.137	1.00	1	05/26/2021 19:24	<a href="#">WG1678064</a>
Total Xylenes	0.490	J	0.174	3.00	1	05/26/2021 19:24	<a href="#">WG1678064</a>
(S) Toluene-d8	99.5			80.0-120		05/26/2021 19:24	<a href="#">WG1678064</a>
(S) 4-Bromofluorobenzene	96.1			77.0-126		05/26/2021 19:24	<a href="#">WG1678064</a>
(S) 1,2-Dichloroethane-d4	129			70.0-130		05/26/2021 19:24	<a href="#">WG1678064</a>

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

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Diesel Range Organics (DRO)	464		66.7	200	1	05/28/2021 02:33	<a href="#">WG1676413</a>
Residual Range Organics (RRO)	U		83.3	250	1	05/28/2021 02:33	<a href="#">WG1676413</a>
(S) o-Terphenyl	104			52.0-156		05/28/2021 02:33	<a href="#">WG1676413</a>

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

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Diesel Range Organics (DRO)	257		66.7	200	1	05/28/2021 15:53	<a href="#">WG1676415</a>
Residual Range Organics (RRO)	U		83.3	250	1	05/28/2021 15:53	<a href="#">WG1676415</a>
(S) o-Terphenyl	75.8			52.0-156		05/28/2021 15:53	<a href="#">WG1676415</a>

## Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Gasoline Range Organics-NWTPH	3200		31.6	100	1	05/25/2021 11:51	<a href="#">WG1676905</a>
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	121	J1		78.0-120		05/25/2021 11:51	<a href="#">WG1676905</a>

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

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

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Benzene	U		0.0941	1.00	1	05/26/2021 19:44	<a href="#">WG1678064</a>
Toluene	U		0.278	1.00	1	05/26/2021 19:44	<a href="#">WG1678064</a>
Ethylbenzene	15.1		0.137	1.00	1	05/26/2021 19:44	<a href="#">WG1678064</a>
Total Xylenes	0.875	J	0.174	3.00	1	05/26/2021 19:44	<a href="#">WG1678064</a>
(S) Toluene-d8	97.4			80.0-120		05/26/2021 19:44	<a href="#">WG1678064</a>
(S) 4-Bromofluorobenzene	97.0			77.0-126		05/26/2021 19:44	<a href="#">WG1678064</a>
(S) 1,2-Dichloroethane-d4	147	J1		70.0-130		05/26/2021 19:44	<a href="#">WG1678064</a>

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

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Diesel Range Organics (DRO)	771		66.7	200	1	05/28/2021 02:58	<a href="#">WG1676413</a>
Residual Range Organics (RRO)	U		83.3	250	1	05/28/2021 02:58	<a href="#">WG1676413</a>
(S) o-Terphenyl	106			52.0-156		05/28/2021 02:58	<a href="#">WG1676413</a>

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

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Diesel Range Organics (DRO)	215		66.7	200	1	05/28/2021 16:19	<a href="#">WG1676415</a>
Residual Range Organics (RRO)	U		83.3	250	1	05/28/2021 16:19	<a href="#">WG1676415</a>
(S) o-Terphenyl	64.2			52.0-156		05/28/2021 16:19	<a href="#">WG1676415</a>

## Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Gasoline Range Organics-NWTPH	1540		31.6	100	1	05/25/2021 12:13	<a href="#">WG1676905</a>
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	106			78.0-120		05/25/2021 12:13	<a href="#">WG1676905</a>

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> GI<sup>8</sup> Al<sup>9</sup> Sc

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

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Benzene	U		0.0941	1.00	1	05/26/2021 20:04	<a href="#">WG1678064</a>
Toluene	U		0.278	1.00	1	05/26/2021 20:04	<a href="#">WG1678064</a>
Ethylbenzene	0.154	J	0.137	1.00	1	05/26/2021 20:04	<a href="#">WG1678064</a>
Total Xylenes	0.330	J	0.174	3.00	1	05/26/2021 20:04	<a href="#">WG1678064</a>
(S) Toluene-d8	97.2			80.0-120		05/26/2021 20:04	<a href="#">WG1678064</a>
(S) 4-Bromofluorobenzene	94.6			77.0-126		05/26/2021 20:04	<a href="#">WG1678064</a>
(S) 1,2-Dichloroethane-d4	124			70.0-130		05/26/2021 20:04	<a href="#">WG1678064</a>

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

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Diesel Range Organics (DRO)	490		66.7	200	1	05/28/2021 03:24	<a href="#">WG1676413</a>
Residual Range Organics (RRO)	U		83.3	250	1	05/28/2021 03:24	<a href="#">WG1676413</a>
(S) o-Terphenyl	105			52.0-156		05/28/2021 03:24	<a href="#">WG1676413</a>

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

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Diesel Range Organics (DRO)	425		66.7	200	1	06/02/2021 10:12	<a href="#">WG1676415</a>
Residual Range Organics (RRO)	U		83.3	250	1	06/02/2021 10:12	<a href="#">WG1676415</a>
(S) o-Terphenyl	92.1			52.0-156		06/02/2021 10:12	<a href="#">WG1676415</a>

## Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Gasoline Range Organics-NWTPH	3780		31.6	100	1	05/25/2021 12:35	<a href="#">WG1676905</a>
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	106			78.0-120		05/25/2021 12:35	<a href="#">WG1676905</a>

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

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

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Benzene	U		0.0941	1.00	1	05/26/2021 20:24	<a href="#">WG1678064</a>
Toluene	U		0.278	1.00	1	05/26/2021 20:24	<a href="#">WG1678064</a>
Ethylbenzene	21.1		0.137	1.00	1	05/26/2021 20:24	<a href="#">WG1678064</a>
Total Xylenes	1.40	J	0.174	3.00	1	05/26/2021 20:24	<a href="#">WG1678064</a>
(S) Toluene-d8	98.8			80.0-120		05/26/2021 20:24	<a href="#">WG1678064</a>
(S) 4-Bromofluorobenzene	102			77.0-126		05/26/2021 20:24	<a href="#">WG1678064</a>
(S) 1,2-Dichloroethane-d4	148	J1		70.0-130		05/26/2021 20:24	<a href="#">WG1678064</a>

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

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Diesel Range Organics (DRO)	812		66.7	200	1	05/28/2021 03:50	<a href="#">WG1676413</a>
Residual Range Organics (RRO)	U		83.3	250	1	05/28/2021 03:50	<a href="#">WG1676413</a>
(S) o-Terphenyl	107			52.0-156		05/28/2021 03:50	<a href="#">WG1676413</a>

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

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Diesel Range Organics (DRO)	343		66.7	200	1	05/28/2021 17:10	<a href="#">WG1676415</a>
Residual Range Organics (RRO)	U		83.3	250	1	05/28/2021 17:10	<a href="#">WG1676415</a>
(S) o-Terphenyl	83.2			52.0-156		05/28/2021 17:10	<a href="#">WG1676415</a>

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Benzene	U		0.0941	1.00	1	05/26/2021 19:04	<a href="#">WG1678064</a>	<sup>1</sup> Cp
Toluene	U		0.278	1.00	1	05/26/2021 19:04	<a href="#">WG1678064</a>	<sup>2</sup> Tc
Ethylbenzene	U		0.137	1.00	1	05/26/2021 19:04	<a href="#">WG1678064</a>	<sup>3</sup> Ss
Total Xylenes	0.222	<u>J</u>	0.174	3.00	1	05/26/2021 19:04	<a href="#">WG1678064</a>	<sup>4</sup> Cn
(S) Toluene-d8	95.3			80.0-120		05/26/2021 19:04	<a href="#">WG1678064</a>	<sup>5</sup> Sr
(S) 4-Bromofluorobenzene	91.1			77.0-126		05/26/2021 19:04	<a href="#">WG1678064</a>	<sup>6</sup> Qc
(S) 1,2-Dichloroethane-d4	122			70.0-130		05/26/2021 19:04	<a href="#">WG1678064</a>	<sup>7</sup> Gl
								<sup>8</sup> Al
								<sup>9</sup> Sc

WG1676905

Volatile Organic Compounds (GC) by Method NWTPHGX

## QUALITY CONTROL SUMMARY

[L1355985-01,02,03,04](#)

## Method Blank (MB)

(MB) R3659526-3 05/25/21 09:57

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	38.6	J	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	98.1			78.0-120

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

## Laboratory Control Sample (LCS)

(LCS) R3659526-2 05/25/21 09:13

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5380	97.8	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)		104		78.0-120	

WG1678064

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

## QUALITY CONTROL SUMMARY

[L1355985-01,02,03,04,05](#)

## Method Blank (MB)

(MB) R3660321-3 05/26/2118:44

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.0941	1.00
Ethylbenzene	U		0.137	1.00
Toluene	U		0.278	1.00
Xylenes, Total	U		0.174	3.00
(S) Toluene-d8	97.4		80.0-120	
(S) 4-Bromofluorobenzene	92.4		77.0-126	
(S) 1,2-Dichloroethane-d4	122		70.0-130	

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

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

(LCS) R3660321-1 05/26/2117:44 • (LCSD) R3660321-2 05/26/2118:04

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	5.00	5.22	5.33	104	107	70.0-123			2.09	20
Ethylbenzene	5.00	4.12	4.46	82.4	89.2	79.0-123			7.93	20
Toluene	5.00	4.33	4.42	86.6	88.4	79.0-120			2.06	20
Xylenes, Total	15.0	13.8	14.0	92.0	93.3	79.0-123			1.44	20
(S) Toluene-d8				96.4	98.9	80.0-120				
(S) 4-Bromofluorobenzene				95.1	99.6	77.0-126				
(S) 1,2-Dichloroethane-d4				123	123	70.0-130				

## L1356419-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1356419-02 05/27/21 03:04 • (MS) R3660321-4 05/27/21 04:04 • (MSD) R3660321-5 05/27/21 04:24

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	2500	U	2500	1810	100	72.4	500	17.0-158	J3	32.0	27
Ethylbenzene	2500	1730	3140	2870	56.4	45.6	500	30.0-155		8.99	27
Toluene	2500	U	2230	1590	89.2	63.6	500	26.0-154	J3	33.5	28
Xylenes, Total	7500	9180	12200	11600	40.3	32.3	500	29.0-154		5.04	28
(S) Toluene-d8				101	99.4		80.0-120				
(S) 4-Bromofluorobenzene				98.5	99.9		77.0-126				
(S) 1,2-Dichloroethane-d4				117	114		70.0-130				

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

WG1676413

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

## QUALITY CONTROL SUMMARY

[L1355985-01,02,03,04](#)

## Method Blank (MB)

(MB) R3660305-1 05/27/21 22:17

Analyst	MB Result ug/l	<u>MB Qualifier</u>	MB MDL ug/l	MB RDL ug/l
Diesel Range Organics (DRO)	U		66.7	200
Residual Range Organics (RRO)	U		83.3	250
(S) o-Terphenyl	81.5			52.0-156

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

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

(LCS) R3660305-2 05/27/21 22:43 • (LCSD) R3660305-3 05/27/21 23:09

Analyst	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Diesel Range Organics (DRO)	1500	1620	1620	108	108	50.0-150			0.000	20
(S) o-Terphenyl			127	122		52.0-156				

WG1676415

## QUALITY CONTROL SUMMARY

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

[L1355985-01,02,03,04](#)

## Method Blank (MB)

(MB) R3660306-1 05/27/21 23:34

Analyte	MB Result ug/l	<u>MB Qualifier</u>	MB MDL ug/l	MB RDL ug/l
Diesel Range Organics (DRO)	U		66.7	200
Residual Range Organics (RRO)	U		83.3	250
(S) o-Terphenyl	79.0			52.0-156

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

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

(LCS) R3660306-2 05/28/21 00:00 • (LCSD) R3660306-3 05/28/21 00:25

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Diesel Range Organics (DRO)	1500	1320	1190	88.0	79.3	50.0-150			10.4	20
(S) o-Terphenyl			104	95.0		52.0-156				

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

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

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

### Abbreviations and Definitions

MDL	Method Detection Limit.	<sup>1</sup> Cp
RDL	Reported Detection Limit.	<sup>2</sup> Tc
Rec.	Recovery.	<sup>3</sup> Ss
RPD	Relative Percent Difference.	<sup>4</sup> Cn
SDG	Sample Delivery Group.	<sup>5</sup> Sr
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.	<sup>6</sup> Qc
U	Not detected at the Reporting Limit (or MDL where applicable).	<sup>7</sup> Gl
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.	<sup>8</sup> Al
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.	<sup>9</sup> Sc
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.	
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.	
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.	
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.	
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.	
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.	
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.	
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.	
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.	
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.	

### Qualifier      Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J3	The associated batch QC was outside the established quality control range for precision.

# ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

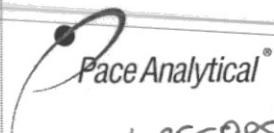
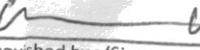
<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Company Name/Address: <b>Arcadis - Chevron - WA</b>			Billing Information: Attn: Accounts Payable 630 Plaza Dr., Ste. 600 Highlands Ranch, CO 80129			Pres Chk	Analysis / Container / Preservative			Chain of Custody	Page <u>1</u> of <u>1</u>	
1100 Olive Way Suite 800 Seattle, WA 98101			Email To: ada.hamilton@arcadis.com;environmentDM-							 <b>L1355985</b> 12065 Lebanon Rd Mount Juliet, TN 37122 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <a href="https://info.pacelabs.com/hubs/pas-standard-terms.pdf">https://info.pacelabs.com/hubs/pas-standard-terms.pdf</a>		
Report to: <b>Ada Hamilton</b>			City/State Collected: <b>Richland, WA</b>			Please Circle: PT MT CT ET						
Project Description: <b>98944</b>		Client Project # <b>30064311</b>		Lab Project # <b>CHEVARCWA-98944</b>								
Phone: <b>206-325-5254</b>		Site/Facility ID # <b>1323 LEE BLVD. RICHLAND WA</b>		P.O. #								
Collected by (print): <b>Andrew Lauer</b>		Rush? (Lab MUST Be Notified)		Quote #								
Collected by (signature): 		<input type="checkbox"/> Same Day <input type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day		Date Results Needed		No. of Cntrs						
Immediately Packed on Ice N <input checked="" type="checkbox"/> Y <input type="checkbox"/>												
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time							
MW-4-210S18	Grab	GW	-	S/18/21	1222	X	X	X			-01	
MW-10-210S18	Grab	GW	-	S/18/21	1222	X	X	X			-02	
MU-11-210S18	Grab	GW	-	S/18/21	1142	X	X	X			-03	
Duplicate-1-210S18	Grab	GW	-	S/18/21	1200	X	X	X			-04	
Trip Blank-1-210S18	Grab	GW	-	S/18/21	1100	X					-05	
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other _____		Remarks:		pH _____			Temp _____			Sample Receipt Checklist		
				Flow _____			Other _____			COC Seal Present/Intact: <input checked="" type="checkbox"/> N COC Signed/Accurate: <input checked="" type="checkbox"/> N Bottles arrive intact: <input checked="" type="checkbox"/> N Correct bottles used: <input checked="" type="checkbox"/> N Sufficient volume sent: <input checked="" type="checkbox"/> N If Applicable VOA Zero Headspace: <input checked="" type="checkbox"/> N Preservation Correct/Checked: <input checked="" type="checkbox"/> N RAD Screen <0.5 mR/hr: <input checked="" type="checkbox"/> N		
Relinquished by : (Signature)		Samples returned via: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier		Tracking # <b>9463 19210282</b>		Trip Blank Received: <input checked="" type="checkbox"/> Yes / No HCl / MeOH TBR			If preservation required by Login: Date/Time			
		Date: <b>5/19/21</b>		Time: <b>1530</b>		Received by: (Signature) <b>shipped via Fed EX</b>						
Relinquished by : (Signature)		Date:		Time:		Received by: (Signature)			Temp: <b>16.6°C</b> Bottles Received: <b>2</b>			
Relinquished by : (Signature)		Date:		Time:		Received for lab by: (Signature) <b>R. Holden</b>			Date: <b>5/21</b> Time: <b>9:30</b>		Hold: _____	Condition: <b>NCF / OK</b>