



March 1, 2017

Ms. Carol Johnston
VCP Site Manager
Department of Ecology
Toxics Cleanup Program
P.O. Box 47775
Olympia, Washington 98504-7775

RE: Confirmation Sampling Results & NFA Request
Plum Street Chevron (aka MJMG Group, LLC)
1018 Plum Street, Olympia, Washington 98501
Facility/Site ID No. 25489377
AEG Project #16-121

Dear Ms. Johnston:

On behalf of the property owner of the above-referenced Site, Associated Environmental Group, LLC (AEG) is submitting the enclosed data for review in consideration of a No Further Action (NFA) determination. In July 2016, AEG enrolled this Site into the Washington State Department of Ecology (Ecology) Voluntary Cleanup Program (VCP). Included was a Phase II Environmental Site Assessment (Phase II), dated May 24, 2016, documenting the sampling of soil and groundwater performed by AEG in an effort to obtain closure for the Site. Upon review, Ecology requested an additional soil sample in the vicinity of the southwest dispenser island. This area historically exhibited the highest concentrations of gasoline-range petroleum hydrocarbon (TPH) and related constituents.

On February 1, 2017, AEG mobilized to the Site, and advanced a boring adjacent to the southwest dispenser and former trench sample T-1(2) (circa 1995) where gasoline-range TPH and benzene had been detected at 9,900 milligrams per kilogram (mg/kg) and 30 mg/kg, respectively, at 2 feet below ground surface (bgs). A soil vacuum was used to remove pea gravel fill around the dispensers, and a temporary casing was placed in the hole to keep it open, and prevent pea gravel from sloughing in. A hand auger was then used to collect a sample of the native soil at 3 feet bgs. The soil sample was submitted for laboratory analysis for gasoline-range TPH and benzene, toluene, ethylbenzene, and xylene (BTEX) compounds.

Analytical results indicated the presence of gasoline-range TPH at 120 mg/kg. All BTEX constituents were non-detect. The location of the soil sample is illustrated in Figure 2, *Site Map*. The analytical results are summarized in Table 1, *Summary of Soil Results*, and the laboratory report is attached.

Reportedly, in November 2016, the on-Site monitoring wells (MW-1 through MW-5) were sampled by leidos on behalf of Chevron, and the Groundwater Monitoring Report, dated February 2, 2017, was received by Ecology on February 10, 2017. The groundwater samples were analyzed for gasoline-, diesel-, and oil-range TPH, BTEX compounds, and total and dissolved lead. Analytical results indicated that all constituents were either non-detect or below cleanup levels. However, the two previous quarters detected total lead in MW-5 just above the Model Toxics Control Act (MTCA) cleanup level of 15 micrograms per liter ($\mu\text{g/L}$) at 16.6 $\mu\text{g/L}$ and 18.8 $\mu\text{g/L}$, respectively. Total lead had also historically exceeded the MTCA cleanup level in MW-3; however, it has been below for the last seven consecutive quarters. Concurrent analyses for dissolved lead has demonstrated that these detections of total lead are a result of suspended solids in the sample, and not indicative of a release at the Site. In addition, of the six soil samples and four groundwater samples collected by AEG from the Site in 2016 and analyzed for lead, all were either non-detect or well below MTCA cleanup levels.

It is AEG's professional opinion that an NFA determination is warranted for the Site for the following reasons:

- No soil or groundwater contamination was detected above MTCA Method A cleanup levels during AEG's April 2016 sampling event in the vicinity and downgradient of historical on-Site source areas.
- Groundwater data collected to date from the on-Site monitoring wells has been below MTCA Method A cleanup levels for at least seven consecutive quarters. The dissolved lead data and AEG's soil and groundwater lead data has shown that the sporadic total lead detections in the wells is likely due to suspended solids in the samples, and is not indicative of a release from the Site. Further, this Site is located in an urban setting, and groundwater is not used for drinking water.
- The confirmation soil sample collected by AEG adjacent the southwest dispenser identified gasoline-range TPH above MTCA cleanup levels (120 mg/kg). No BTEX compounds were detected. Given benzene was non-detect in this sample, as well as all other soil and groundwater samples collected by AEG from the Site, a cleanup level of 100 mg/kg for gasoline-range TPH would be more appropriate for current Site conditions. As such, in accordance with WAC 173-340-740(7)(d), this detection would be considered to have statistically met cleanup standards as follows:

- The concentration of 120 mg/kg is less than twice the cleanup level.
- This detection occurred in less than 10% of the total number of soil samples collected from the Site (1 of 17) and analyzed for gasoline-range TPH.
- The upper one-sided 95% confidence limit on the true mean soil concentration (31.26 mg/kg) is less than the cleanup level (see attached analysis).

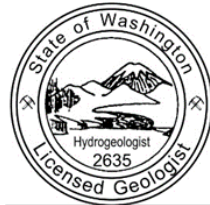
If you have any questions or concerns regarding this application, please don't hesitate to contact our office at (360) 352-9835.

Sincerely,

Associated Environmental Group, LLC



Scott Rose, L.H.G
Senior Hydrogeologist



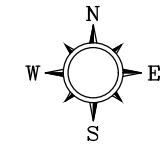
SCOTT | ROSE

cc: Mr. Satnam "Sonny" Singh, MJMG Group, LLC

Enclosures:

- *Figure 2, Site Map*
- *Table 1, Summary of Soil Results*
- *Table 2, Summary of Groundwater Results*
- *Laboratory Report for Soil Sample for GD#3*
- *Leidos Table 1, Groundwater Monitoring Data and Analytical Results*
- *ProUCL Statistical Analysis*

FILENAME 16-121_1602.DWG
 DRAWN BY ICD 5/11/2016
 CHECKED BY NP 5/11/2016
 APPROVED BY NP 5/11/2016
 PROJECT NUMBER 16-121



LEGEND

---	APPROXIMATE PROPERTY LINE
MW-1	GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
B-2	SOIL BORING LOCATION
---	VENT LINE
---	PRODUCT LINES
---	VAPOR RETURN LINE
---	APPROXIMATE LIMIT OF EXCAVATION (1995)

- NOTES**
1. THE LOCATIONS OF ALL FEATURES SHOWN ARE APPROXIMATE
 2. THIS DRAWING IS FOR INFORMATION PURPOSES. IT IS INTENDED TO ASSIST IN SHOWING FEATURES DISCUSSED IN AN ATTACHED DOCUMENT.

REFERENCE

DRAWING CREATED FROM AERIAL PHOTOGRAPH AND NOTES PROVIDED BY AEG, LLC.



FIGURE 2
SITE MAP

CHEVRON SERVICE STATION 9-5311
 1018 PLUM STREET
 OLYMPIA, WASHINGTON

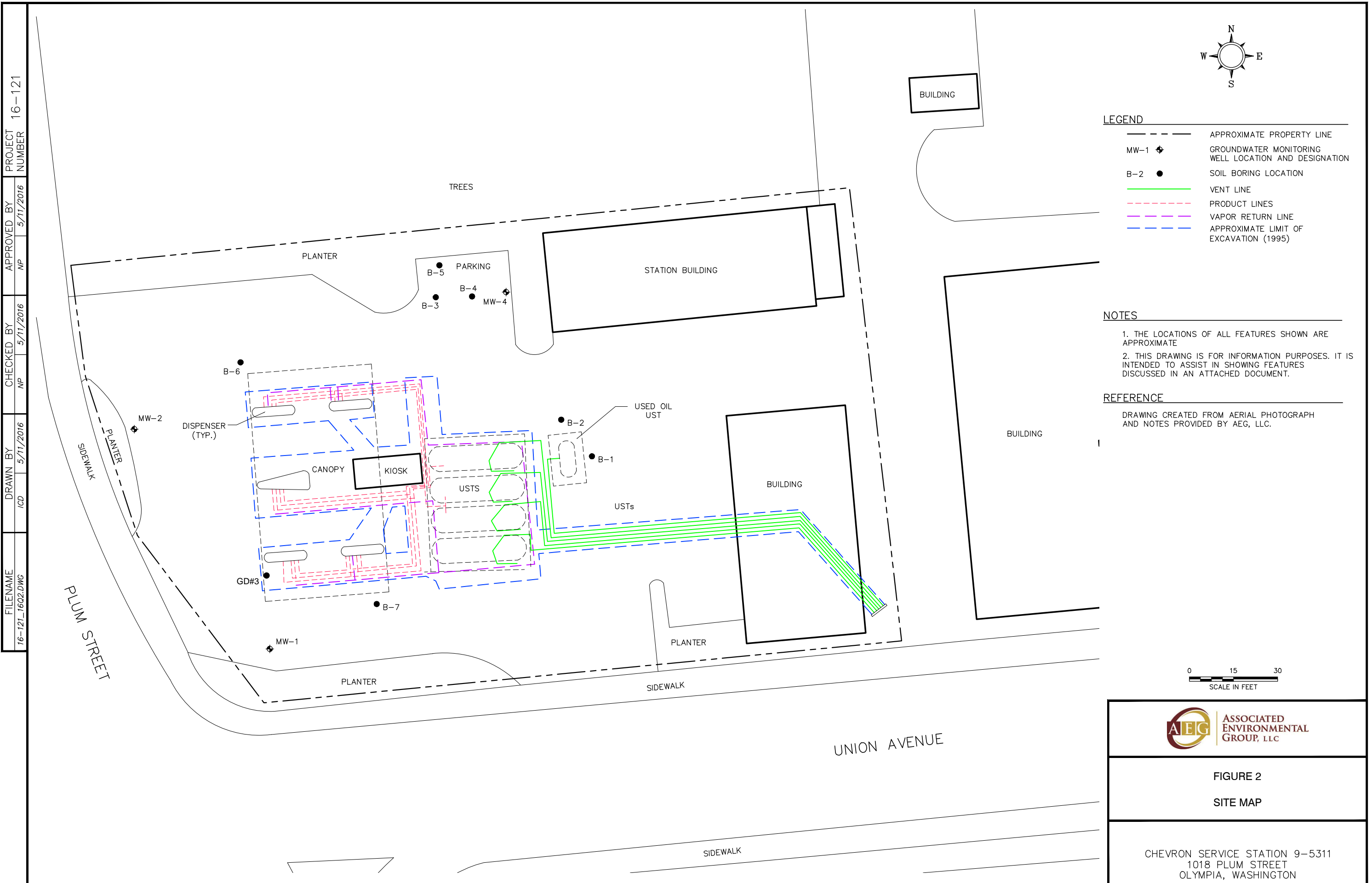


Table 1 - Summary of Soil Results
 Plum Street Chevron
 Olympia, Washington

Sample Number	Sample Depth (feet)	Date Collected	Volatile Organic Compounds								Gasoline Range Organics	Diesel Range Organics	Lube Oil Range Organics	Total cPAHs	PCBs	Total Lead
			Benzene	Toluene	Ethyl-benzene	Total Xylenes	EDC	EDB	Total Naphthalenes	MTBE						
B1-10	10	4/20/2016	<0.02	<0.05	<0.05	<0.15	<0.05	<0.005	-	<0.05	<10	<50	<100	<0.02	<0.2	-
B1-5	5	4/20/2016	<0.02	<0.05	<0.05	<0.15	<0.05	<0.005	-	<0.05	<10	<50	<100	<0.02	<0.2	5.5
B2-8.5	8.5	4/20/2016	<0.02	<0.05	<0.05	<0.15	<0.05	<0.005	-	<0.05	28	<50	<100	<0.02	<0.2	-
B2-12	12	4/20/2016	<0.02	<0.05	<0.05	<0.15	<0.05	<0.005	-	<0.05	<10	<50	<100	<0.02	<0.2	8.0
B3-5	5	4/20/2016	<0.02	<0.05	<0.05	<0.15	-	-	-	-	<10	-	-	-	-	-
B3-10	10	4/20/2016	<0.02	<0.05	<0.05	<0.15	<0.05	<0.005	<0.02	<0.05	15	-	-	-	-	<5.0
B3-12	12	4/20/2016	<0.02	<0.05	<0.05	<0.15	<0.05	<0.005	<0.02	<0.05	<10	-	-	-	-	6.0
B4-5	5	4/20/2016	<0.02	<0.05	<0.05	<0.15	-	-	-	-	<10	-	-	-	-	-
B4-10	10	4/20/2016	<0.02	<0.05	<0.05	<0.15	-	-	-	-	<10	-	-	-	-	-
B5-5	5	4/20/2016	<0.02	<0.05	<0.05	<0.15	-	-	-	-	<10	-	-	-	-	-
B5-8.5	8.5	4/20/2016	<0.02	<0.05	<0.05	<0.15	-	-	-	-	<10	-	-	-	-	-
B6-4	4	4/20/2016	<0.02	<0.05	<0.05	<0.15	-	-	-	-	<10	-	-	-	-	-
B6-7	7	4/20/2016	<0.02	<0.05	<0.05	<0.15	<0.05	<0.005	<0.02	<0.05	<10	-	-	-	-	<5.0
B6-10	10	4/20/2016	<0.02	<0.05	<0.05	<0.15	<0.05	<0.005	<0.02	<0.05	<10	-	-	-	-	<5.0
B7-4.5	4.5	4/20/2016	<0.02	<0.05	<0.05	<0.15	-	-	-	-	<10	-	-	-	-	-
B7-6.5	6.5	4/20/2016	<0.02	<0.05	<0.05	<0.15	-	-	-	-	<10	-	-	-	-	-
GD#3@3	3	2/1/2017	<0.02	<0.05	<0.05	<0.15	-	-	-	-	120	-	-	-	-	-
PQL			0.02	0.05	0.05	0.15	0.05	0.005	0.02/0.05	0.05	10	50	100	0.02	0.2	5.0
MTCA Method A Cleanup Level			0.03	7	6	9	NA	0.005	5	0.1	30*	2000	2000	0.1	1	250

Notes:

All results are in milligrams per kilograms (mg/kg)

-- = Not analyzed for this constituent

< = Not detected above laboratory limits

* TPH-Gasoline Cleanup Level with the presence of Benzene anywhere at the Site

PQL = Practical Quantification Limit (laboratory detection limit)

Red Bold indicates the detected concentration exceeds Ecology MTCA Method A cleanup level

Bold indicates the detected concentration is below Ecology MTCA Method A cleanup levels

EDC = 1,2-Dichloroethane

EDB = Ethylene Dichloride

MTBE = Methyl Tert-Butyl Ether

cPAHs = Carcinogenic polycyclic aromatic hydrocarbons

PCBs = Polychlorinated biphenyls

NA = Method A cleanup level has not been established

Table 2 - Summary of Groundwater Results

Plum Street Chevron

Olympia, Washington

Sample Number	Date Collected	Volatile Organic Compounds								Gasoline Range Organics	Diesel Range Organics	Oil Range Organics	Total cPAHs	PCBs	Total Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	EDC	EDB	Total Naphthalenes	MTBE						
B1-W	4/20/16	<1.0	<1.0	<1.0	<3.0	<1.0	<0.005	<0.1	<1.0	<100	<250	<500	<0.1	<0.1	2.7
B2-W	4/20/16	<1.0	<1.0	2.4	<3.0	-	<0.005	68	<1.0	630	<250	<500	<0.1	<0.1	<2.0
B3-W	4/20/16	<1.0	<1.0	<1.0	<3.0	<1.0	<0.005	<0.1	<1.0	<100	-	-	-	-	<2.0
B4-W	4/20/16	<1.0	<1.0	<1.0	<3.0	-	-	-	-	<100	-	-	-	-	-
B5-W	4/20/16	<1.0	<1.0	<1.0	<3.0	-	-	-	-	<100	-	-	-	-	-
B6-W	4/20/16	<1.0	<1.0	<1.0	<3.0	<1.0	<0.005	<0.1	<1.0	<100	-	-	-	-	<2.0
B7-W	4/20/16	<1.0	<1.0	<1.0	<3.0	-	-	-	-	<100	-	-	-	-	-
PQL		1.0	1.0	1.0	3.0	1.0	0.005	0.1	1.0	100	250	500	0.1	0.1	2.0
MTCA Method A Cleanup Levels		5.0	1,000	700	1,000	5.0	0.01	160	20	800 ¹	500	500	0.1	0.1	15

Notes:

All results are in micrograms per liter (µg/L)

-- = Not analyzed for constituent

< = Not detected at the listed laboratory detection limits

PQL = Practical Quantification Limit (laboratory detection limit)

Red Bold indicates the detected concentration exceeds Ecology MTCA Method A cleanup level

Bold indicates the detected concentration is below Ecology MTCA Method A cleanup levels

¹ TPH-Gasoline Cleanup Level with the presence of Benzene anywhere at the Site

EDC = 1,2-Dichloroethane

EDB = Ethylene Dichloride

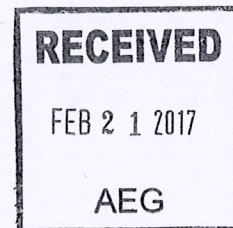
MTBE = Methyl Tert-Butyl Ether

cPAHs = Carcinogenic polycyclic aromatic hydrocarbons

PCBs = Polychlorinated biphenyls

February 14, 2017

Becky Dilba
Associated Environmental Group, Inc.
605 11th Ave. SE, Suite 201
Olympia, WA 98501



Dear Ms. Dilba:

Please find enclosed the analytical data report for the Plum Street Chevron in Olympia, Washington. One soil sample was analyzed for Gasoline by NWTPH-Gx and BTEX by Method 8260 on February 9, 2017.

The results of the analyses are summarized in the attached table. All soil values are reported on a dry weight basis. Applicable detection limits and QA/QC data are included. An invoice for this work is also enclosed.

ESN Northwest appreciates the opportunity to have provided analytical services to Associated Environmental Group, Inc. for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

A handwritten signature in cursive script that reads "Michael A. Korosec".

Michael A. Korosec
President

ESN NORTHWEST CHEMISTRY LABORATORY

Associated Environmental Group
PROJECT PLUM STREET CHEVRON
PROJECT #16-121
Olympia, Washington

ESN Northwest
1210 Eastside Street SE Suite 200
Olympia, WA 98501
(360) 459-4670 (360) 459-3432 Fax
lab@esnnw.com

Analysis of Gasoline Range Organics & BTEX in Soil by Method NWTPH-Gx/8260

Sample Number	Date Prepared	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline Range Organics (mg/kg)	Surrogate Recovery (%)
Method Blank	2/9/2017	2/9/2017	nd	nd	nd	nd	nd	108
LCS	2/9/2017	2/9/2017	117%	131%	134%	136%	114%	95
LCSD	2/9/2017	2/9/2017	109%	102%	100%	105%	---	102
GD#3@3	2/1/2017	2/9/2017	nd	nd	nd	nd	120	112
Reporting Limits			0.02	0.05	0.05	0.15	10	

"---" Indicates not tested for component.

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Bromofluorobenzene) & LCS : 65% TO 135%

TABLE 1
 GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
 CHEVRON SERVICE STATION NO. 95311
 1018 Plum Street
 Olympia, Washington
 Concentrations reported in µg/L

Well ID/ Date	TOC ² (%)	DTW (ft.)	GWE (ft.)	TPH-D	TPH-HO	TPH-G	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead	T. Lead
MW-1													
03/18/99	98.19	1.45	96.74	ND	ND	ND ³	ND	ND	ND	ND	<0.50	<1.0	--
03/18/99 (D)	98.19	--	--	ND	ND	ND ³	ND	ND	ND	ND	<0.50	<1.0	--
05/27/99	98.19	2.32	95.87	<250	<750	<50.0	<0.500	<0.500	<0.500	1.47	--	--	--
08/27/99	98.19	1.90	96.29	<250	<750	<50.0	<0.500	<0.500	<0.500	<1.00	--	--	--
11/05/99	98.19	2.20	95.99	<750	<250	<50.0	<0.500	<0.500	<0.500	<1.00	--	--	--
03/28/00	98.19	2.31	95.88	--	--	--	--	--	--	--	--	--	--
06/12/00	98.19	2.14	96.05	--	--	--	--	--	--	--	--	--	--
09/15/00	98.19	3.90	94.29	--	--	--	--	--	--	--	--	--	--
11/08/00	98.19	3.94	94.25	--	--	--	--	--	--	--	--	--	--
01/24/01	98.19	1.92	96.27	<250	<750	<50.0	<0.500	<0.500	<0.500	<1.00	--	--	--
05/25/05	98.19	4.17	94.02	<80	<100	<48	<0.5	<0.5	<0.5	<1.5	--	--	--
11/29/05	98.19	1.74	96.45	<81	<100	<48	<0.5	<0.5	<0.5	<1.0	<0.5	<0.87	<0.87
01/23/06	98.19	2.01	96.18	<78	<98	<48	<0.5	<0.5	<0.5	<0.5	<0.5	--	0.89
04/18/06	98.19	1.83	96.36	<79	<99	<48	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.87
07/28/06	98.19	1.96	96.23	<79	<98	<48	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.51
01/06/09	98.19	--	--	<200	<400	<100	<1	<2	<1	<3	--	--	--
06/05/13	98.19	4.00	94.19	<28	<66	<50	<0.5	<0.5	<0.5	<1.5	--	--	1.9
11/27/13	98.19	1.80	96.39	<31	<73	<50	<0.5	<0.5	<0.5	<1.5	--	--	4.4
05/12/14	98.19	2.30	95.89	<29	<68	<50	<0.5	<0.5	<0.5	<1.5	--	--	<0.085
11/24/14	98.19	2.01	96.18	<29	<68	<50	<0.5	<0.5	<0.5	<1.5	--	--	<0.082
02/12/15	98.19	3.15	95.04	<28	<66	<50	<0.5	<0.5	<0.5	<1.5	--	--	10
05/06/15	98.19	4.12	94.07	<28	<66	<50	<0.5	<0.5	<0.5	<1.5	--	--	0.51
08/21/15	98.19	4.05	94.14	<46	<100	<50	<0.5	<0.5	<0.5	<1.5	--	--	1.2
11/19/15	98.19	3.21	94.98	<28	<66	<50	<0.5	<0.5	<0.5	<1.5	--	<0.13	1.6
02/23/16	98.19	2.09	96.10	<29	<67	<50	<0.5	<0.5	<0.5	<1.5	--	0.38	3.2
05/21/16	98.19	4.08	94.11	<29	<67	<50	<0.5	<0.5	<0.5	<1.5	--	<0.13	0.72
08/21/16	98.19	3.90	94.29	<29	<68	<50	<0.5	<0.5	<0.5	<1.5	--	14.5	1.2
11/16/16	98.19	3.42	94.77	<29	<67	<50	<0.5	<0.5	<0.5	<1.5	--	0.1	0.88
MW-2													
03/18/99	97.23	1.57	95.66	ND	ND	ND ³	5.41	ND	2.24	2.57	<0.50	<1.0	--
05/27/99	97.23	1.85	95.38	ND	ND	ND	ND	ND	ND	ND	--	--	--
08/27/99	97.23	1.60	95.63	<250	<750	<50.0	<0.500	<0.500	<0.500	<1.00	--	--	--
11/05/99	97.23	1.59	95.64	<250	<750	<50.0	<0.500	<0.500	<0.500	<1.00	--	--	--
03/28/00	97.23	1.91	95.32	3,590	819	<50.0	4.20	<0.500	4.49	1.19	--	--	--
06/12/00 ⁶	97.23	1.61	95.62	--	--	--	--	--	--	--	--	--	--

TABLE 1
 GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
 CHEVRON SERVICE STATION NO. 9531H
 1018 Plum Street
 Olympia, Washington
 Concentrations reported in µg/L

Well ID/ Date	TOC ² (%)	DTW (ft)	GWE (ft)	TPH-D	TPH-HO	TPH-G	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead	T. Lead
MW-2 (cont)													
09/15/00	97.23	1.88	95.35	<250	<750	--	--	--	--	--	--	--	--
11/08/00	97.23	1.78	95.45	<250	<750	<50.0	<0.500	<0.500	<0.500	<1.00	--	--	--
01/24/01	97.23	2.05	95.18	<250	<750	<50.0	<0.500	<0.500	<0.500	<1.00	--	--	--
05/25/05	97.23	1.85	95.38	<79	<99	<48	<0.5	<0.5	<0.5	<1.5	--	--	--
11/29/05	97.23	1.54	95.69	<81	<100	<48	<0.5	<0.5	<0.5	<1.0	<0.5	<0.87	7.2
01/23/06	97.23	1.97	95.26	<82	<100	<48	<0.5	<0.5	<0.5	<0.5	<0.5	--	1.5
04/18/06	97.23	1.98	95.25	<79	100	<48	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.87
07/28/06	97.23	1.72	95.51	<79	<98	<48	<0.5	<0.5	<0.5	<0.5	<0.5	--	1.4
01/08/09	97.23	--	--	<200	<400	<100	<1	<2	<1	<3	--	--	--
06/05/13	97.23	2.81	94.42	<28	<66	<50	<0.5	<0.5	<0.5	<1.5	--	--	0.72
11/27/13	97.23	1.97	95.26	<29	110	<50	<0.5	<0.5	<0.5	<1.5	--	--	1.2
05/12/14	97.23	1.83	95.40	<29	<68	<50	<0.5	<0.5	<0.5	<1.5	--	--	<0.085
11/24/14	97.23	1.81	95.42	<30	<71	<50	<0.5	<0.5	<0.5	<1.5	--	--	0.18
02/12/15	97.23	2.43	94.80	<29	84	53	<0.5	<0.5	<0.5	<1.5	--	--	14.4
05/06/15	97.23	2.73	94.30	<29	<69	<50	<0.5	<0.5	<0.5	<1.5	--	--	0.17
08/21/15	97.23	2.53	94.70	<46	<100	<50	<0.5	<0.5	<0.5	<1.5	--	--	2.5
11/19/15	97.23	2.22	95.01	<28	<66	<50	<0.5	<0.5	<0.5	<1.5	--	--	<0.13
02/23/16	97.23	2.51	94.72	<29	<67	190	1.1	<0.5	1	<1.5	--	<0.13	9.8
05/21/16	97.23	2.44	94.79	<29	<68	<50	<0.5	<0.5	<0.5	<1.5	--	<0.13	9.9
08/21/16	97.23	2.51	94.72	<28	<66	<50	<0.5	<0.5	<0.5	<1.5	--	0.68	3.1
11/16/16	97.23	2.38	94.85	<28	<66	<50	<0.5	<0.5	<0.5	<1.5	--	<0.090	4.5
MW-3													
03/18/99	99.98	5.16	94.82	ND	ND	ND ⁵	ND	ND	ND	ND	<0.50	<1.0	--
05/27/99	99.98	5.16	94.82	ND	ND	ND	ND	ND	ND	ND	--	--	--
08/27/99	99.98	5.17	94.81	<250	<750	<50.0	<0.500	<0.500	<0.500	<1.00	--	--	--
11/05/99	99.98	5.19	94.79	<250	<750	<50.0	<0.500	<0.500	<0.500	<1.00	--	--	--
03/28/00	99.98	5.23	94.75	--	--	--	--	--	--	--	--	--	--
06/12/00	99.98	5.00	94.98	--	--	--	--	--	--	--	--	--	--
09/15/00	99.98	5.36	94.62	--	--	--	--	--	--	--	--	--	--
11/08/00	99.98	5.16	94.82	--	--	--	--	--	--	--	--	--	--
01/24/01	99.98	5.14	94.84	<250	<750	<50.0	<0.500	<0.500	<0.500	<1.00	--	--	--
05/25/05	99.98	5.33	94.65	<80	<100	<48	<0.5	<0.5	<0.5	<1.5	--	--	--
11/29/05	99.98	4.88	95.10	<81	<100	<48	<0.5	<0.5	<0.5	<1.0	<0.5	<0.87	1.5
01/23/06	99.98	5.09	94.89	<82	<100	<48	<0.5	<0.5	<0.5	<0.5	<0.5	--	1.7
04/18/06	99.98	5.12	94.86	<99	<79	<48	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.87

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
CHEVRON SERVICE STATION NO. 95311
1018 Plum Street
Olympia, Washington

Concentrations reported in µg/L

Well ID/ Date	TOC ^c (%)	DTW (ft.)	GWE (ft.)	TPH-D	TPH-HO	TPH-G	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead	T. Lead	
MW-3 (cont)														
07/28/06	99.98	5.35	94.63	<79	<98	<48	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.51	
01/06/09	99.98	--	--	<200	<400	<100	<1	<2	<1	<3	--	--	--	
06/05/13	99.98	INACCESSIBLE- CONSTRUCTION ACTIVITIES												
11/27/13	99.98	INACCESSIBLE- CAR PARKED ON WELL												
03/12/14	99.98	5.31	94.67	<29	<67	<50	<0.5	<0.5	<0.5	<1.5	--	--	--	
11/24/14	99.98	5.14	94.84	<30	<69	<50	<0.5	<0.5	<0.5	<1.5	--	--	27.8	
02/12/15	99.98	5.37	94.61	<30	93	<50	<0.5	<0.5	<0.5	<1.5	--	--	0.31	
05/06/15	99.98	5.78	94.20	<29	<68	<50	<0.5	<0.5	<0.5	<1.5	--	--	108	
08/21/15	99.98	5.97	94.01	<46	<100	<50	<0.5	<0.5	<0.5	<1.5	--	--	0.12	
11/19/15	99.98	4.54	95.44	<28	<66	<50	<0.5	<0.5	<0.5	<1.5	--	<0.13	1.6	
02/23/16	99.98	5.58	94.40	<28	<66	<50	<0.5	<0.5	<0.5	<1.5	--	0.2	10.7	
05/21/16	99.98	5.96	94.02	<29	<68	<50	<0.5	<0.5	<0.5	<1.5	--	<0.13	1.8	
08/21/16	99.98	6.02	93.96	<29	<67	<50	<0.5	<0.5	<0.5	<1.5	--	0.1	2.0	
11/16/16	99.98	5.15	94.83	<28	<66	<50	<0.5	<0.5	<0.5	<1.5	--	<0.090	1.4	
MW-4														
03/18/99	99.31	7.66	91.65	ND	ND	ND ²	ND	ND	ND	ND	<0.50	<1.0	--	
05/27/99	99.31	7.53	91.78	ND	ND	ND	ND	0.694	ND	1.61	--	--	--	
08/27/99	99.31	7.62	91.69	<250	<730	<50.0	<0.500	<0.500	<0.500	<1.00	--	--	--	
11/05/99	99.31	7.70	91.61	<250	<750	<50.0	<0.500	<0.500	<0.500	<1.00	--	--	--	
03/28/00	99.31	7.60	91.71	--	--	--	--	--	--	--	--	--	--	
06/12/00	99.31	7.53	91.78	--	--	--	--	--	--	--	--	--	--	
09/15/00	99.31	7.70	91.61	--	--	--	--	--	--	--	--	--	--	
11/08/00	99.31	7.62	91.69	--	--	--	--	--	--	--	--	--	--	
01/24/01	99.31	7.63	91.68	<250	<750	<50.0	<0.500	<0.500	<0.500	<1.00	--	--	--	
05/25/05	99.31	7.43	91.88	<79	<99	<48	<0.5	<0.5	<0.5	<1.5	--	--	--	
11/29/05	99.31	7.33	91.98	<81	<100	<48	<0.5	<0.5	<0.5	<1.0	<0.5	<0.87	8.5	
01/23/06	99.31	7.33	91.98	<80	<100	<48	<0.5	<0.5	<0.5	<0.5	<0.5	--	8.2	
04/18/06	99.31	INACCESSIBLE- VEHICLE PARKED OVER WELL												
07/28/06	99.31	INACCESSIBLE- VEHICLE PARKED OVER WELL												
01/06/09	99.31	--	--	<200	<400	<100	<1	<2	<1	<3	--	--	--	
06/05/13	99.31	INACCESSIBLE- SHED OVER WELL												
11/27/13	99.31	INACCESSIBLE- SHED OVER WELL												
05/12/14	99.31	INACCESSIBLE- SHED OVER WELL												
11/24/14	99.31	INACCESSIBLE- SHED OVER WELL												
02/12/15	99.31	INACCESSIBLE- SHED OVER WELL												

TABLE 1
 GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
 CHEVRON SERVICE STATION NO. 95311
 1018 Plum Street
 Olympia, Washington
 Concentrations reported in µg/L

Well ID/ Date	TOC ² (%)	DTW (ft.)	GWE (ft.)	TPH-D	TPH-HO	TPH-G	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead	T. Lead
MW-4 (cont)													
05/06/15	99.31	7.21	92.10	<29	<68	<50	<0.5	<0.5	<0.5	<1.5	--	--	0.09
08/21/15	99.31	7.35	91.96	<46	<100	<50	<0.5	<0.5	<0.5	<1.5	--	--	6.2
11/19/15	99.31	7.02	92.29	<28	<66	<50	<0.5	<0.5	<0.5	<1.5	--	0.41	2.8
02/23/16	99.31	6.81	92.50	<31	<73	<50	<0.5	<0.5	<0.5	<1.5	--	<0.13	2.8
05/21/16	99.31	7.12	92.19	<29	<67	<50	<0.5	<0.5	<0.5	<1.5	--	<0.13	3.9
08/21/16	99.31	7.24	92.07	<29	<67	<50	<0.5	<0.5	<0.5	<1.5	--	<0.09	4.5
11/16/16	99.31	6.68	92.63	<29	<67	<50	<0.5	<0.5	<0.5	<1.5	--	0.29	1.9
MW-5													
01/06/09	NE	--	--	<200	<400	<100	<1	<2	<1	<3	--	--	--
06/05/13	NE	3.98	--	<29	<67	<50	<0.5	<0.5	<0.5	<1.5	--	--	4.8
11/27/13	NE	1.79	--	<31	100	<50	<0.5	<0.5	<0.5	<1.5	--	--	4.6
05/12/14	NE	4.77	--	<29	<68	<50	<0.5	0.5	<0.5	<1.5	--	--	175
11/24/14	NE	1.98	--	<28	<66	<50	<0.5	<0.5	<0.5	<1.5	--	--	0.39
02/12/15	NE	3.94	--	<29	100	<50	<0.5	<0.5	<0.5	<1.5	--	--	2.5
05/06/15	NE	4.07	--	<28	<66	<50	<0.5	<0.5	<0.5	<1.5	--	--	0.18
08/21/15	NE	4.10	--	<45	<100	<50	<0.5	<0.5	<0.5	<1.5	--	--	2.4
11/19/15	NE	3.88	--	<29	<67	<50	<0.5	<0.5	<0.5	<1.5	--	0.39	4.2
02/23/16	NE	3.98	--	<30	<69	<50	<0.5	<0.5	<0.5	<1.5	--	<0.13	5.4
05/21/16	NE	3.78	--	<29	<67	<50	<0.5	<0.5	<0.5	<1.5	--	<0.13	16.6
08/21/16	NE	4.02	--	<29	<67	<50	<0.5	<0.5	<0.5	<1.5	--	<0.09	18.8
11/16/16	NE	3.86	--	<28	<66	<50	<0.5	<0.5	<0.5	<1.5	--	1.0	12.1
TRIP BLANK													
03/18/99	--	--	--	--	--	ND ³	ND	ND	ND	ND	<0.50	<1.0	--
05/27/99	--	--	--	--	--	ND	ND	ND	ND	ND	--	--	--
08/27/99	--	--	--	--	--	ND	ND	ND	ND	ND	--	--	--
11/05/99	--	--	--	--	--	ND	ND	ND	ND	ND	--	--	--
03/28/00	--	--	--	--	--	ND	ND	ND	ND	ND	--	--	--
06/12/00	--	--	--	--	--	ND	ND	ND	ND	ND	--	--	--
09/15/00	--	--	--	--	--	ND	ND	ND	ND	ND	--	--	--
11/08/00	--	--	--	--	--	ND	ND	ND	ND	ND	--	--	--
01/24/01	--	--	--	--	--	ND	ND	ND	ND	ND	--	--	--
QA													
05/25/05	--	--	--	--	--	<48	<0.5	<0.5	<0.5	<1.5	--	--	--
11/29/05	--	--	--	--	--	<48	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
01/23/06	--	--	--	--	--	<48	<0.5	<0.5	<0.5	<1.5	<0.5	--	--

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
CHEVRON SERVICE STATION NO. 95311
1018 Plum Street
Olympia, Washington
Concentrations reported in µg/L

Well ID/ Date	TOC ² (%)	DTW (ft)	GWE (ft)	TPH-D	TPH-HO	TPH-G	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead	T. Lead
MW-3 (cont)													
07/28/06	99.98	5.35	94.63	<79	<98	<48	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.51
01/06/09	99.98	--	--	<200	<400	<100	<1	<2	<1	<3	--	--	--
06/05/13	99.98	INACCESSIBLE- CONSTRUCTION ACTIVITIES											
11/27/13	99.98	INACCESSIBLE- CAR PARKED ON WELL											
05/12/14	99.98	5.31	94.67	<29	<67	<50	<0.5	<0.5	<0.5	<1.5	--	--	27.8
11/24/14	99.98	5.14	94.84	<30	<69	<50	<0.5	<0.5	<0.5	<1.5	--	--	0.31
02/12/15	99.98	5.37	94.61	<30	93	<50	<0.5	<0.5	<0.5	<1.5	--	--	108
05/06/15	99.98	5.78	94.20	<29	<68	<50	<0.5	<0.5	<0.5	<1.5	--	--	0.12
08/21/15	99.98	5.97	94.01	<46	<100	<50	<0.5	<0.5	<0.5	<1.5	--	--	0.67
11/19/15	99.98	4.54	95.44	<28	<66	<50	<0.5	<0.5	<0.5	<1.5	--	<0.13	1.6
02/23/16	99.98	5.58	94.40	<28	<66	<50	<0.5	<0.5	<0.5	<1.5	--	0.2	10.7
05/21/16	99.98	5.96	94.02	<29	<68	<50	<0.5	<0.5	<0.5	<1.5	--	<0.13	1.8
08/21/16	99.98	6.02	93.96	<29	<67	<50	<0.5	<0.5	<0.5	<1.5	--	0.1	2.0
11/16/16	99.98	5.15	94.83	<28	<66	<50	<0.5	<0.5	<0.5	<1.5	--	<0.090	1.4
MW-4													
03/18/99	99.31	7.66	91.65	ND	ND	ND ³	ND	ND	ND	ND	<0.50	<1.0	--
05/27/99	99.31	7.55	91.78	ND	ND	ND	ND	0.694	ND	1.61	--	--	--
08/27/99	99.31	7.62	91.69	<250	<750	<50.0	<0.500	<0.500	<0.500	<1.00	--	--	--
11/05/99	99.31	7.70	91.61	<250	<750	<50.0	<0.500	<0.500	<0.500	<1.00	--	--	--
03/28/00	99.31	7.60	91.71	--	--	--	--	--	--	--	--	--	--
06/12/00	99.31	7.53	91.78	--	--	--	--	--	--	--	--	--	--
09/15/00	99.31	7.70	91.61	--	--	--	--	--	--	--	--	--	--
11/08/00	99.31	7.62	91.69	--	--	--	--	--	--	--	--	--	--
01/24/01	99.31	7.63	91.68	<250	<750	<50.0	<0.500	<0.500	<0.500	<1.00	--	--	--
05/25/05	99.31	7.43	91.88	<79	<99	<48	<0.5	<0.5	<0.5	<1.5	--	--	--
11/29/05	99.31	7.33	91.98	<81	<100	<48	<0.5	<0.5	<0.5	<1.0	<0.5	<0.87	8.5
01/23/06	99.31	7.33	91.98	<80	<100	<48	<0.5	<0.5	<0.5	<0.5	<0.5	--	8.2
04/18/06	99.31	INACCESSIBLE- VEHICLE PARKED OVER WELL											
07/28/06	99.31	INACCESSIBLE- VEHICLE PARKED OVER WELL											
01/06/09	99.31	--	--	<200	<400	<100	<1	<2	<1	<3	--	--	--
06/05/13	99.31	INACCESSIBLE- SHED OVER WELL											
11/27/13	99.31	INACCESSIBLE- SHED OVER WELL											
05/12/14	99.31	INACCESSIBLE- SHED OVER WELL											
11/24/14	99.31	INACCESSIBLE- SHED OVER WELL											
02/12/15	99.31	INACCESSIBLE- SHED OVER WELL											

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GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
CHEVRON SERVICE STATION NO. 95311
1018 Plum Street
Olympia, Washington
Concentrations reported in µg/L

Well ID/ Date	TOC ² (%)	DTW (ft.)	GWE (ft.)	TPH-D	TPH-HO	TPH-G	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead	T. Lead
MW-4 (cont)													
05/06/15	99.31	7.21	92.10	<29	<68	<50	<0.5	<0.5	<0.5	<1.5	--	--	0.09
08/21/15	99.31	7.35	91.96	<46	<100	<50	<0.5	<0.5	<0.5	<1.5	--	--	6.2
11/19/15	99.31	7.02	92.29	<28	<66	<50	<0.5	<0.5	<0.5	<1.5	--	0.41	2.8
02/23/16	99.31	6.81	92.50	<31	<73	<50	<0.5	<0.5	<0.5	<1.5	--	<0.13	2.8
05/21/16	99.31	7.12	92.19	<29	<67	<50	<0.5	<0.5	<0.5	<1.5	--	<0.13	3.9
08/21/16	99.31	7.24	92.07	<29	<67	<50	<0.5	<0.5	<0.5	<1.5	--	<0.09	4.5
11/16/16	99.31	6.68	92.63	<29	<67	<50	<0.5	<0.5	<0.5	<1.5	--	0.29	1.9
MW-5													
01/06/09	NE	--	--	<200	<400	<100	<1	<2	<1	<3	--	--	--
06/05/13	NE	3.98	--	<29	<67	<50	<0.5	<0.5	<0.5	<1.5	--	--	4.8
11/27/13	NE	1.79	--	<31	100	<50	<0.5	<0.5	<0.5	<1.5	--	--	4.6
05/12/14	NE	4.77	--	<29	<88	<50	<0.5	0.5	<0.5	<1.5	--	--	175
11/24/14	NE	1.98	--	<28	<66	<50	<0.5	<0.5	<0.5	<1.5	--	--	0.39
02/12/15	NE	3.94	--	<29	100	<50	<0.5	<0.5	<0.5	<1.5	--	--	2.5
05/06/15	NE	4.07	--	<28	<66	<50	<0.5	<0.5	<0.5	<1.5	--	--	0.18
08/21/15	NE	4.10	--	<45	<100	<50	<0.5	<0.5	<0.5	<1.5	--	--	2.4
11/19/15	NE	3.88	--	<29	<67	<50	<0.5	<0.5	<0.5	<1.5	--	0.39	4.2
02/23/16	NE	3.98	--	<30	<69	<50	<0.5	<0.5	<0.5	<1.5	--	<0.13	5.4
05/21/16	NE	3.78	--	<29	<67	<50	<0.5	<0.5	<0.5	<1.5	--	<0.13	16.6
08/21/16	NE	4.02	--	<29	<67	<50	<0.5	<0.5	<0.5	<1.5	--	<0.09	18.8
11/16/16	NE	3.86	--	<28	<66	<50	<0.5	<0.5	<0.5	<1.5	--	1.0	12.1
TRIP BLANK													
03/18/99		--	--	--	--	ND ³	ND	ND	ND	ND	<0.50	<1.0	--
05/27/99		--	--	--	--	ND	ND	ND	ND	ND	--	--	--
08/27/99		--	--	--	--	ND	ND	ND	ND	ND	--	--	--
11/05/99		--	--	--	--	ND	ND	ND	ND	ND	--	--	--
03/28/00		--	--	--	--	ND	ND	ND	ND	ND	--	--	--
06/12/00		--	--	--	--	ND	ND	ND	ND	ND	--	--	--
09/15/00		--	--	--	--	ND	ND	ND	ND	ND	--	--	--
11/08/00		--	--	--	--	ND	ND	ND	ND	ND	--	--	--
01/24/01		--	--	--	--	ND	ND	ND	ND	ND	--	--	--
QA													
05/25/05		--	--	--	--	<48	<0.5	<0.5	<0.5	<1.5	--	--	--
11/29/05		--	--	--	--	<48	<0.5	<0.5	<0.5	<1.5	<2.5	--	--
01/23/06		--	--	--	--	<48	<0.5	<0.5	<0.5	<0.5	<0.5	--	--

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
CHEVRON SERVICE STATION NO. 95311
 1018 Plum Street
 Olympia, Washington
 Concentrations reported in µg/L

Well ID/ Date	TOC ² (µL)	DTW (ft)	GWE (ft)	TPH-D	TPH-HO	TPH-G	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead	T. Lead
QA (cont)													
04/18/06		--	--	--	--	<48	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
04/18/06		--	--	--	--	<48	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
07/28/06		--	--	--	--	<48	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
06/05/13		--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
11/27/13		--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
05/12/14		--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
11/24/14		--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
02/12/15		--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
05/06/15		--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
08/21/15		--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
11/19/15		--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
02/23/16		--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
05/21/16		--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
08/21/16		--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
11/16/16		--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--	--
Standard Laboratory Reporting Limits:													
MTCA Method A Cleanup Levels:				250	500	800/1,000	5	1,000	700	1,000	20	0.001	1
Current Method ³ :				NWTPH-Dx + Extended ⁴	NWTPH-Gx				EPA 8021B			EPA 6020	EPA 6020

EXPLANATIONS:

- Groundwater monitoring data and laboratory analytical results prior to June 5, 2013, were compiled from reports prepared by Cambria Environmental Technology, Inc., EPI and Gettler-Ryan, Inc.
- TOC = Top of Casing
 DTW = Depth to Water
 ft. = Feet
 GWE = Groundwater Elevation
 TPH-D = Total Petroleum Hydrocarbons as Diesel
 TPH-HO = Total Petroleum Hydrocarbons as Heavy Oil
- 1 Analytical results in bold indicate concentrations exceed MTCA Method A cleanup level.
 2 TOC elevations are relative to an arbitrary benchmark of 100 ft.
 3 Laboratory analytical methods for historical data may not be consistent with list of current methods. When necessary, consult original laboratory reports to verify methods used.
 4 Analyzed with silica-gel cleanup.
 5 Detection limit raised. Refer to analytical reports.
 6 Laboratory report indicates that due to an anomaly during the extraction process the sample was lost in its entirety.
- TPH-G = Total Petroleum Hydrocarbons as Gasoline
 MTBE = Methyl Tertiary Butyl Ether
 D. Lead = Dissolved Lead
 T. Lead = Total Lead
 µg/L = Micrograms per liter
 (D) = Duplicate
- ND = Not Detected
 NE = Not Established
 QA = Quality Assurance/Trip Blank
 -- = Not Measured/Not Analyzed
 MTCA = Model Toxics Control Act

UCL Statistics for Data Sets with Non-Detects

User Selected Options

Date/Time of Computation 2/28/2017 5:01:30 PM
 From File Plum St_ProUCL2.xls
 Full Precision OFF
 Confidence Coefficient 95%
 Number of Bootstrap Operations 2000

DATA

General Statistics

Total Number of Observations	17	Number of Distinct Observations	4
Number of Detects	3	Number of Non-Detects	14
Number of Distinct Detects	3	Number of Distinct Non-Detects	1
Minimum Detect	15	Minimum Non-Detect	10
Maximum Detect	120	Maximum Non-Detect	10
Variance Detects	3276	Percent Non-Detects	82.35%
Mean Detects	54.33	SD Detects	57.24
Median Detects	28	CV Detects	1.053
Skewness Detects	1.632	Kurtosis Detects	N/A
Mean of Logged Detects	3.609	SD of Logged Detects	1.067

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.841
5% Shapiro Wilk Critical Value	0.767
Lilliefors Test Statistic	0.344
5% Lilliefors Critical Value	0.512

Shapiro Wilk GOF Test

Detected Data appear Normal at 5% Significance Level

Lilliefors GOF Test

Detected Data appear Normal at 5% Significance Level

Detected Data appear Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

Mean	17.82	Standard Error of Mean	7.695
SD	25.91	95% KM (BCA) UCL	N/A
95% KM (t) UCL	31.26	95% KM (Percentile Bootstrap) UCL	N/A
95% KM (z) UCL	30.48	95% KM Bootstrap t UCL	N/A
90% KM Chebyshev UCL	40.91	95% KM Chebyshev UCL	51.37
97.5% KM Chebyshev UCL	65.88	99% KM Chebyshev UCL	94.39

Gamma GOF Tests on Detected Observations Only

Not Enough Data to Perform GOF Test

Gamma Statistics on Detected Data Only

k hat (MLE)	1.44	k star (bias corrected MLE)	N/A
Theta hat (MLE)	37.74	Theta star (bias corrected MLE)	N/A
nu hat (MLE)	8.638	nu star (bias corrected)	N/A
MLE Mean (bias corrected)	N/A	MLE Sd (bias corrected)	N/A

Gamma Kaplan-Meier (KM) Statistics

k hat (KM)	0.473	nu hat (KM)	16.09
Approximate Chi Square Value (16.09, α)	8.029	Adjusted Level of Significance (β)	0.0346
		Adjusted Chi Square Value (16.09, β)	7.438

Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.949	Shapiro Wilk GOF Test
5% Shapiro Wilk Critical Value	0.767	Detected Data appear Lognormal at 5% Significance Level
Lilliefors Test Statistic	0.269	Lilliefors GOF Test
5% Lilliefors Critical Value	0.512	Detected Data appear Lognormal at 5% Significance Level

Detected Data appear Lognormal at 5% Significance Level**Lognormal ROS Statistics Using Imputed Non-Detects**

Mean in Original Scale	10.07	Mean in Log Scale	-1.321
SD in Original Scale	29.26	SD in Log Scale	3.267
95% t UCL (assumes normality of ROS data)	22.46	95% Percentile Bootstrap UCL	23.21
95% BCA Bootstrap UCL	32.35	95% Bootstrap t UCL	82.08
95% H-UCL (Log ROS)	14431		

UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed

KM Mean (logged)	2.533	95% H-UCL (KM -Log)	21.29
KM SD (logged)	0.618	95% Critical H Value (KM-Log)	2.161
KM Standard Error of Mean (logged)	0.184		

DL/2 Statistics

DL/2 Normal		DL/2 Log-Transformed	
Mean in Original Scale	13.71	Mean in Log Scale	1.962
SD in Original Scale	28.02	SD in Log Scale	0.872
95% t UCL (Assumes normality)	25.57	95% H-Stat UCL	17.82

DL/2 is not a recommended method, provided for comparisons and historical reasons**Nonparametric Distribution Free UCL Statistics****Detected Data appear Normal Distributed at 5% Significance Level****Suggested UCL to Use**

95% KM (t) UCL	31.26	95% KM (Percentile Bootstrap) UCL	N/A
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Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.

Recommendations are based upon data size, data distribution, and skewness.

These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).

However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.