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Mr. Steve Teel, LHG  
Cleanup Project Manager/Hydrogeologist  
Washington State Department of Ecology  
Toxics Cleanup Program, Southwest Regional Office  
P.O. Box 47775  
Olympia, WA 98504-7775

ENVIRONMENT

Subject:  
Semi-Annual Status Report, Second Half 2020

Dear Mr. Teel,

Date:  
December 23, 2020

On behalf of Chevron Environmental Management Company's (CEMC) affiliate, Arcadis has prepared the attached *Semi-Annual Status Report, Second Half 2020* for the following facility:

Contact:  
Ada Hamilton

<u>Former Texaco Service Station No.</u>	<u>Case No.</u>	<u>Location</u>
211556	2050090	101 Mulford Road, Toledo, Washington

Phone:  
206-413-6430

Email:  
[Ada.Hamilton@arcadis.com](mailto:Ada.Hamilton@arcadis.com)

If you have any questions, please do not hesitate to contact me.

Our ref:  
30046043

Sincerely,

Arcadis U.S., Inc.



Ada Hamilton  
Project Manager

Copies:  
Mr. Tim Bishop – CEMC  
Mr. Charles Vineyard – Property owner

**SEMI-ANNUAL STATUS REPORT**

**Second Half 2020  
December 23, 2020**

Facility No:	<u>Former Texaco Service Station No. 211556</u>	Address:	<u>101 Mulford Road, Toledo, Washington</u>
Arcadis Contact Person / Phone No.:	<u>Ada Hamilton / (206) 413-6430</u>		
Arcadis Project No.:	<u>30046043</u>		
Primary Agency / Regulatory ID No.:	<u>Washington State Department of Ecology (Ecology) Southwest Regional Office, Toxics Cleanup Program / Steve Teel / Agreed Order No. DE5236</u>		

**WORK CONDUCTED THIS PERIOD [Second Half 2020]:**

1. Conducted semi-annual groundwater monitoring and sampling activities on November 7, 2020.
2. Submitted Draft Revised Feasibility Study to Ecology on November 16, 2020.
3. Prepared the *Semi-Annual Status Report, Second Half 2020*.

**WORK PROPOSED NEXT PERIOD [First Half 2021]:**

1. Conduct semi-annual groundwater monitoring activities.
2. Prepare the *Semi-Annual Status Report, First Half 2021*.

Current Phase of Project:	<u>Monitoring</u>	
Frequency of Monitoring / Sampling:	<u>Semi-Annual (Q2/Q4)</u>	
Are Light Non-Aqueous Phase Liquid (LNAPL) Present On-site:	<u>None</u>	
Cumulative LNAPL Recovered to Date:	<u>None</u>	(gallons)
Depth to Groundwater:	<u>5.95 to 8.27</u>	(feet below top of casing)
Groundwater Elevation:	<u>100.62 to 101.40</u>	(feet above NAVD88)
Groundwater Flow Direction	<u>Southeast</u>	

Groundwater Gradient	0.0048	(feet per foot)
Current Remediation Techniques:	None	
Permits for Discharge:	Not Applicable	
Summary of Unusual Activity:	None	
Agency Directive Requirements:	Agreed Order No. DE5236	

**DISCUSSION**

Gettler-Ryan, Inc. (G-R) conducted semi-annual groundwater monitoring activities on November 7, 2020. Ten (10) monitoring wells (MW-109 through MW-114 and B-1 through B-4) were gauged and five (5) monitoring wells (MW-111, MW-112, MW-113, B-3, and B-4) were purged and sampled by G-R representatives. Sampling was discontinued at B-1, B-2, MW-109, and MW-114 as indicated in Ecology’s letter dated August 18, 2020, regarding modification of the groundwater sampling program. The groundwater monitoring field data sheets and general field procedures are included as Attachment A. The site location and site plan are presented on Figures 1 and 2, respectively.

Groundwater samples were submitted to Pace Analytical Laboratory under standard chain-of-custody protocol and analyzed for the following chemicals of potential concern (COPCs):

- Gasoline-range organics (GRO) by method NWTPH-Gx,
- Diesel-range organics (DRO) and heavy oil-range organics (HO) by method NWTPH-Dx with and without silica gel cleanup,
- Benzene, toluene, ethylbenzene, xylene (collectively BTEX) by United States Environmental Protection Agency (USEPA) Method 8260D, and
- Dissolved lead by USEPA Methods 6020B.

Purge water generated during this sampling event was treated at the site by G-R using a granular activated carbon filtration system. A sample of the treated water (TPWHD-1) was collected and submitted for analyses as described above. The analytical results did not exceed the laboratory reported detection limit. Following treatment, the purge water was containerized in 55-gallon drums, which are stored in an onsite secondary containment overpack awaiting laboratory results and Ecology authorization for disposal by surface discharge.

No LNAPL was observed in any of the monitoring wells during this sampling event. The direction of groundwater flow was to the southeast, and the calculated gradient of 0.0048 feet per foot (feet/foot) is generally consistent with previous monitoring events depicted on the rose diagram within Figure 3. The groundwater elevation contour map is presented on Figure 3.

Groundwater gauging and analytical data obtained during the second semi-annual gauging and sampling event are summarized in Table 1. Historical groundwater gauging and analytical data are summarized in Table 2. Analytical results above the Washington Department of Ecology Model Toxics Control Act (MTCA) Method A Cleanup Levels (CUL) are summarized below:

- DRO in well MW-111 at a concentration of 1,300 micrograms per liter ( $\mu\text{g/L}$ ), B-3 at a concentration of 1,280  $\mu\text{g/L}$ , and in B-4 at a concentration of 1,490  $\mu\text{g/L}$  exceeded the MTCA Method A CUL of 500  $\mu\text{g/L}$ . DRO concentrations using silica gel cleanup analysis were not detected above the MTCA Method A CUL for any wells.
- HO in well MW-111 at a concentration of 2,980  $\mu\text{g/L}$  and in B-4 at a concentration of 507  $\mu\text{g/L}$  exceeded the MTCA Method A CUL of 500  $\mu\text{g/L}$ . HO concentrations using silica gel cleanup analysis was not detected above the MTCA Method A CUL in any wells.
- GRO in well B-3 at a concentration of 807  $\mu\text{g/L}$  and in B-4 at a concentration of 1,360  $\mu\text{g/L}$  exceeded the MTCA Method A CUL of 800  $\mu\text{g/L}$  when benzene is present (or 1,000  $\mu\text{g/L}$  when benzene is not present).

With the exception of wells MW-111, B-3, and B-4, COPC concentrations in the well network were either not detected above laboratory reporting limits or detected at concentrations less than the MTCA Method A CULs. The groundwater analytical map is presented on Figure 4. A copy of the laboratory analytical report and chain-of-custody documentation are included as Attachment B.

## RECOMMENDATIONS

Arcadis recommends continuing semi-annual monitoring activities to further evaluate groundwater quality and concentration trends.

**LIMITATIONS**

This report was prepared in accordance with the scope of work outlined in Arcadis' contract and with generally accepted professional engineering and environmental consulting practices existing at the time this report was prepared and applicable to the location of the site. It was prepared for the exclusive use of Chevron Environmental Management Company for the express purpose stated above. Any re-use of this report for a different purpose or by others not identified above shall be at the user's sole risk without liability to Arcadis. To the extent that this report is based on information provided to Arcadis by third parties, Arcadis may have made efforts to verify this third-party information, but Arcadis cannot guarantee the completeness or accuracy of this information. The opinions expressed and data collected are based on the conditions of the site existing at the time of the field investigation. No other warranties expressed or implied are made by Arcadis.



Date: December 23, 2020

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Ada Hamilton  
Project Manager



Date: December 23, 2020

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Grayson Fish, L.G.  
Licensed Geologist

**ATTACHMENTS:**

Table 1            Groundwater Gauging Data and Select Analytical Results, November 7, 2020  
Table 2            Historic Groundwater Gauging Data and Select Analytical Results

Figure 1           Site Location Map  
Figure 2           Site Plan  
Figure 3           Groundwater Elevation Contour Map, November 7, 2020  
Figure 4           Groundwater Analytical Map, November 7, 2020

Attachment A    Field Data Sheets and General Procedures  
Attachment B    Laboratory Report and Chain-of-Custody Documentation

# TABLES



Table 1. Current Groundwater Gauging Data and Select Analytical Results  
 COWLITZ BP / COWLITZ Food and Fuel / Former Texaco Service Station No. 211556  
 101 Mulford Road  
 Toledo, Washington

Well	Date	TOC	DTW	NAPL	GWE	TPH-GRO	TPH-DRO	TPH-DRO w/Si gel	TPH-HRO	TPH-HRO w/Si gel	Benzene	Toluene	Ethylbenzene	Total Xylenes	Dissolved Lead	
MTCA Method A CULs						800/1,000	500	500	500	500	5	1,000	700	1,000	15	
MW-109	11/7/2020	107.35	6.62	0.00	100.73											
MW-110	11/7/2020	108.89	8.27	0.00	100.62											
MW-111	11/7/2020	107.12	6.45	0.00	100.67	511	1,300	144 B J	2,980	494 B	<1.00	1.15	0.415 J	<3.00	1.84 J	
MW-112	11/7/2020	107.58	6.94	0.00	100.64	183 B	<200	<200	131 J	<250	<1.00	<1.00	<1.00	<3.00	<5.00	
MW-113	11/7/2020	108.44	7.77	0.00	100.67	44.4 B J	<200	<200	<250	<250	<1.00	<1.00	<1.00	<3.00	0.888 J	
MW-114	11/7/2020	106.89	5.95	0.00	100.94											
MW-119	11/7/2020	108.35	--	--	--											
B-1	11/7/2020	107.74	6.60	0.00	101.14											
B-2	11/7/2020	108.99	7.59	0.00	101.40											
B-3	11/7/2020	108.46	7.51	0.00	100.95	807	1,280	122 B J	386	<250	0.240 J	<1.00	1.52	0.315 J	5.89	
B-4	11/7/2020	107.68	6.63	0.00	101.05	1,360	1,490	157 B J	507	<250	<1.00	<1.00	<1.00	<3.00	0.857 J	
TPWHD	11/7/2020	--	--	--	--	55.9 B J	<200	<200	<250	<250	<1.00	<1.00	<1.00	<3.00	<5.00	
QA	11/7/2020	--	--	--	--	43.1 B J	--	--	--	--	<1.00	<1.00	<1.00	<3.00	--	



**Table 1. Current Groundwater Gauging Data and Select Analytical Results**  
**COWLITZ BP / COWLITZ Food and Fuel / Former Texaco Service Station No. 211556**  
**101 Mulford Road**  
**Toledo, Washington**

**Notes:**

800/1,000 = GRO MTCA Method A CUL with benzene present is 800 µg/L and without is 1,000 µg/L

**BOLD and highlighted** values exceed their respective MTCA Method A cleanup level

**BOLD** values are non-detect do not exceed the laboratory Reporting limit (RL), but the RL exceeds the MTCA Method A cleanup level  
Results reported in micrograms per liter (µg/L)

**Abbreviations:**

TOC = Top of Casing in feet above North American Vertical Datum of 1988 (NAVD 88)

DTW = Depth to water in feet below TOC

NAPL = Non-aqueous phase liquid thickness in feet

GWE = Groundwater elevation in feet relative to NAVD88

-- = Not applicable, not available, or not analyzed

MTCA = Model Toxics Control Act Cleanup

CUL = Cleanup Level

DUP = Blind duplicate sample results

QA = Quality Assurance

**Laboratory Qualifiers:**

< = Not detected at or above the laboratory Reporting Limit (RL) or Limit of Quantification (LOQ)

J = Estimated value; result is greater than the laboratory Method Detection Limit (MDL) but less than the RL or LOQ.

B = The same analyte is found in the associated blank.

**Analytical Methods:**

Samples analyzed by USEPA Method 8260D

BTEX = benzene, toluene, ethylbenzene, and total xylenes

MTBE = Methyl tertiary butyl ether

TPH-GRO = Total Petroleum Hydrocarbons as Gasoline Range Organics analyzed by NWTPH-Gx

Samples analyzed by NWTPH-Dx

TPH-DRO = Total Petroleum Hydrocarbon as Diesel Range Organics

TPH-HRO = Total Petroleum Hydrocarbons as Heavy Oil Range Organics

Dissolved Lead analyzed by USEPA 6020B

Table 2. Historical Groundwater Gauging Data and Select Analytical Results  
 COWLITZ BP / COWLITZ Food and Fuel / Former Texaco Service Station No. 211556  
 101 Mulford Road  
 Toledo, Washington

Well	Date	TOC	DTW	NAPL	GWE	TPH-GRO	TPH-DRO	TPH-DRO w/Si gel	TPH-HRO	TPH-HRO w/Si gel	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Dissolved Lead	Comments
MW-103	02/14/1991	107.81	8.08	--	99.73	--	--	--	--	--	--	--	--	--	--	--	
MW-103	02/18/1992	107.81	8.08	--	99.73	--	--	--	--	--	--	--	--	--	--	--	
MW-103	03/09/1992	107.81	7.80	--	100.01	--	--	--	--	<50	--	--	--	--	--	--	
MW-103	03/13/1992	107.81	8.08	--	99.73	<-50	--	<250	--	<250	--	--	--	--	--	--	
MW-103	04/21/1992	107.81	7.78	--	100.03	<-50	--	--	--	--	--	--	--	--	--	--	
MW-103	03/03/1994	107.81	--	--	--	<-50	--	<250	--	<250	<13	--	--	--	--	--	
MW-103	06/13/1995	107.81	8.55	--	99.26	<-50	--	<250	--	<250	--	--	--	--	--	<3.0	
MW-103	08/22/1995	107.81	--	--	--	<-50	--	<250	--	<250	--	--	--	--	--	<2.0	
MW-103	08/23/1995	107.81	8.91	--	98.90	<-50	--	<250	--	<250	--	--	--	--	--	<2.0	
MW-103	11/28/1995	107.81	7.30	--	100.51	<-50	--	<250	--	<250	--	--	--	--	--	<2.0	
MW-103	03/12/1996	107.81	8.03	--	99.78	<-50	--	<250	--	<250	--	--	--	--	--	<2.0	
MW-103	06/26/1996	107.81	8.67	--	99.14	<-50	--	<250	--	<250	--	--	--	--	--	<2.0	
MW-103	10/09/1996	107.81	8.82	--	98.99	<-50	--	<250	--	<250	--	--	--	--	--	<2.0	
MW-103	02/12/1997	107.81	7.81	--	100.00	<-50	--	<250	--	<250	--	--	--	--	--	<2.0	
MW-103	04/22/1997	107.81	7.42	--	100.39	<-50	--	<250	--	<250	--	--	--	--	--	<2.0	
MW-103	08/05/1997	107.81	8.83	--	98.98	257	--	257	--	110	--	--	--	--	--	<2.0	
MW-103	11/11/1997	107.81	9.01	--	98.80	<-50	--	<250	--	<250	--	--	--	--	--	<2.0	
MW-103	02/11/1998	107.81	8.03	--	99.78	<-50	--	<250	--	<250	--	--	--	--	--	<2.0	
MW-103	05/28/1998	107.81	8.17	--	99.64	<-50	--	<250	--	<250	--	--	--	--	--	2.84	
MW-103	08/20/1998	107.81	9.21	--	98.60	<-50	--	<250	--	<250	--	--	--	--	--	<1.0	
MW-103	11/19/1998	107.81	9.03	--	98.78	<-50	--	<250	--	<250	--	--	--	--	--	<1.0	
MW-103	03/11/1999	107.81	7.51	--	100.30	<-50	--	<250	--	<250	--	--	--	--	--	<1.0	
MW-103	05/25/1999	107.81	8.51	--	99.30	<-50	--	<250	--	<250	--	--	--	--	--	--	
MW-103	08/17/1999	107.81	8.93	--	98.88	<-50	--	<250	--	<250	--	--	--	--	--	<1.0	
MW-103	11/19/1999	107.81	7.18	--	100.63	<-80	--	<250	--	<250	--	--	--	--	--	<1.0	
MW-103	03/09/2000	107.81	7.48	--	100.33	<-80	--	<250	--	<250	--	--	--	--	--	<1.0	
MW-103	06/13/2000	107.81	8.29	--	99.52	<-80	--	<250	--	<250	--	--	--	--	--	<1.0	
MW-103	09/26/2000	107.81	9.05	--	98.76	--	--	<250	--	<250	--	--	--	--	--	<1.0	
MW-103	12/13/2000	107.81	8.65	--	99.16	--	--	<250	--	<250	--	--	--	--	--	<1.0	
MW-103	02/28/2001	107.81	8.34	--	99.47	89	--	<250	--	<250	--	--	--	--	--	<1.0	
MW-103	05/02/2001	107.81	8.12	--	99.69	214	--	<250	--	<250	--	--	--	--	--	<1.0	
MW-103	12/30/2003	107.81	7.32	0.00	100.49	<110	--	<-50	--	<-85	<0.5	<0.5	<0.5	<1.5	--	<1.2	
MW-103	07/20/2004	107.81	9.09	0.00	98.72	<50.0	--	<250	--	<500	<0.500	<0.500	<0.500	<1.00	--	--	
MW-103	10/07/2004	107.81	8.66	0.00	99.15	--	--	<160	--	<50	--	--	--	--	--	--	
MW-103	01/27/2005	107.81	7.95	0.00	99.86	<48	--	<83	--	<83	--	--	--	--	--	--	
MW-103	04/12/2005	107.81	7.65	0.00	100.16	<48	--	<78	--	<78	--	--	--	--	--	--	
MW-103	07/18/2005	107.81	8.76	0.00	99.05	<48	--	<79	--	<79	--	--	--	--	--	--	
MW-103	10/21/2005	107.81	8.87	0.00	98.94	<48	--	<79	--	<79	--	--	--	--	--	--	
MW-103	08/12/2010	107.81	8.90	0.00	98.91	<50	--	30	--	120	<0.5	<0.5	<0.5	<0.5	<0.5	0.11	LFP
MW-103	11/3-4/2010	107.81	7.69	0.00	100.12	<50	--	<29	--	91	<0.5	<0.5	<0.5	<0.5	<0.5	0.17	
MW-103	2/3-4/2011	107.81	7.99	0.00	99.82	<50	--	<29	--	<67	<0.5	<0.5	<0.5	<0.5	<0.5	0.22	LFP
MW-103	05/24/2011	107.81	8.25	0.00	99.56	<50	--	30	--	340	<0.5	<0.5	<0.5	<0.5	<0.5	0.13	LFP
MW-103	11/7-9/2011	107.81	8.90	0.00	98.91	<50	--	<29	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	0.12	LFP
MW-103	2/6-8/2012	107.81	7.80	0.00	100.01	<50	--	<30	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080	LFP
MW-103	5/2-4/2012	107.81	8.05	0.00	99.76	<50	--	<30	--	<70	<0.5	<0.5	<0.5	<0.5	<0.5	0.083	LFP
MW-103	8/1-3/2012	107.81	8.95	0.00	98.86	<50	--	<30	--	<70	<0.5	<0.5	<0.5	<0.5	<0.5	0.088	LFP
MW-103	11/26-28/2012	107.81	7.36	0.00	100.45	<50	--	<29	--	<68	<0.5	<0.5	<0.5	<0.5	<0.5	<0.047	LFP
MW-103	2/4-6/2013	107.81	7.85	0.00	99.96	<50	--	<28	--	<66	<0.5	<0.5	<0.5	<0.5	<0.5	0.087	LFP
MW-103	5/6-8/2013	107.81	8.60	0.00	99.21	<50	--	<29	--	<67	<0.5	<0.5	<0.5	<0.5	<0.5	0.13	LFP
MW-103	9/9-13/2013	107.81	8.55	0.00	99.26	<50	<29	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	<0.5	0.11	LFP
MW-103	11/18-21/2013	107.81	7.62	0.00	100.19	<50	<29	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	<0.5	0.21	LFP
MW-103	2/4-11/2014	107.81	8.36	0.00	99.45	<50	<29	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	<0.5	0.11	LFP
MW-103	8/18-21/2014	107.81	6.81	0.00	101.00	62	<29	<29	<68	<68	<0.5	<0.5	<0.5	<0.5	<0.5	0.18	LFP
MW-103	11/19-20/2014	107.81	8.41	0.00	99.40	<50	<29	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082	LFP
MW-103	2/17-20/2015	107.81	7.83	0.00	99.98	<50	<29	<29	<69	<69	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082	LFP
MW-103	5/11-15/2015	107.81	8.77	0.00	99.04	<50	<28	<28	<66	<66	<0.5	<0.5	<0.5	<0.5	<0.5	0.12	LFP
MW-103	8/10-11/2015	107.81	9.35	0.00	98.46	<50	<28	<28	<66	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.13	LFP
MW-103	11/16-18/2015	107.81	6.67	0.00	101.14	<50	<28	<28	<66	<66	<0.5	<0.5	<0.5	<0.5	<0.5	0.00	LFP
MW-103	5/13-14/2016	107.81	8.60	0.00	99.21	--	--	--	--	--	--	--	--	--	--	--	
MW-103	11/14/2016	107.81	7.83	0.00	99.98	--	--	--	--	--	--	--	--	--	--	--	
MW-103	05/14/2017	107.81	7.87	0.00	99.94	--	--	--	--	--	--	--	--	--	--	--	
MW-103	11/11-12/2017	107.81	7.93	0.00	99.88	--	--	--	--	--	--	--	--	--	--	--	



Table 2. Historical Groundwater Gauging Data and Select Analytical Results  
 COWLITZ BP / COWLITZ Food and Fuel / Former Texaco Service Station No. 211556  
 101 Mulford Road  
 Toledo, Washington

Well	Date	TOC	DTW	NAPL	GWE	TPH-GRO	TPH-DRO	TPH-DRO w/Si gel	TPH-HRO	TPH-HRO w/Si gel	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Dissolved Lead	Comments
MW-109	11/19-20/2014	107.35	7.38	0.00	99.97	<50	<29	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082	LFP
MW-109	2/17-20/2015	107.35	6.91	0.00	100.44	<50	<30	<30	<69	<69	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082	LFP
MW-109	5/11-15/2015	107.35	7.29	0.00	100.06	<50	<29	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	<0.5	0.12	LFP
MW-109	8/10-11/2015	107.35	8.62	0.00	98.73	<50	130	<29	640	210	<0.5	<0.5	<0.5	<0.5	<0.5	136	LFP
MW-109	11/16-18/2015	107.35	5.34	0.00	102.01	<50	36	<28	97	<66	<0.5	<0.5	<0.5	<0.5	<0.5	0.0028	LFP
MW-109	5/13-14/2016	107.35	7.76	0.00	99.59	<50	<28	<28	<66	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.13	LFP
MW-109	11/14/2016	107.35	6.40	0.00	100.95	<50	77	<28	65	<65	<0.5	<0.5	<0.5	<0.5	<0.5	0.55	LFP
MW-109	05/14/2017	107.35	6.70	0.00	100.65	<50	45	<28	260	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.090	LFP
MW-109	11/11-12/2017	107.35	6.61	0.00	100.74	<50	<30	<30	<70	<70	<0.5	<0.5	<0.5	<0.5	<0.5	0.40	LFP
MW-109	05/11/2018	107.35	7.38	0.00	99.97	<50	<28	31	<66	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.11	LFP
MW-109	11/11-12/2018	107.35	7.47	0.00	99.88	<19	40	<28	260	96	<0.2	<0.2	<0.4	<1	<1	<1.1	LFP
MW-109	04/27/2019	107.35	7.28	0.00	100.07	<19	97	<30	<67	<67	<0.2	<0.2	<0.4	<1	<1	<1.1	LFP
MW-109	11/03/2019	107.35	7.49	0.00	99.86	<19	41 J	<30	95 J	<68	<0.2	<0.2	<0.4	<1	<1	29.4	LFP
MW-109	05/06/2020	107.35	7.50	0.00	99.85	51.3 B J	<200	<200	<250	<250	<1.00	<1.00	<1.00	<3.00	<3.00	<5.00	LFP
MW-109	11/7/2020	107.35	6.62	0.00	100.73												WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY
MW-110	08/22/1995	108.89	9.62	0.00	99.27	11,000	--	400	--	<750	--	--	--	--	--	--	--
MW-110	11/28/1995	108.89	8.08	0.00	100.81	6,000	--	540	--	<750	--	--	--	--	--	--	14
MW-110	03/12/1996	108.89	8.74	0.00	100.15	3,600	--	340	--	<750	--	--	--	--	--	--	14
MW-110	06/26/1996	108.89	9.41	0.00	99.48	2,750	--	274	--	<750	--	--	--	--	--	--	8.14
MW-110	10/09/1996	108.89	9.67	0.00	99.22	1,160	--	<250	--	<750	--	--	--	--	--	--	5.96
MW-110	02/12/1997	108.89	8.42	0.00	100.47	1,830	--	393	--	<750	--	--	--	--	--	--	11.7
MW-110	04/22/1997	108.89	8.18	0.00	100.71	1,950	--	371	--	<750	--	--	--	--	--	--	7.27
MW-110	08/05/1997	108.89	9.80	0.00	99.09	1,480	--	282	--	<750	--	--	--	--	--	--	3.16
MW-110	11/11/1997	108.89	8.57	0.00	100.32	2,330	--	659	--	<750	--	--	--	--	--	--	22.9
MW-110	02/11/1998	108.89	8.54	0.00	100.35	2,040	--	390	--	<750	--	--	--	--	--	--	15.3
MW-110	05/28/1998	108.89	8.69	0.00	100.20	1,350	--	324	--	<750	--	--	--	--	--	--	15.5
MW-110	08/20/1998	108.89	10.91	0.00	97.98	812	--	<250	--	<750	--	--	--	--	--	--	1.55
MW-110	11/19/1998	108.89	9.51	0.00	99.38	637	--	258	--	<750	--	--	--	--	--	--	7.27
MW-110	03/11/1999	108.89	8.09	0.00	100.80	2,350	--	486	--	<500	--	--	--	--	--	--	11
MW-110	05/25/1999	108.89	9.28	0.00	99.61	2,950	--	<250	--	--	--	--	--	--	--	--	--
MW-110	08/17/1999	108.89	9.81	0.00	99.08	749	--	<250	--	<500	--	--	--	--	--	--	2.2
MW-110	11/19/1999	108.89	7.77	0.00	101.12	2,030	--	453	--	--	--	--	--	--	--	--	32.4
MW-110	03/09/2000	108.89	8.15	0.00	100.74	3,780	--	<250	--	<500	--	--	--	--	--	--	9.59
MW-110	06/13/2000	108.89	8.81	0.00	100.08	2,330	--	<250	--	<500	--	--	--	--	--	--	5.45
MW-110	09/26/2000	108.89	9.98	0.00	98.91	--	--	<250	--	<500	--	--	--	--	--	--	2.83
MW-110	12/13/2000	108.89	9.37	0.00	99.52	1,340	--	<250	--	<500	--	--	--	--	--	--	4.15
MW-110	02/28/2001	108.89	9.07	0.00	99.82	1,800	--	<250	--	<500	--	--	--	--	--	--	6.32
MW-110	05/02/2001	108.89	8.62	0.00	100.27	905	--	<250	--	<500	--	--	--	--	--	--	4.23
MW-110	10/30/2002	108.89	10.28	0.00	98.61	3,880	--	<250	--	<500	<2.50	<2.50	22.5	108	--	--	6.36
MW-110	01/23/2003	108.89	8.74	0.00	100.15	1,190	--	<250	--	<500	0.902	0.585	9.83	13.9	--	--	26.5
MW-110	04/18/2003	108.89	8.40	0.00	100.49	499	--	<250	--	<500	1.94	<0.500	0.799	1.65	--	--	16.8
MW-110	07/11/2003	108.89	9.99	0.00	98.90	586	--	<250	--	<500	1.76	<0.500	1.08	1.11	--	--	2,115
MW-110	10/31/2003	108.89	9.25	0.00	99.64	184	--	<250	--	<500	0.529	<0.500	<0.500	<1.0	--	--	<1.0
MW-110	12/31/2003	108.89	7.94	0.00	100.95	<99	--	1,800	410	<10	<2.0	23	25	--	--	--	17.3
MW-110	05/03/2004	108.89	9.56	0.00	99.33	454	--	<250	--	<500	1.8	<0.500	<0.500	<1.0	--	--	3,865
MW-110	07/20/2004	108.89	10.03	0.00	98.86	308	--	<250	--	<500	0.893	<0.500	<0.500	<1.0	--	--	<1.0
MW-110	10/06/2004	108.89	9.38	0.00	99.51	160	--	<79	--	<99	--	--	--	--	--	--	--
MW-110	01/27/2005	108.89	8.65	0.00	100.24	150	--	<81	--	<100	--	--	--	--	--	--	--
MW-110	04/12/2005	108.89	8.22	0.00	100.67	290	--	370	--	<100	--	--	--	--	--	--	--
MW-110	07/18/2005	108.89	9.50	0.00	99.39	100	--	<79	--	<99	--	--	--	--	--	--	--
MW-110-DUP	07/18/2005	108.89	9.50	0.00	99.39	100	--	<79	--	<99	--	--	--	--	--	--	--
MW-110	10/20/2005	108.89	9.62	0.00	99.27	110	--	82	--	100	--	--	--	--	--	--	--
MW-110	09/04/2007	108.89	10.08	0.00	98.81	290	--	<150	--	220	--	--	--	--	--	--	5
MW-110	5/27-28/2008	108.89	9.52	0.00	99.37	210	--	<76	--	<96	<0.5	<0.5	9	0.7	<0.5	<0.5	9.1
MW-110	8/27-29/2008	108.89	9.60	0.00	99.29	240	--	120	--	<100	<5	<5	<5	<5	<5	1.5	LFP
MW-110	11/17-19/2008	108.89	8.17	0.00	100.72	150	--	410	--	<68	<0.5	<0.5	<0.5	<0.5	<0.5	34.1	LFP
MW-110	2/16-18/2009	108.89	9.23	0.00	99.66	<50	--	58	--	170	<0.5	<0.5	<0.5	<0.5	<0.5	27.7	LFP
MW-110	5/4-6/2009	108.89	8.60	0.00	100.29	96	--	380	--	670	<0.5	<0.5	<0.5	<0.5	<0.5	5.4	LFP
MW-110	8/19-21/2009	108.89	9.98	0.00	98.91	69	--	<30	--	76	<0.5	<0.5	<0.5	<0.5	<0.5	0.63	LFP
MW-110	11/18-20/2009	108.89	6.97	0.00	101.92	670	--	200	--	<67	<0.5	<0.5	2	<0.5	<0.5	5	LFP
MW-110	2/8-10/2010	108.89	8.64	0.00	100.25	<50	--	51	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	12.5	LFP
MW-110	5/12-13/2010	108.89	9.08	0.00	99.81	<50	--	39	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	4.2	LFP
MW-110	08/11/2010	108.89	9.75	0.00	99.14	<50	--	<29	--	<68	<0.5	<0.5	<0.5	<0.5	<0.5	0.4	LFP

Table 2. Historical Groundwater Gauging Data and Select Analytical Results  
 COWLITZ BP / COWLITZ Food and Fuel / Former Texaco Service Station No. 211556  
 101 Mulford Road  
 Toledo, Washington



Well	Date	TOC	DTW	NAPL	GWE	TPH-GRO	TPH-DRO	TPH-DRO w/Si gel	TPH-HRO	TPH-HRO w/Si gel	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Dissolved Lead	Comments
MW-110	11/3-4/2010	108.89	8.15	0.00	100.74	<50	--	49	--	98	<0.5	<0.5	<0.5	<0.5	<0.5	2.5	LFP
MW-110	2/3-4/2011	108.89	8.77	0.00	100.12	<50	--	<30	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	0.72	LFP
MW-110	05/24/2011	108.89	8.90	0.00	99.99	<50	--	<29	--	180	<0.5	<0.5	<0.5	<0.5	<0.5	0.43	LFP
MW-110	8/23-24/11	108.89	9.96	0.00	98.93	<50	--	<30	--	<70	<0.5	<0.5	<0.5	<0.5	<0.5	0.62	LFP
MW-110	11/7-9/2011	108.89	9.30	0.00	99.59	95	--	<31	--	<72	<0.5	<0.5	<0.5	<0.5	<0.5	0.22	LFP
MW-110	2/6-8/2012	108.89	8.40	0.00	100.49	<50	--	<30	--	<70	<0.5	<0.5	<0.5	<0.5	<0.5	0.22	LFP
MW-110	5/2-4/2012	108.89	8.40	0.00	100.49	<50	--	<31	--	<72	<0.5	<0.5	<0.5	<0.5	<0.5	0.23	LFP
MW-110	8/1-3/2012	108.89	8.46	0.00	100.43	<50	--	50	--	<66	<0.5	<0.5	<0.5	<0.5	<0.5	0.093	LFP
MW-110	11/26-28/2012	108.89	7.95	0.00	100.94	<50	--	<29	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	0.30	LFP
MW-110	2/4-6/2013	108.89	8.38	0.00	100.51	<50	--	<30	--	<70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073	LFP
MW-110	5/6-8/2013	108.89	9.52	0.00	99.37	<50	--	<29	--	<67	<0.5	<0.5	<0.5	<0.5	<0.5	0.23	LFP
MW-110	9/9-13/2013	108.89	9.03	0.00	99.86	<50	<28	<28	<66	<66	<0.5	<0.5	<0.5	<0.5	<0.5	0.39	LFP
MW-110	11/18-21/2013	108.89	8.22	0.00	100.67	<50	<29	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	<0.5	0.33	LFP
MW-110	2/4-11/2014	108.89	8.98	0.00	99.91	<50	<29	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	<0.5	0.16	LFP
MW-110	6/12-14/2014	108.89	9.50	0.00	99.39	<50	<29	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	<0.5	0.22	LFP
MW-110	8/18-21/14	108.89	8.53	0.00	100.36	<50	<28	<28	<66	<66	<0.5	<0.5	<0.5	<0.5	<0.5	0.10	LFP
MW-110	11/19-20/2014	108.89	9.08	0.00	99.81	<50	<29	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	<0.5	0.94	LFP
MW-110	2/17-20/2015	108.89	8.39	0.00	100.50	<50	<30	<30	<70	<70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082	LFP
MW-110	5/11-15/2015	108.89	9.51	0.00	99.38	<50	<28	<28	<66	<66	<0.5	<0.5	<0.5	<0.5	<0.5	0.46	LFP
MW-110	8/10-11/2015	108.89	10.23	0.00	98.66	<50	<28	<28	<66	<66	<0.5	<0.5	<0.5	<0.5	<0.5	0.88	LFP
MW-110	11/16-18/2015	108.89	6.54	0.00	102.35	<50	<29	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	<0.5	0.00	LFP
MW-110	5/13-14/2016	108.89	9.04	0.00	99.85												
MW-110	11/14/2016	108.89	8.21	0.00	100.68												
MW-110	05/14/2017	108.89	8.40	0.00	100.49												
MW-110	11/11-12/2017	108.89	8.44	0.00	100.45												
MW-110	05/11/2018	108.89	9.12	0.00	99.77												
MW-110	11/11-12/2018	108.89	9.30	0.00	99.59												
MW-110	04/27/2019	108.89	8.93	0.00	99.96												
MW-110	11/03/2019	108.89	9.15	0.00	99.74												
MW-110	05/05/2020	108.89	9.15	0.00	99.74												
MW-110	11/7/2020	108.89	8.27	0.00	100.62												
MW-111	08/22/1995	107.12	7.86	0.00	99.26	33,000	--	360	--	<750	--	--	--	--	--	--	
MW-111	11/28/1995	107.12	6.14	0.00	100.98	17,000	--	640	--	<750	--	--	--	--	--	10	
MW-111	03/12/1996	107.12	6.84	0.00	100.28	11,000	--	290	--	<750	--	--	--	--	--	7.6	
MW-111	06/26/1996	107.12	7.55	0.00	99.57	7,690	--	479	--	<750	--	--	--	--	--	4.8	
MW-111	10/09/1996	107.12	7.81	0.00	99.31	3,560	--	256	--	<750	--	--	--	--	--	4.7	
MW-111	02/12/1997	107.12	6.52	0.00	100.60	17,200	--	631	--	<750	--	--	--	--	--	8.7	
MW-111	04/22/1997	107.12	6.31	0.00	100.81	13,800	--	920	--	<750	--	--	--	--	--	5.3	
MW-111	08/05/1997	107.12	7.90	0.00	99.22	4,290	--	444	--	<750	--	--	--	--	--	3.5	
MW-111	11/11/1997	107.12	6.70	0.00	100.42	14,300	--	770	--	<750	--	--	--	--	--	12.4	
MW-111	02/11/1998	107.12	6.65	0.00	100.47	13,600	--	587	--	<750	--	--	--	--	--	8.3	
MW-111	05/28/1998	107.12	6.89	0.00	100.23	11,200	--	526	--	<750	--	--	--	--	--	16.6	
MW-111	08/20/1998	107.12	9.08	0.00	98.04	5,950	--	637	--	<750	--	--	--	--	--	1.7	
MW-111	11/19/1998	107.12	7.60	0.00	99.52	10,500,000	--	3,890	--	<750	--	--	--	--	--	2.2	
MW-111	01/22/1999	107.12	5.36	0.00	101.76	19,000	--	--	--	--	--	--	--	--	--	--	
MW-111	03/11/1999	107.12	6.19	0.00	100.93	6,910	--	611	--	<500	--	--	--	--	--	6.3	
MW-111	05/25/1999	107.12	7.43	0.00	99.69	8,500	--	388	--	--	--	--	--	--	--	4.2	
MW-111	08/17/1999	107.12	7.98	0.00	99.14	17,600	--	547	--	<500	--	--	--	--	--	3	
MW-111	11/19/1999	107.12	5.87	0.00	101.25	27,900	--	547	--	--	--	--	--	--	--	14.4	
MW-111	03/09/2000	107.12	6.27	0.00	100.85	20,800	--	12,400	--	646	--	--	--	--	--	11.8	
MW-111	06/13/2000	107.12	6.91	0.00	100.21	29,600	--	7,670	--	<500	--	--	--	--	--	12.8	
MW-111	09/26/2000	107.12	8.37	0.00	98.75	--	--	--	--	--	--	--	--	--	--	--	
MW-111	12/13/2000	107.12	7.65	0.00	99.47	23,100	--	13,800	--	<500	--	--	--	--	--	4.1	
MW-111	02/28/2001	107.12	7.26	0.00	99.86	16,400	--	3,740	--	<500	--	--	--	--	--	5.6	
MW-111	05/02/2001	107.12	6.89	0.00	100.23	17,700	--	7,530	--	<500	--	--	--	--	--	10.7	
MW-111	10/30/2002	107.12	8.70	0.28	98.64	--	--	--	--	--	--	--	--	--	--	--	
MW-111	01/23/2003	107.12	6.99	0.04	100.16	--	--	--	--	--	--	--	--	--	--	--	Not Sampled Due to the Presence of NAPL
MW-111	04/18/2003	107.12	6.89	0.06	100.28	--	--	--	--	--	--	--	--	--	--	--	Not Sampled Due to the Presence of NAPL
MW-111	07/11/2003	107.12	8.25	0.07	98.93	--	--	--	--	--	--	--	--	--	--	--	Not Sampled Due to the Presence of NAPL
MW-111	10/31/2003	107.12	7.48	0.03	99.66	--	--	--	--	--	--	--	--	--	--	--	Not Sampled Due to the Presence of NAPL
MW-111	12/31/2003	107.12	6.40	0.00	100.72	300	--	50,000	--	2,800	8.3	6.5	1,100	3,300	--	15.2	
MW-111	05/03/2004	107.12	7.79	0.03	99.35	--	--	--	--	--	--	--	--	--	--	--	Not Sampled Due to the Presence of NAPL
MW-111	07/20/2004	107.12	8.16	0.06	99.01	--	--	--	--	--	--	--	--	--	--	--	Not Sampled Due to the Presence of NAPL

Table 2. Historical Groundwater Gauging Data and Select Analytical Results  
 COWLITZ BP / COWLITZ Food and Fuel / Former Texaco Service Station No. 211556  
 101 Mulford Road  
 Toledo, Washington

Well	Date	TOC	DTW	NAPL	GWE	TPH-GRO	TPH-DRO	TPH-DRO w/Si gel	TPH-HRO	TPH-HRO w/Si gel	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Dissolved Lead	Comments	
MW-111	10/06/2004	107.12	7.54	0.00	99.58	5,700	--	240	--	<100	--	--	--	--	--	--		
MW-111	01/27/2005	107.12	6.79	0.00	100.33	8,800	--	310	--	<98	--	--	--	--	--	--		
MW-111-DUP	01/27/2005	107.12	6.79	0.00	100.33	9,100	--	310	--	<98	--	--	--	--	--	--		
MW-111	04/12/2005	107.12	6.32	0.00	100.80	10,000	--	820	--	<100	--	--	--	--	--	--		
MW-111-DUP	04/12/2005	107.12	6.32	0.00	100.80	10,000	--	850	--	<110	--	--	--	--	--	--		
MW-111	07/18/2005	107.12	7.75	0.00	99.37	6,300	--	460	--	<96	--	--	--	--	--	--		
MW-111	10/20/2005	107.12	7.84	0.00	99.28	--	--	--	--	--	--	--	--	--	--	--		
MW-111	09/04/2007	107.12	8.26	0.00	98.86	6,800	--	1,100	--	<220	--	--	--	--	--	--	2.8	
MW-111	09/04/2007	107.12	--	--	--	<50	--	<81	--	<100	--	--	--	--	--	--	<0.047	
MW-111	5/27-28/2008	107.12	7.64	0.00	99.48	--	--	--	--	--	--	--	--	--	--	--	Feet	
MW-111	8/27-29/2008	107.12	7.71	0.00	99.41	--	--	--	--	--	--	--	--	--	--	--	Feet	
MW-111	11/17-19/2008	107.12	6.27	0.00	100.85	18,000	--	2,300	--	<1,400	3	<1	300	220	<1	36.8	LFP	
MW-111	2/16-18/2009	107.12	7.36	0.00	99.76	20,000	--	350	--	74	4	2	190	110	<1	8.5	LFP	
MW-111	5/4-6/2009	107.12	6.62	0.00	100.50	13,000	--	1,200	--	<70	8	2	220	120	<0.5	20.1	LFP	
MW-111	8/19-21/2009	107.12	8.12	0.00	99.00	11,000	--	780	--	<70	4	0.6	180	130	<0.5	5.3	LFP	
MW-111	11/18-20/2009	107.12	5.42	0.00	101.70	4,700	--	400	--	<68	5	0.7	53	21	<0.5	6.3	LFP	
MW-111	2/08-10/2010	107.12	6.79	0.00	100.33	19,000	--	2,700	--	<140	16	1	270	110	<0.5	18.8	LFP	
MW-111	5/11-13/2010	107.12	7.25	0.00	99.87	21,000	--	3,400	--	380	10	1	300	110	<1	22.6	LFP	
MW-111	08/11/2010	107.12	7.92	0.00	99.20	9,200	--	1,300	--	70	4	<1	220	55	<1	20.2	LFP	
MW-111	11/3-4/2010	107.12	6.12	0.00	101.00	7,000	--	1,700	--	640	4	<1	160	68	<1	29.5	LFP	
MW-111	2/3-4/2011	107.12	6.91	0.00	100.21	14,000	--	2,800	--	<340	10	0.9	250	72	<0.5	19.9	LFP	
MW-111	05/24/2011	107.12	7.03	0.00	100.09	2,700	--	500	--	130	<0.5	<0.5	65	15	<0.5	2.8	LFP	
MW-111	8/23-24/11	107.12	9.16	0.00	97.96	6,900	--	1,600	--	<69	3	<0.5	130	11	<0.5	12.2	LFP	
MW-111	11/7-9/2011	107.12	7.85	0.00	99.27	20,000	--	4,700	--	<730	1	<1	140	26	<1	45.8	LFP	
MW-111	2/6-8/2012	107.12	6.55	0.00	100.57	5,100	--	690	--	110	5	<0.5	140	<0.5	<0.5	22.1	LFP	
MW-111	5/2-4/2012	107.12	6.50	0.00	100.62	4,400	--	420	--	<68	5	0.7	170	23	<0.5	8.9	LFP	
MW-111	8/1-3/2012	107.12	7.93	0.00	99.19	6,900	--	620	--	140	0.6	<0.5	<0.5	12	<0.5	22.9	LFP	
MW-111	11/26-28/2012	107.12	6.07	0.00	101.05	5,200	--	15,000	--	<3,500	4	<0.5	140	32	<0.5	36.1	LFP	
MW-111	2/4-6/2013	107.12	6.53	0.00	100.59	7,500	--	2,300	--	710	<3	<3	120	24	<0.5	17.8	LFP	
MW-111	5/6-8/2013	107.12	7.46	0.00	99.66	5,500	--	300	--	<67	2	<0.5	100	13	<0.5	16.6	LFP	
MW-111	9/9-13/2013	107.12	7.15	0.00	99.97	5,500	3,600	330	89	<66	1	<0.5	110	39	<0.5	59.4	LFP	
MW-111	11/18-22/2013	107.12	6.42	0.00	100.70	3,300	1,000	370	<66	<66	0.9	<0.5	77	13	<0.5	17.8	LFP	
MW-111	2/4-11/2014	107.12	7.11	0.00	100.01	4,800	1,000	410	<68	<68	1	<0.5	75	7	<0.5	27.3	LFP	
MW-111	6/12-14/2014	107.12	7.70	0.00	99.42	4,200	1,200	380	83	<67	2	<0.5	130	14	<0.5	16.1	LFP	
MW-111	8/18-21/14	107.12	8.07	0.00	99.05	4,700	1,400	310	100	<67	1	<0.5	49	1	<0.5	1.09	LFP	
MW-111	11/19-20/2014	107.12	6.47	0.00	100.65	6,000	1,800	430	320	<69	2	<0.5	120	11	<0.5	45.3	LFP	
MW-111	2/17-20/2015	107.12	6.57	0.00	100.55	3,600	730	230	180	<68	1	<0.5	44	3	<0.5	14.3	LFP	
MW-111	5/11-15/2015	107.12	9.02	0.00	98.10	4,400	1,000	320	<66	<66	1	<0.5	71	5	<0.5	0.0202	LFP	
MW-111	8/10-11/2015	107.12	8.43	0.00	98.69	4,500	2,700	470	93	<67	<3	<3	31	6	<3	12.5	LFP	
MW-111	11/16-18/2015	107.12	4.59	0.00	102.53	1,900	450	150	270	<67	<0.5	<0.5	9	1	<0.5	0.0078	LFP	
MW-111	5/13-14/2016	107.12	8.95	0.00	98.17	4,200	1,200	350	1,600	680	<0.5	<0.5	19	2	--	7.8	LFP	
MW-111	11/14/2016	107.12	--	--	--	--	--	--	--	--	WELL FLOODED - UNABLE TO ACCESS						--	
MW-111	05/14/2017	107.12	6.37	0.00	100.75	9,200	1,200	490	1,400	630	1	<0.5	46	3	--	10.3	LFP	
MW-111	11/11-12/2017	107.12	--	--	--	--	--	--	--	--	UNABLE TO ACCESS						--	
MW-111	05/11/2018	107.12	7.57	0.00	99.55	6,600	1,400	440	970	400	14	2	45	3	<0.5	13.8	LFP	
MW-111	11/11-12/2018	107.12	7.31	0.00	99.81	4,000	3,300	300	320	<68	3	0.6	33	3	--	92.8	LFP	
MW-111	04/27/2019	107.12	7.11	0.00	100.01	5,800	1,800	900	1,900	1,100	3	0.6 J	29	2 J	--	17.8	LFP	
MW-111	11/03/2019	107.12	7.31	0.00	99.81	4,500	2,100	250	970	400	1	0.3 J	20	2 J	--	49.4	LFP	
MW-111	05/06/2020	107.12	7.60	0.00	99.52	37.8 B J	1,530	739	1,670	1,050	0.824 J	0.394 J	14	1.53 J	--	10.2		
MW-111	11/7/2020	107.12	6.45	0.00	100.67	511	1,300	144 B J	2,980	494 B	<1.00	1.15	0.415 J	<3.00	--	1.84 J		
MW-112	08/22/1995	107.58	8.42	0.00	99.16	480	--	<250	--	<750	--	--	--	--	--	--		
MW-112	11/28/1995	107.58	6.73	0.00	100.85	150	--	<250	--	<750	--	--	--	--	--	--	5.8	
MW-112	03/12/1996	107.58	7.43	0.00	100.15	250	--	<250	--	<750	--	--	--	--	--	--	<2.0	
MW-112	06/26/1996	107.58	8.12	0.00	99.46	63.8	--	<250	--	<750	--	--	--	--	--	--	<2.0	
MW-112	10/09/1996	107.58	8.36	0.00	99.22	93.1	--	<250	--	<750	--	--	--	--	--	--	2.62	
MW-112	02/12/1997	107.58	7.11	0.00	100.47	1,250	--	322	--	<750	--	--	--	--	--	--	2.99	
MW-112	04/22/1997	107.58	6.85	0.00	100.73	323	--	<250	--	<750	--	--	--	--	--	--	<2.0	
MW-112	08/05/1997	107.58	8.45	0.00	99.13	124	--	<250	--	<750	--	--	--	--	--	--	<2.0	
MW-112	11/11/1997	107.58	7.26	0.00	100.32	112	--	<250	--	<750	--	--	--	--	--	--	<2.0	
MW-112	02/11/1998	107.58	7.25	0.00	100.33	658	--	<250	--	<750	--	--	--	--	--	--	<2.0	
MW-112	05/28/1998	107.58	7.46	0.00	100.12	713	--	315	--	<750	--	--	--	--	--	--	10.4	
MW-112	08/20/1998	107.58	9.64	0.00	97.94	<50	--	<250	--	<750	--	--	--	--	--	--	<1.0	
MW-112	11/19/1998	107.58	8.20	0.00	99.38	367	--	<250	--	<750	--	--	--	--	--	--	<1.0	

Table 2. Historical Groundwater Gauging Data and Select Analytical Results  
 COWLITZ BP / COWLITZ Food and Fuel / Former Texaco Service Station No. 211556  
 101 Mulford Road  
 Toledo, Washington



Well	Date	TOC	DTW	NAPL	GWE	TPH-GRO	TPH-DRO	TPH-DRO w/Si gel	TPH-HRO	TPH-HRO w/Si gel	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Dissolved Lead	Comments
MW-112	03/11/1999	107.58	6.79	0.00	100.79	1,370	--	<250	--	<500	--	--	--	--	--	1.42	
MW-112	05/25/1999	107.58	7.97	0.00	99.61	<80	--	<250	--	--	--	--	--	--	--	--	
MW-112	08/17/1999	107.58	8.51	0.00	99.07	106	--	<250	--	<500	--	--	--	--	--	<1.6	
MW-112	11/19/1999	107.58	6.46	0.00	101.12	<80	--	<250	--	--	--	--	--	--	--	<1.0	
MW-112	03/09/2000	107.58	6.85	0.00	100.73	<80	--	<250	--	<500	--	--	--	--	--	<1.0	
MW-112	06/13/2000	107.58	7.48	0.00	100.10	824	--	<250	--	<500	--	--	--	--	--	2.14	
MW-112	09/26/2000	107.58	8.66	0.00	98.92	--	--	<250	--	<500	--	--	--	--	--	<1.0	
MW-112	12/13/2000	107.58	8.07	0.00	99.51	<80	--	<250	--	<500	--	--	--	--	--	<1.0	
MW-112	02/28/2001	107.58	7.77	0.00	99.81	<80	--	<250	--	<500	--	--	--	--	--	<1.0	
MW-112	05/02/2001	107.58	7.31	0.00	100.27	710	--	<250	--	<500	--	--	--	--	--	1.44	
MW-112	10/30/2002	107.58	8.95	0.00	98.63	95.7	--	<250	--	<500	<0.500	<0.500	<0.500	<1.00	--	2.63	
MW-112	01/23/2003	107.58	7.39	0.00	100.19	178	--	<250	--	<500	<0.500	<0.500	0.730	<1.00	--	<1.0	
MW-112	04/18/2003	107.58	7.28	0.00	100.30	93.4	--	<250	--	<500	<0.500	<0.500	<0.500	<1.00	--	<1.0	
MW-112	07/11/2003	107.58	8.68	0.00	98.90	<50.0	--	--	--	--	<0.500	<0.500	<0.500	<1.00	--	<1.0	
MW-112	10/31/2003	107.58	8.04	0.00	99.54	<50.0	--	<250	--	<500	<0.500	<0.500	<0.500	<1.00	--	<1.0	
MW-112	12/30/2003	107.58	6.62	0.00	100.96	<97	--	<50	--	<77	<0.5	<0.5	<0.5	<1.5	--	<1.2	
MW-112	05/03/2004	107.58	8.22	0.00	99.36	<50.0	--	<250	--	<500	<0.500	<0.500	<0.500	<1.00	--	<1.0	
MW-112	07/20/2004	107.58	8.69	0.00	98.89	<50.0	--	<250	--	<500	<0.500	<0.500	<0.500	<1.00	--	--	
MW-112	10/07/2004	107.58	8.06	0.00	99.52	<50	--	<82	--	<100	--	--	--	--	--	--	
MW-112	07/18/2005	107.58	8.26	0.00	99.32	<48	--	<77	--	<96	--	--	--	--	--	--	
MW-112	10/21/2005	107.58	8.25	0.00	99.33	48	--	<82	--	<100	--	--	--	--	--	--	
MW-112	09/05/2007	107.58	8.79	0.00	98.79	<50	--	<79	--	<99	--	--	--	--	--	0.52	
MW-112	5/27-28/2008	107.58	8.22	0.00	99.36	<50	--	<80	--	<100	<0.5	<0.5	<0.5	<0.5	<0.5	0.24	LFP
MW-112	8/27-29/2008	107.58	8.26	0.00	99.32	<50	--	<79	--	<99	<0.5	<0.5	<0.5	<0.5	<0.5	0.92	LFP
MW-112	11/17-19/2008	107.58	6.87	0.00	100.71	<50	--	<30	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	0.057	LFP
MW-112	2/16-18/2009	107.58	7.92	0.00	99.66	<50	--	<30	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	0.51	LFP
MW-112	5/4-06/2009	107.58	7.26	0.00	100.32	380	--	120	--	<69	2	<0.5	<0.5	<0.5	<0.5	2.1	LFP
MW-112	8/19-21/2009	107.58	8.67	0.00	98.91	<50	--	<30	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	0.27	LFP
MW-112	11/18-20/2009	107.58	5.58	0.00	102.00	<50	--	<29	--	<68	<0.5	<0.5	<0.5	<0.5	<0.5	0.36	LFP
MW-112	2/8-10/2010	107.58	7.35	0.00	100.23	<50	--	<29	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	0.46	LFP
MW-112	5/12-13/2010	107.58	7.77	0.00	99.81	<50	--	<29	--	<68	<0.5	<0.5	<0.5	<0.5	<0.5	0.58	LFP
MW-112	08/12/2010	107.58	8.45	0.00	99.13	<50	--	<29	--	<68	<0.5	<0.5	<0.5	<0.5	<0.5	0.29	LFP
MW-112	11/3-4/2010	107.58	6.85	0.00	100.73	<50	--	<29	--	<68	<0.5	<0.5	<0.5	<0.5	<0.5	0.19	LFP
MW-112	2/3-4/2011	107.58	8.21	0.00	99.37	<50	--	49	--	89	<0.5	<0.5	<0.5	<0.5	<0.5	0.56	LFP
MW-112	05/24/2011	107.58	7.58	0.00	100.00	<50	--	<29	--	270	<0.5	<0.5	<0.5	<0.5	<0.5	0.49	LFP
MW-112	8/23-24/11	107.58	8.52	0.00	99.06	72	--	860	--	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080	LFP
MW-112	11/7-9/2011	107.58	8.35	0.00	99.23	<50	--	<30	--	<70	<0.5	<0.5	<0.5	<0.5	<0.5	0.24	LFP
MW-112	2/6-8/2012	107.58	7.10	0.00	100.48	<50	--	<29	--	<67	<0.5	<0.5	<0.5	<0.5	<0.5	0.22	LFP
MW-112	5/2-4/2012	107.58	7.20	0.00	100.38	68	--	<30	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	1.5	LFP
MW-112	8/1-3/2012	107.58	8.45	0.00	99.13	<50	--	<31	--	<72	<0.5	<0.5	<0.5	<0.5	<0.5	0.39	LFP
MW-112	11/26-28/2012	107.58	6.67	0.00	100.91	<50	--	<30	--	<71	<0.5	<0.5	<0.5	<0.5	<0.5	0.14	LFP
MW-112	2/4-6/2013	107.58	7.22	0.00	100.36	50	--	<28	--	<66	<0.5	<0.5	<0.5	<0.5	<0.5	0.64	LFP
MW-112	5/6-8/2013	107.58	8.00	0.00	99.58	<50	--	<29	--	<67	<0.5	<0.5	<0.5	<0.5	<0.5	0.47	LFP
MW-112	9/9-13/2013	107.58	7.71	0.00	99.87	<50	32	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	<0.5	0.85	LFP
MW-112	11/18-22/2013	107.58	6.76	0.00	100.82	68	33	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	<0.5	0.58	LFP
MW-112	2/4-11/2014	107.58	7.67	0.00	99.91	<50	<29	<29	<68	<68	<0.5	<0.5	<0.5	<0.5	<0.5	0.38	LFP
MW-112	8/18-21/14	107.58	8.63	0.00	98.95	<50	<29	<29	<68	<68	<0.5	<0.5	<0.5	<0.5	<0.5	0.36	LFP
MW-112	11/19-20/2014	107.58	7.71	0.00	99.87	<50	<29	<29	<68	<68	<0.5	<0.5	<0.5	<0.5	<0.5	0.13	LFP
MW-112	2/17-20/2015	107.58	7.33	0.00	100.25	<50	<30	<30	<69	<69	<0.5	<0.5	<0.5	<0.5	<0.5	0.083	LFP
MW-112	5/11-15/2015	107.58	8.19	0.00	99.39	<50	<28	<28	<66	<66	<0.5	<0.5	<0.5	<0.5	<0.5	0.460	LFP
MW-112	8/10-11/2015	107.58	8.90	0.00	98.68	<50	<28	<28	<66	<66	<0.5	<0.5	<0.5	<0.5	<0.5	0.200	LFP
MW-112	11/16-18/2015	107.58	5.65	0.00	101.93	<50	<29	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	<0.5	0.0014	LFP
MW-112	5/13-14/2016	107.58	8.18	0.00	99.40	<50	--	<28	--	<66	<0.5	<0.5	<0.5	<0.5	--	<0.13	LFP
MW-112	11/14/2016	107.58	6.90	0.00	100.68	<50	--	56	--	<70	<0.5	<0.5	<0.5	<0.5	--	0.33	LFP
MW-112	05/14/2017	107.58	7.05	0.00	100.53	150	--	<28	--	<66	<0.5	<0.5	<0.5	<0.5	--	0.56	LFP
MW-112	11/11-12/2017	107.58	6.99	0.00	100.59	95	--	<28	--	<66	<0.5	<0.5	<0.5	<0.5	--	0.27	LFP
MW-112	05/11/2018	107.58	7.82	0.00	99.76	<50	--	59	--	<66	<0.5	<0.5	<0.5	<0.5	<0.5	0.20	LFP
MW-112	11/11-12/2018	107.58	7.81	0.00	99.77	<19	--	<28	--	<66	<0.2	<0.2	<0.4	<1	--	<1.1	LFP
MW-112	04/27/2019	107.58	7.62	0.00	99.96	38 J	--	130	--	98 J	<0.2	<0.2	<0.4	<1	--	<1.1	LFP
MW-112	11/03/2019	107.58	7.82	0.00	99.76	38 J	--	60 J	--	<68	<0.2	<0.2	<0.4	<1	--	0.25 J	LFP
MW-112	05/06/2020	107.58	7.83	0.00	99.75	42.6 B J	<200	--	<250	--	<1.00	<1.00	<1.00	<3.00	--	<5.00	LFP
MW-112	11/7/2020	107.58	6.94	0.00	100.64	183 B	<200	<200	131 J	<250	<1.00	<1.00	<1.00	<3.00	--	<5.00	LFP
MW-113	08/22/1995	108.44	9.26	0.00	99.18	3,100	--	320	--	<750	--	--	--	--	--	--	

Table 2. Historical Groundwater Gauging Data and Select Analytical Results  
 COWLITZ BP / COWLITZ Food and Fuel / Former Texaco Service Station No. 211556  
 101 Mulford Road  
 Toledo, Washington

Well	Date	TOC	DTW	NAPL	GWE	TPH-GRO	TPH-DRO	TPH-DRO w/Si gel	TPH-HRO	TPH-HRO w/Si gel	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Dissolved Lead	Comments
MW-113	11/28/1995	108.44	7.55	0.00	100.89	180	--	<250	--	<750	--	--	--	--	--	<2.0	
MW-113	03/12/1996	108.44	8.26	0.00	100.18	750	--	<250	--	<750	--	--	--	--	--	<2.0	
MW-113	06/26/1996	108.44	8.95	0.00	99.49	809	--	<250	--	<750	--	--	--	--	--	2.43	
MW-113	10/09/1996	108.44	9.21	0.00	99.23	494	--	<250	--	<750	--	--	--	--	--	2.95	
MW-113	02/12/1997	108.44	7.93	0.00	100.51	1,600	--	<250	--	<750	--	--	--	--	--	<2.0	
MW-113	04/22/1997	108.44	7.71	0.00	100.73	748	--	<250	--	<750	--	--	--	--	--	<2.0	
MW-113	08/05/1997	108.44	9.37	0.00	99.07	876	--	<250	--	<750	--	--	--	--	--	<2.0	
MW-113	11/11/1997	108.44	8.04	0.00	100.40	<50	--	<250	--	<750	--	--	--	--	--	<2.0	
MW-113	02/11/1998	108.44	8.02	0.00	100.42	76.10	--	<250	--	<750	--	--	--	--	--	<2.0	
MW-113	05/28/1998	108.44	8.31	0.00	100.13	116	--	<250	--	<750	--	--	--	--	--	6.26	
MW-113	08/20/1998	108.44	10.48	0.00	97.96	235	--	<250	--	<750	--	--	--	--	--	<1.0	
MW-113	11/19/1998	108.44	9.02	0.00	99.42	<50	--	<250	--	<750	--	--	--	--	--	<1.0	
MW-113	03/11/1999	108.44	7.59	0.00	100.85	162	--	<250	--	<750	--	--	--	--	--	<1.0	
MW-113	05/25/1999	108.44	8.83	0.00	99.61	321	--	<250	--	--	--	--	--	--	--	--	
MW-113	08/17/1999	108.44	9.34	0.00	99.10	265	--	<250	--	<500	--	--	--	--	--	1.2	
MW-113	11/19/1999	108.44	7.27	0.00	101.17	<80	--	<250	--	--	--	--	--	--	--	<1.0	
MW-113	03/09/2000	108.44	7.66	0.00	100.78	96.70	--	<250	--	<500	--	--	--	--	--	<1.0	
MW-113	06/13/2000	108.44	8.29	0.00	100.15	154	--	<250	--	<500	--	--	--	--	--	<1.0	
MW-113	09/26/2000	108.44	9.51	0.00	98.93	--	--	<250	--	<500	--	--	--	--	--	<1.0	
MW-113	12/13/2000	108.44	8.91	0.00	99.53	<80	--	<250	--	588	--	--	--	--	--	<1.0	
MW-113	02/28/2001	108.44	8.60	0.00	99.84	<80	--	<250	--	<500	--	--	--	--	--	<1.0	
MW-113	05/02/2001	108.44	8.14	0.00	100.30	<80	--	<250	--	<500	--	--	--	--	--	<1.0	
MW-113	10/30/2002	108.44	9.85	0.00	98.59	<80	--	<250	--	<500	<0.500	<0.500	<0.500	<1.0	--	1.55	
MW-113	01/23/2003	108.44	8.29	0.00	100.15	<80	--	<250	--	<500	<0.500	<0.500	<0.500	<1.0	--	<1.0	
MW-113	04/18/2003	108.44	8.09	0.00	100.35	<50	--	<250	--	<500	<0.500	<0.500	<0.500	<1.0	--	<1.0	
MW-113	07/11/2003	108.44	9.51	0.00	98.93	<50	--	<250	--	<500	<0.500	<0.500	<0.500	<1.0	--	<1.0	
MW-113	10/31/2003	108.44	8.80	0.00	99.64	<50	--	<250	--	<500	<0.500	<0.500	<0.500	<1.0	--	<1.0	
MW-113	12/31/2003	108.44	7.44	0.00	101.00	<97	--	<50	--	<77	<0.5	<0.5	<0.5	<1.5	--	<1.2	
MW-113	05/03/2004	108.44	9.14	0.00	99.30	<50	--	<250	--	<500	<0.500	<0.500	<0.500	<1.0	--	<1.0	
MW-113	07/20/2004	108.44	9.58	0.00	98.86	<50	--	<250	--	<500	<0.500	<0.500	<0.500	<1.0	--	--	
MW-113	10/06/2004	108.44	8.92	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-113	01/27/2005	108.44	8.15	0.00	100.29	<48	--	<84	--	<110	--	--	--	--	--	--	
MW-113	04/12/2005	108.44	7.76	0.00	100.68	<48	--	<88	--	<110	--	--	--	--	--	--	
MW-113	07/18/2005	108.44	9.11	0.00	99.33	<48	--	<79	--	<98	--	--	--	--	--	--	
MW-113	10/26/2005	108.44	9.10	0.00	99.34	<48	--	<82	--	<100	--	--	--	--	--	--	
MW-113	09/05/2007	108.44	9.59	0.00	98.85	<50	--	<82	--	<100	--	--	--	--	--	0.32	
MW-113-DUP	09/05/2007	108.44	9.59	0.00	98.85	<50	--	<82	--	<100	--	--	--	--	--	0.32	
MW-113	5/27-28/2008	108.44	9.02	0.00	99.42	<50	--	<82	--	<100	<0.5	<0.5	<0.5	<0.5	<0.5	0.16	LFP
MW-113	8/27-29/2008	108.44	9.10	0.00	99.34	<50	--	<81	--	<100	<0.5	<0.5	<0.5	<0.5	<0.5	0.19	LFP
MW-113	11/17-19/2008	108.44	7.68	0.00	100.76	<50	--	<30	--	<70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP
MW-113	2/16-18/2009	108.44	8.75	0.00	99.69	<50	--	<29	--	<67	<0.5	<0.5	<0.5	<0.5	<0.5	0.087	LFP
MW-113	5/4-6/2009	108.44	8.28	0.00	100.16	<50	--	<30	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP
MW-113	8/19-21/2009	108.44	9.50	0.00	98.94	<50	--	<31	--	<71	<0.5	<0.5	<0.5	<0.5	<0.5	0.14	LFP
MW-113	11/18-20/2009	108.44	6.39	0.00	102.05	<50	--	<29	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	0.16	LFP
MW-113	2/8-10/2010	108.44	8.15	0.00	100.29	<50	--	<29	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP
MW-113	5/12-13/2010	108.44	8.60	0.00	99.84	<50	--	<29	--	<68	<0.5	<0.5	<0.5	<0.5	<0.5	0.093	LFP
MW-113	08/12/2010	108.44	9.29	0.00	99.15	<50	--	<29	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	0.077	LFP
MW-113	11/3-4/2010	108.44	7.65	0.00	100.79	<50	--	<29	--	<68	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052	LFP
MW-113	2/3-4/2011	108.44	8.26	0.00	100.18	<50	--	<30	--	<71	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052	LFP
MW-113	05/24/2011	108.44	8.42	0.00	100.02	<50	--	<30	--	330	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052	LFP
MW-113	8/23-24/11	108.44	9.32	0.00	99.12	<50	--	<30	--	<70	<0.5	<0.5	<0.5	<0.5	<0.5	0.096	LFP
MW-113	11/7-9/2011	108.44	9.20	0.00	99.24	<50	--	<29	--	<67	<0.5	<0.5	<0.5	<0.5	<0.5	0.12	LFP
MW-113	2/6-8/2012	108.44	7.95	0.00	100.49	<50	--	<30	--	<70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080	LFP
MW-113	5/2-4/2012	108.44	8.00	0.00	100.44	<50	--	<30	--	<70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080	LFP
MW-113	8/1-3/2012	108.44	9.30	0.00	99.14	<50	--	<31	--	<72	<0.5	<0.5	<0.5	<0.5	<0.5	0.048	LFP
MW-113	11/26-28/2012	108.44	7.49	0.00	100.95	<50	--	<30	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	<0.047	LFP
MW-113	2/4-6/2013	108.44	8.06	0.00	100.38	<50	--	30	--	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073	LFP
MW-113	5/6-8/2013	108.44	8.83	0.00	99.61	<50	--	<29	--	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073	LFP
MW-113	9/9-13/2013	108.44	8.56	0.00	99.88	<50	<28	<28	<66	<66	<0.5	<0.5	<0.5	<0.5	<0.5	0.12	LFP
MW-113	11/18-21/2013	108.44	7.74	0.00	100.70	<50	<29	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	<0.5	0.11	LFP
MW-113	2/4-11/2014	108.44	6.56	0.00	101.88	<50	<29	<29	<69	<69	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085	LFP
MW-113	6/12-14/2014	108.44	8.79	0.00	99.65	<50	<29	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085	LFP
MW-113	8/18-21/14	108.44	9.39	0.00	99.05	<50	<30	<30	<71	<71	<0.5	<0.5	<0.5	<0.5	<0.5	0.35	LFP
MW-113	11/19-20/2014	108.44	8.59	0.00	99.85	<50	<29	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082	LFP



Table 2. Historical Groundwater Gauging Data and Select Analytical Results  
 COWLITZ BP / COWLITZ Food and Fuel / Former Texaco Service Station No. 211556  
 101 Mulford Road  
 Toledo, Washington



Well	Date	TOC	DTW	NAPL	GWE	TPH-GRO	TPH-DRO	TPH-DRO w/SI gel	TPH-HRO	TPH-HRO w/SI gel	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Dissolved Lead	Comments
MW-113	2/17-20/2015	108.44	8.01	0.00	100.43	<50	<30	<30	<70	<70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082	LFP
MW-113	5/11-15/2015	108.44	9.08	0.00	99.36	75	<29	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082	LFP
MW-113	8/10-11/2015	108.44	9.28	0.00	99.16	<50	<28	<28	<66	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.13	LFP
MW-113	11/16-18/2015	108.44	5.99	0.00	102.45	<50	<29	<29	<68	<68	<0.5	<0.5	<0.5	<0.5	<0.5	0.00019	LFP
MW-113	5/13-14/2016	108.44	8.95	0.00	99.49	<50	--	<29	--	<67	<0.5	<0.5	<0.5	<0.5	--	<0.13	LFP
MW-113	11/14/2016	108.44	7.73	0.00	100.71	<50	--	57	--	<66	<0.5	<0.5	<0.5	<0.5	--	<0.090	LFP
MW-113	05/14/2017	108.44	7.88	0.00	100.56	<50	--	<28	--	<66	<0.5	<0.5	<0.5	<0.5	--	<0.090	LFP
MW-113	11/11-12/2017	108.44	7.81	0.00	100.63	<50	--	<28	--	<66	<0.5	<0.5	<0.5	<0.5	--	<0.11	LFP
MW-113	05/11/2018	108.44	8.65	0.00	99.79	<50	--	<28	--	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.11	LFP
MW-113	11/11-12/2018	108.44	8.68	0.00	99.76	<19	--	<28	--	<65	<0.2	<0.2	<0.4	<1	--	<1.1	LFP
MW-113	04/27/2019	108.44	8.11	0.00	100.33	<19	--	81 J	--	130 J	<0.2	<0.2	<0.4	<1	--	<1.1	LFP
MW-113	11/03/2019	108.44	8.65	0.00	99.79	<19	--	100	--	<66	<0.2	<0.2	<0.4	<1	--	0.25 J	LFP
MW-113	05/06/2020	108.44	8.67	0.00	99.77	<100	<200	--	<250	--	<1.00	<1.00	<1.00	<3.00	--	<5.00	LFP
MW-113	11/7/2020	108.44	7.77	0.00	100.67	44.4 B J	<200	<200	<250	<250	<1.00	<1.00	<1.00	<3.00	--	0.888 J	LFP
MW-114	08/22/1995	106.89	7.47	0.00	99.42	<50	--	<250	--	<750	--	--	--	--	--	--	--
MW-114	11/28/1995	106.89	5.83	0.00	101.06	<50	--	<250	--	<750	--	--	--	--	--	<2.0	--
MW-114	03/12/1996	106.89	6.39	0.00	100.50	<50	--	<250	--	<750	--	--	--	--	--	<2.0	--
MW-114	06/26/1996	106.89	7.11	0.00	99.78	<50	--	<250	--	<750	--	--	--	--	--	<2.0	--
MW-114	10/09/1996	106.89	7.42	0.00	99.47	<50	--	<250	--	<750	--	--	--	--	--	<2.0	--
MW-114	02/12/1997	106.89	5.47	0.00	101.42	<50	--	<250	--	<750	--	--	--	--	--	<2.0	--
MW-114	04/22/1997	106.89	14.30	0.00	92.59	<50	--	<250	--	<750	--	--	--	--	--	<2.0	--
MW-114	08/05/1997	106.89	7.65	0.00	99.24	<50	--	<250	--	1,410	--	--	--	--	--	<2.0	--
MW-114	11/11/1997	106.89	6.45	0.00	100.44	<50	--	<250	--	<750	--	--	--	--	--	<2.0	--
MW-114	02/11/1998	106.89	6.23	0.00	100.66	<50	--	<250	--	<750	--	--	--	--	--	<2.0	--
MW-114	05/28/1998	106.89	6.44	0.00	100.45	<50	--	<250	--	<750	--	--	--	--	--	5.91	--
MW-114	08/20/1998	106.89	8.75	0.00	98.14	<50	--	<250	--	<750	--	--	--	--	--	<1.0	--
MW-114	11/19/1998	106.89	7.05	0.00	99.84	<50	--	<250	--	<750	--	--	--	--	--	<1.0	--
MW-114	03/11/1999	106.89	5.90	0.00	100.99	<80	--	<250	--	<500	--	--	--	--	--	<1.0	--
MW-114	05/25/1999	106.89	7.10	0.00	99.79	<80	--	<250	--	--	--	--	--	--	--	--	--
MW-114	08/17/1999	106.89	7.59	0.00	99.30	<80	--	<250	--	607	--	--	--	--	--	<1.0	--
MW-114	11/19/1999	106.89	5.59	0.00	101.30	<80	--	<250	--	--	--	--	--	--	--	<1.0	--
MW-114	03/09/2000	106.89	5.98	0.00	100.91	<80	--	<250	--	<500	--	--	--	--	--	<1.0	--
MW-114	06/13/2000	106.89	6.04	0.00	100.85	<80	--	<250	--	<500	--	--	--	--	--	<1.0	--
MW-114	09/26/2000	106.89	7.81	0.00	99.08	--	--	<250	--	<500	--	--	--	--	--	<1.0	--
MW-114	12/13/2000	106.89	7.06	0.00	99.83	--	--	<250	--	<500	--	--	--	--	--	<1.0	--
MW-114	02/28/2001	106.89	6.79	0.00	100.10	<80	--	<250	--	<500	--	--	--	--	--	<1.0	--
MW-114	05/02/2001	106.89	8.84	0.00	98.05	<80	--	<250	--	1,880	--	--	--	--	--	<1.0	--
MW-114	10/30/2002	106.89	8.32	0.00	98.57	115	--	<250	--	1,090	<0.500	<0.500	1.17	5.18	--	1.01	--
MW-114	10/31/2003	106.89	6.61	0.00	100.28	<50.0	--	<250	--	<500	<0.500	<0.500	<0.500	<1.0	--	<1.0	--
MW-114	12/30/2003	106.89	5.81	0.00	101.08	3,600	--	<50	--	480	<0.5	<0.5	<0.5	<1.5	--	<1.2	--
MW-114	10/06/2004	106.89	6.98	0.00	99.91	<50	--	<76	--	<95	--	--	--	--	--	--	--
MW-114	10/24/2005	106.89	7.28	0.00	99.61	<48	--	<79	--	<99	--	--	--	--	--	--	--
MW-114	09/05/2007	106.89	7.87	0.00	99.02	<50	--	94	--	810	--	--	--	--	--	0.38	--
MW-114	5/27-28/2008	106.89	7.19	0.00	99.70	<50	--	<1,600	--	15,000	<0.5	<0.5	<0.5	<0.5	<0.5	0.14	LFP
MW-114	8/27-29/2008	106.89	7.30	0.00	99.59	<50	--	270	--	2,200	<0.5	<0.5	<0.5	<0.5	<0.5	0.25	LFP
MW-114	11/17-19/2008	106.89	6.01	0.00	100.88	<50	--	330	--	4,600	<0.5	<0.5	<0.5	<0.5	<0.5	0.13	LFP
MW-114	2/16-18/2009	106.89	6.91	0.00	99.98	<50	--	210	--	1,900	<0.5	<0.5	<0.5	<0.5	<0.5	0.22	LFP
MW-114	5/4-6/2009	106.89	6.42	0.00	100.47	<50	--	180	--	1,400	<0.5	<0.5	<0.5	<0.5	<0.5	0.43	LFP
MW-114	8/19-21/2009	106.89	7.78	0.00	99.11	<50	--	<130	--	<71	<0.5	<0.5	<0.5	<0.5	<0.5	0.79	LFP
MW-114	11/18-20/2009	106.89	5.10	0.00	101.79	<50	--	<30	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	0.34	LFP
MW-114	2/8-10/2010	106.89	6.38	0.00	100.51	<50	--	110	--	790	<0.5	<0.5	<0.5	<0.5	<0.5	0.19	LFP
MW-114	5/12-13/2010	106.89	6.71	0.00	100.18	<50	--	<30	--	80	<0.5	<0.5	<0.5	<0.5	<0.5	0.23	LFP
MW-114	08/11/2010	106.89	7.45	0.00	99.44	<50	--	<29	--	220	<0.5	<0.5	<0.5	<0.5	<0.5	0.15	LFP
MW-114	11/3-4/2010	106.89	5.88	0.00	101.01	<50	--	<29	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	0.24	LFP
MW-114	2/3-4/2011	106.89	6.48	0.00	100.41	<50	--	60	--	460	<0.5	<0.5	<0.5	<0.5	<0.5	0.10	LFP
MW-114	05/23/2011	106.89	6.55	0.00	100.34	<50	--	55	--	380	<0.5	<0.5	<0.5	<0.5	<0.5	0.36	LFP
MW-114	8/23-24/11	106.89	7.70	0.00	99.19	<50	--	130	--	1,500	<0.5	<0.5	<0.5	<0.5	<0.5	0.41	LFP
MW-114	11/7-9/2011	106.89	7.35	0.00	99.54	<50	--	120	--	950	<0.5	<0.5	<0.5	<0.5	<0.5	0.19	LFP
MW-114	2/6-8/2012	106.89	6.25	0.00	100.64	<50	--	<29	--	180	<0.5	<0.5	<0.5	<0.5	<0.5	0.088	LFP
MW-114	5/2-4/2012	106.89	5.95	0.00	100.94	<50	--	<30	--	140	<0.5	<0.5	<0.5	<0.5	<0.5	0.72	LFP
MW-114	8/1-3/2012	106.89	7.50	0.00	99.39	<50	--	140	--	910	<0.5	<0.5	<0.5	<0.5	<0.5	0.084	LFP
MW-114	11/26-28/2012	106.89	5.88	0.00	101.01	<50	--	<31	--	<72	<0.5	<0.5	<0.5	<0.5	<0.5	0.19	LFP
MW-114	2/4-6/2013	106.89	6.27	0.00	100.62	<50	--	<29	--	<67	<0.5	<0.5	<0.5	<0.5	<0.5	0.13	LFP

Table 2. Historical Groundwater Gauging Data and Select Analytical Results  
COWLITZ BP / COWLITZ Food and Fuel / Former Texaco Service Station No. 211556  
101 Mulford Road  
Toledo, Washington

Well	Date	TOC	DTW	NAPL	GWE	TPH-GRO	TPH-DRO	TPH-DRO w/Si gel	TPH-HRO	TPH-HRO w/Si gel	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Dissolved Lead	Comments
MW-114	5/6-8/2013	106.89	6.97	0.00	99.92	<50	--	<29	--	<67	<0.5	<0.5	<0.5	<0.5	<0.5	0.20	LFP
MW-114	9/9-13/2013	106.89	6.96	0.00	99.93	<50	60	<29	260	<67	<0.5	<0.5	<0.5	<0.5	<0.5	2.3	LFP
MW-114	11/18-22/2013	106.89	8.36	0.00	98.53	<50	99	200	340	<68	<0.5	<0.5	<0.5	<0.5	<0.5	0.10	LFP
MW-114	2/4-11/2014	106.89	6.56	0.00	100.33	<50	<29	<29	71	<67	<0.5	<0.5	<0.5	<0.5	<0.5	0.12	LFP
MW-114	6/12-14/2014	106.89	6.96	0.00	99.93	<50	94	38	820	340	<0.5	<0.5	<0.5	<0.5	<0.5	0.18	LFP
MW-114	8/18-21/14	106.89	7.57	0.00	99.32	<50	<29	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	<0.5	0.10	LFP
MW-114	11/19-20/2014	106.89	6.75	0.00	100.14	<50	<28	<28	140	<66	<0.5	<0.5	<0.5	<0.5	<0.5	0.20	LFP
MW-114	2/17-20/2015	106.89	6.31	0.00	100.58	<50	<30	<30	<69	<69	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082	LFP
MW-114	5/11-15/2015	106.89	6.89	0.00	100.00	<50	<29	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	<0.5	0.55	LFP
MW-114	8/10-11/2015	106.89	8.03	0.00	98.86	<50	130	<29	570	170	<0.5	<0.5	<0.5	<0.5	<0.5	39.2	LFP
MW-114	11/16-18/2015	106.89	4.54	0.00	102.35	<50	49	<29	280	<67	<0.5	<0.5	<0.5	<0.5	<0.5	0.0145	LFP
MW-114	5/13-14/2016	106.89	7.97	0.00	98.92	<50	67	35	490	260	<0.5	<0.5	<0.5	<0.5	--	<0.13	LFP
MW-114	11/14/2016	106.89	5.40	0.00	101.49	<50	220	36	790	280	<0.5	<0.5	<0.5	<0.5	--	2.5	LFP
MW-114	05/14/2017	106.89	5.93	0.00	100.96	<50	42	38	<67	280	<0.5	<0.5	<0.5	<0.5	--	8.3	LFP
MW-114	11/11-12/2017	106.89	5.82	0.00	101.07	<50	61	<28	320	<66	<0.5	<0.5	<0.5	<0.5	--	0.45	LFP
MW-114	05/11/2018	106.89	6.70	0.00	100.19	<50	29	<28	230	98	<0.5	<0.5	<0.5	<0.5	<0.5	0.40	LFP
MW-114	04/27/2019	106.89	6.60	0.00	100.29	<19	99	<29	300	<66	<0.2	<0.2	<0.4	<1	--	5	LFP
MW-114	11/03/2019	106.89	6.80	0.00	100.09	<19	110	<30	670	310	<0.2	<0.2	<0.4	<1	--	0.21 J	LFP
MW-114	05/06/2020	106.89	6.77	0.00	100.12	38.2 B J	<200	--	<250	--	<1.00	<1.00	<1.00	<3.00	--	<5.00	
MW-114	11/7/2020	106.89	5.95	0.00	100.94												WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY
MW-115	08/22/1995	107.94	8.79	0.00	99.15	1,800	--	<250	--	<750	--	--	--	--	--	--	
MW-115	11/28/1995	107.94	7.05	0.00	100.89	460	--	<250	--	<750	--	--	--	--	--	<2.0	
MW-115	03/12/1996	107.94	7.76	0.00	100.18	630	--	<250	--	<750	--	--	--	--	--	<2.0	
MW-115	06/26/1996	107.94	8.45	0.00	99.49	706	--	<250	--	<750	--	--	--	--	--	<2.0	
MW-115	10/09/1996	107.94	8.71	0.00	99.23	722	--	<250	--	<750	--	--	--	--	--	2.54	
MW-115	02/12/1997	107.94	7.48	0.00	100.46	58	--	<250	--	<750	--	--	--	--	--	<2.0	
MW-115	04/22/1997	107.94	7.25	0.00	100.69	<50	--	<250	--	<750	--	--	--	--	--	<2.0	
MW-115	08/05/1997	107.94	8.77	0.00	99.17	611	--	<250	--	<750	--	--	--	--	--	2.0	
MW-115	11/11/1997	107.94	7.71	0.00	100.23	57	--	<250	--	<750	--	--	--	--	--	<2.0	
MW-115	02/11/1998	107.94	7.72	0.00	100.22	89.5	--	<250	--	<750	--	--	--	--	--	<2.0	
MW-115	05/28/1998	107.94	7.92	0.00	100.02	<50	--	<250	--	<750	--	--	--	--	--	8.08	
MW-115	08/20/1998	107.94	9.18	0.00	98.76	155	--	<250	--	<750	--	--	--	--	--	<1.0	
MW-115	11/19/1998	107.94	8.58	0.00	99.36	<50	--	<250	--	<750	--	--	--	--	--	<1.0	
MW-115	03/11/1999	107.94	7.12	0.00	100.82	<80	--	<250	--	<750	--	--	--	--	--	<1.0	
MW-115	05/25/1999	107.94	8.33	0.00	99.61	<80	--	<250	--	--	--	--	--	--	--	--	
MW-115	08/17/1999	107.94	8.87	0.00	99.07	163	--	<250	--	<500	--	--	--	--	--	1.4	
MW-115	11/19/1999	107.94	6.82	0.00	101.12	<80	--	<250	--	--	--	--	--	--	--	<1.0	
MW-115	03/09/2000	107.94	7.20	0.00	100.74	103	--	<250	--	<500	--	--	--	--	--	<1.0	
MW-115	06/13/2000	107.94	7.82	0.00	100.12	<80	--	--	--	--	--	--	--	--	--	<1.0	
MW-115	09/26/2000	107.94	9.02	0.00	98.92	--	--	<250	--	<500	--	--	--	--	--	1.02	
MW-115	12/13/2000	107.94	8.43	0.00	99.51	313	--	<250	--	<500	--	--	--	--	--	<1.0	
MW-115	02/28/2001	107.94	8.13	0.00	99.81	177	--	<250	--	<500	--	--	--	--	--	<1.0	
MW-115	05/02/2001	107.94	10.37	0.00	97.57	162	--	<250	--	<500	--	--	--	--	--	<1.0	
MW-115	10/30/2002	107.94	9.33	0.00	98.61	175	--	<250	--	<500	<0.500	<0.500	<0.500	<1.0	--	4.36	
MW-115	10/31/2003	107.94	8.30	0.00	99.64	78.9	--	<250	--	<500	<0.500	<0.500	<0.500	<1.0	--	<1.0	
MW-115	12/31/2003	107.94	6.98	0.00	100.96	<99	--	<50	--	<79	<0.5	<0.5	<0.5	<1.5	--	<1.2	
MW-115	10/06/2004	107.94	8.43	0.00	99.51	<50	--	<160	--	<200	--	--	--	--	--	--	
MW-115	10/21/2005	107.94	8.67	0.00	99.27	<48	--	<81	--	<100	--	--	--	--	--	--	
MW-115-DUP	10/21/2005	107.94	8.67	0.00	99.27	<48	--	<82	--	<100	--	--	--	--	--	--	
MW-115	09/05/2007	107.94	9.11	0.00	98.83	<50	--	<76	--	<95	--	--	--	--	--	0.37	
MW-115	8/27-29/2008	107.94	8.63	0.00	99.31	<50	--	<82	--	<100	<0.5	<0.5	<0.5	<0.5	<0.5	0.35	LFP
MW-115	11/17-19/2008	107.94	7.25	0.00	100.69	<50	--	<80	--	<70	<0.5	<0.5	<0.5	<0.5	<0.5	0.097	LFP
MW-115	2/16-18/2009	107.94	8.31	0.00	99.63	<50	--	<31	--	<71	<0.5	<0.5	<0.5	<0.5	<0.5	0.17	LFP
MW-115	5/4-6/2009	107.94	7.66	0.00	100.28	<50	--	42	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	0.36	LFP
MW-115	8/19-21/2009	107.94	9.04	0.00	98.90	<50	--	320	--	2,700	<0.5	<0.5	<0.5	<0.5	<0.5	0.64	LFP
MW-115	10/19/2009	107.94	8.70	0.00	99.24	--	--	<29	--	<68	--	--	--	--	--	--	LFP
MW-115	11/18-20/2009	107.94	5.85	0.00	102.09	<50	--	<29	--	<68	<0.5	<0.5	<0.5	<0.5	<0.5	0.92	LFP
MW-115	2/8-10/2010	107.94	7.69	0.00	100.25	<50	--	<29	--	<68	<0.5	<0.5	<0.5	<0.5	<0.5	0.17	LFP
MW-115	5/12-13/2010	107.94	8.14	0.00	99.80	<50	--	30	--	<68	<0.5	<0.5	<0.5	<0.5	<0.5	0.20	LFP
MW-115	08/12/2010	107.94	8.81	0.00	99.13	<50	--	<29	--	<68	<0.5	<0.5	<0.5	<0.5	<0.5	0.92	LFP
MW-115	11/3-4/2010	107.94	7.07	0.00	100.87	70	--	<30	--	<70	<0.5	<0.5	<0.5	<0.5	<0.5	0.83	LFP
MW-115	2/3-4/2011	107.94	7.81	0.00	100.13	<50	--	33	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	0.11	LFP
MW-115	05/24/2011	107.94	7.95	0.00	99.99	<50	--	42	--	220	<0.5	<0.5	<0.5	<0.5	<0.5	0.53	LFP

Table 2. Historical Groundwater Gauging Data and Select Analytical Results  
 COWLITZ BP / COWLITZ Food and Fuel / Former Texaco Service Station No. 211556  
 101 Mulford Road  
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Well	Date	TOC	DTW	NAPL	GWE	TPH-GRO	TPH-DRO	TPH-DRO w/Si gel	TPH-HRO	TPH-HRO w/Si gel	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Dissolved Lead	Comments
MW-115	8/23-24/11	107.94	9.05	0.00	98.89	73	--	68	--	74	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	LFP
MW-115	11/7-9/2011	107.94	8.70	0.00	99.24	<50	--	<29	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	0.60	LFP
MW-115	2/6-8/2012	107.94	7.55	0.00	100.39	<50	--	<29	--	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080	LFP
MW-115	5/2-4/2012	107.94	7.55	0.00	100.39	<50	--	<29	--	<68	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080	LFP
MW-115	8/1-3/2012	107.94	8.82	0.00	99.12	<50	--	<30	--	<70	<0.5	<0.5	<0.5	<0.5	<0.5	0.63	LFP
MW-115	11/26-28/2012	107.94	7.04	0.00	100.90	<50	--	<29	--	<67	<0.5	<0.5	<0.5	<0.5	<0.5	0.052	LFP
MW-115	2/4-6/2013	107.94	7.58	0.00	100.36	<50	--	<29	--	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073	LFP
MW-115	5/6-8/2013	107.94	8.34	0.00	99.60	<50	--	<29	--	<68	<0.5	<0.5	<0.5	<0.5	<0.5	0.41	LFP
MW-115	9/9-13/2013	107.94	8.09	0.00	99.85	<50	31	<28	<66	<66	<0.5	<0.5	<0.5	<0.5	<0.5	0.89	LFP
MW-115	11/18-21/2013	107.94	7.45	0.00	100.49	<50	<29	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	<0.5	0.45	LFP
MW-115	2/4-11/2014	107.94	8.05	0.00	99.89	<50	<28	<28	<66	<66	<0.5	<0.5	<0.5	<0.5	<0.5	0.43	LFP
MW-115	8/18-21/14	107.94	8.88	0.00	99.06	66	36	<29	<68	<68	<0.5	<0.5	<0.5	<0.5	<0.5	0.82	LFP
MW-115	11/19-20/2014	107.94	8.07	0.00	99.87	<50	<28	<28	<66	<66	<0.5	<0.5	<0.5	<0.5	<0.5	0.28	LFP
MW-115	2/17-20/2015	107.94	7.57	0.00	100.37	<50	<29	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082	LFP
MW-115	5/11-15/2015	107.94	8.33	0.00	99.61	<50	<29	<29	<68	<68	<0.5	<0.5	<0.5	<0.5	<0.5	0.60	LFP
MW-115	8/10-11/2015	107.94	9.28	0.00	98.66	<50	33	<28	<66	<66	<0.5	<0.5	<0.5	<0.5	<0.5	0.71	LFP
MW-115	11/16-18/2015	107.94	6.53	0.00	101.41	<50	<29	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	<0.5	0.00	LFP
MW-115	5/13-14/2016	107.94	8.48	0.00	99.46												
MW-115	11/14/2016	107.94	7.35	0.00	100.59												
MW-115	05/14/2017	107.94	7.44	0.00	100.50												
MW-115	11/11-12/2017	107.94	7.37	0.00	100.57												
MW-115	05/11/2018	107.94	8.20	0.00	99.74												
MW-115	11/11-12/2018	107.94	8.31	0.00	99.63												
MW-115	04/27/2019	107.94	7.49	0.00	100.45												
MW-115	11/03/2019	107.94	8.20	0.00	99.74												
MW-115	Nov 2019	107.94	--	--	--												
MW-116	08/22/1995	107.56	8.82	0.00	98.74	<50	--	<250	--	<750	--	--	--	--	--	--	
MW-116	03/12/1996	107.56	8.08	0.00	99.48	<50	--	<250	--	<750	--	--	--	--	--	<2.0	
MW-116	10/09/1996	107.56	8.69	0.00	98.87	<50	--	<250	--	<750	--	--	--	--	--	<2.0	
MW-116	02/12/1997	107.56	7.86	0.00	99.70	<50	--	<250	--	<750	--	--	--	--	--	<2.0	
MW-116	04/22/1997	107.56	7.65	0.00	99.91	<50	--	<250	--	<750	--	--	--	--	--	<2.0	
MW-116	08/05/1997	107.56	8.71	0.00	98.85	<50	--	<250	--	<750	--	--	--	--	--	<2.0	
MW-116	11/11/1997	107.56	8.07	0.00	99.49	<50	--	<250	--	<750	--	--	--	--	--	<2.0	
MW-116	02/11/1998	107.56	8.06	0.00	99.50	<50	--	<250	--	<750	--	--	--	--	--	<2.0	
MW-116	05/28/1998	107.56	8.25	0.00	99.31	<50	--	<250	--	<750	--	--	--	--	--	4.66	
MW-116	08/20/1998	107.56	9.05	0.00	98.51	<50	--	<250	--	<750	--	--	--	--	--	<1.0	
MW-116	11/19/1998	107.56	9.16	0.00	98.40	<50	--	<250	--	<750	--	--	--	--	--	<1.0	
MW-116	03/11/1999	107.56	7.64	0.00	99.92	<80	--	<250	--	<750	--	--	--	--	--	<1.0	
MW-116	05/25/1999	107.56	8.40	0.00	99.16	<80	--	<250	--	--	--	--	--	--	--	--	
MW-116	08/17/1999	107.56	8.78	0.00	98.78	<80	--	<250	--	<500	--	--	--	--	--	<1.0	
MW-116	11/19/1999	107.56	7.60	0.00	99.96	<80	--	<250	--	--	--	--	--	--	--	<1.0	
MW-116	03/09/2000	107.56	7.70	0.00	99.86	<80	--	<250	--	<500	--	--	--	--	--	<1.0	
MW-116	06/13/2000	107.56	8.37	0.00	99.19	<80	--	--	--	--	--	--	--	--	--	<1.0	
MW-116	09/26/2000	107.56	8.88	0.00	98.68	--	--	<250	--	<500	--	--	--	--	--	<1.0	
MW-116	12/13/2000	107.56	8.52	0.00	99.04	--	--	<250	--	<500	--	--	--	--	--	<1.0	
MW-116	02/28/2001	107.56	8.25	0.00	99.31	<80	--	<250	--	<500	--	--	--	--	--	<1.0	
MW-116	05/02/2001	107.56	10.84	0.00	96.72	<80	--	<250	--	<500	--	--	--	--	--	<1.0	
MW-116	12/30/2003	107.56	7.54	0.00	100.02	<99	--	<50	--	<79	<0.5	<0.5	<0.5	<1.5	--	<1.2	
MW-116	07/20/2004	107.56	8.92	0.00	98.64	<50	--	<284	--	<568	<0.500	<0.500	<0.500	<1.00	--	--	
MW-116	10/07/2004	107.56	7.54	0.00	100.02	<50	--	<75	--	<94	--	--	--	--	--	--	
MW-116	10/20/2005	107.56	8.73	0.00	98.83	<48	--	<81	--	<100	--	--	--	--	--	--	
MW-116	09/06/2007	107.56	9.00	0.00	98.56	<50	--	<76	--	<95	--	--	--	--	--	0.15	
MW-116	8/27-29/2008	107.56	8.68	0.00	98.88	<50	--	89	--	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP
MW-116	11/17-19/2008	107.56	7.93	0.00	99.63	<50	--	<30	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP
MW-116	2/16-18/2009	107.56	8.45	0.00	99.11	<50	--	590	--	350	<0.5	<0.5	<0.5	<0.5	<0.5	0.11	LFP
MW-116	5/4-6/2009	107.56	8.20	0.00	99.36	<50	--	<30	--	<70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP
MW-116	8/19-21/2009	107.56	8.91	0.00	98.65	<50	--	34	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP
MW-116	11/18-20/2009	107.56	6.85	0.00	100.71	<50	--	<29	--	<68	<0.5	<0.5	<0.5	<0.5	<0.5	0.11	LFP
MW-116	2/8-10/2010	107.56	8.07	0.00	99.49	<50	--	<28	--	<66	<0.5	<0.5	<0.5	<0.5	<0.5	0.10	LFP
MW-116	08/12/2010	107.56	8.78	0.00	98.78	<50	--	<30	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	0.15	LFP
MW-116	11/3-4/2010	107.56	8.04	0.00	99.52	<50	--	<29	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052	LFP
MW-116	2/3-4/2011	107.56	8.16	0.00	99.40	<50	--	<29	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052	LFP
MW-116	8/23-24/11	107.56	9.00	0.00	98.56	<50	--	<31	--	<71	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080	LFP

Table 2. Historical Groundwater Gauging Data and Select Analytical Results  
 COWLITZ BP / COWLITZ Food and Fuel / Former Texaco Service Station No. 211556  
 101 Mulford Road  
 Toledo, Washington

Well	Date	TOC	DTW	NAPL	GWE	TPH-GRO	TPH-DRO	TPH-DRO w/Si gel	TPH-HRO	TPH-HRO w/Si gel	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Dissolved Lead	Comments		
MW-116	11/7-9/2011	107.56	8.75	0.00	98.81	<50	--	<30	--	<70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080	LFP		
MW-116	2/6-8/2012	107.56	8.05	0.00	99.51	<50	--	<29	--	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080	LFP		
MW-116	5/2-4/2012	107.56	8.10	0.00	99.46	<50	--	<30	--	<70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080	LFP		
MW-116	8/1-3/2012	107.56	8.80	0.00	98.76	<50	--	<30	--	<71	<0.5	<0.5	<0.5	<0.5	<0.5	<0.034	LFP		
MW-116	11/26-28/2012	107.56	7.84	0.00	99.72	<50	--	<30	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	<0.047	LFP		
MW-116	2/4-6/2013	107.56	8.04	0.00	99.52	<50	--	<29	--	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073	LFP		
MW-116	5/6-8/2013	107.56	8.51	0.00	99.05	<50	--	<29	--	<68	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073	LFP		
MW-116	9/9-13/2013	107.56	8.61	0.00	98.95	<50	<28	<28	<66	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085	LFP		
MW-116	11/18-21/2013	107.56	8.15	0.00	99.41	<50	<29	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	<0.5	0.10	LFP		
MW-116	2/4-11/2014	107.56	8.28	0.00	99.28	<50	<29	<29	<68	<68	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085	LFP		
MW-116	8/18-21/14	107.56	8.83	0.00	98.73	68	38	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	<0.5	0.78	LFP		
MW-116	11/19-20/2014	107.56	8.38	0.00	99.18	<50	<28	<28	<66	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082	LFP		
MW-116	2/17-20/2015	107.56	8.08	0.00	99.48	<50	<30	<30	<69	<69	<0.5	<0.5	<0.5	<0.5	<0.5	0.17	LFP		
MW-116	5/11-15/2015	107.56	8.71	0.00	98.85	<50	<29	<29	<68	<68	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082	LFP		
MW-116	8/10-11/2015	107.56	9.17	0.00	98.39	<50	<28	<28	<66	<66	<0.5	<0.5	<0.5	<0.5	<0.5	0.42	LFP		
MW-116	11/16-18/2015	107.56	7.37	0.00	100.19	<50	<29	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	<0.5	0.0062	LFP		
MW-116	5/13-14/2016	107.56	8.59	0.00	98.97				WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY										
MW-116	11/14/2016	107.56	8.06	0.00	99.50				WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY										
MW-116	05/14/2017	107.56	8.07	0.00	99.49				WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY										
MW-116	11/11-12/2017	107.56	8.14	0.00	99.42				WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY										
MW-116	05/11/2018	107.56	8.43	0.00	99.13				WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY										
MW-116	11/11-12/2018	107.56	9.04	0.00	98.52				WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY										
MW-116	04/27/2019	107.56	8.30	0.00	99.26				WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY										
MW-116	11/03/2019	107.56	8.48	0.00	99.08				WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY										
MW-116	Nov 2019	107.56	--	--	--				WELL ABANDONED										
MW-117	08/22/1995	106.57	7.45	0.00	99.12	<50	--	<250	--	<750	--	--	--	--	--	--			
MW-117	11/28/1995	106.57	5.45	0.00	101.12	<50	--	<250	--	<750	--	--	--	--	--	<2.0			
MW-117	03/12/1996	106.57	6.32	0.00	100.25	<50	--	<250	--	<750	--	--	--	--	--	<2.0			
MW-117	06/26/1996	106.57	7.18	0.00	99.39	<50	--	<250	--	<750	--	--	--	--	--	<2.0			
MW-117	10/09/1996	106.57	7.42	0.00	99.15	<50	--	<250	--	<750	--	--	--	--	--	7.1			
MW-117	02/12/1997	106.57	5.93	0.00	100.64	<50	--	<250	--	<750	--	--	--	--	--	<2.0			
MW-117	04/22/1997	106.57	5.78	0.00	100.79	<50	--	<250	--	<750	--	--	--	--	--	<2.0			
MW-117	08/05/1997	106.57	7.58	0.00	98.99	<50	--	<250	--	<750	--	--	--	--	--	<2.0			
MW-117	11/11/1997	106.57	6.21	0.00	100.36	<50	--	<250	--	<750	--	--	--	--	--	<2.0			
MW-117	02/11/1998	106.57	6.21	0.00	100.36	<50	--	<250	--	<750	--	--	--	--	--	<2.0			
MW-117	05/28/1998	106.57	6.44	0.00	100.13	<50	--	<250	--	<750	--	--	--	--	--	2.68			
MW-117	08/20/1998	106.57	7.90	0.00	98.67	<50	--	<250	--	<750	--	--	--	--	--	<1.0			
MW-117	11/19/1998	106.57	7.18	0.00	99.39	<50	--	<250	--	<750	--	--	--	--	--	<1.0			
MW-117	03/11/1999	106.57	5.51	0.00	101.06	<80	--	<250	--	<500	--	--	--	--	--	<1.0			
MW-117	05/25/1999	106.57	7.00	0.00	99.57	<80	--	<250	--	--	--	--	--	--	--	--			
MW-117	08/17/1999	106.57	7.56	0.00	99.01	<80	--	<250	--	<500	--	--	--	--	--	<1.0			
MW-117	11/19/1999	106.57	5.11	0.00	101.46	<80	--	<250	--	--	--	--	--	--	--	<1.0			
MW-117	03/09/2000	106.57	5.65	0.00	100.92	<80	--	<250	--	<500	--	--	--	--	--	<1.0			
MW-117	06/13/2000	106.57	6.25	0.00	100.32	<80	--	<250	--	<500	--	--	--	--	--	<1.0			
MW-117	09/26/2000	106.57	7.70	0.00	98.87	--	--	<250	--	<500	--	--	--	--	--	<1.0			
MW-117	12/13/2000	106.57	7.11	0.00	99.46	--	--	<250	--	<500	--	--	--	--	--	<1.0			
MW-117	02/28/2001	106.57	6.78	0.00	99.79	<80	--	<250	--	<500	--	--	--	--	--	<1.0			
MW-117	05/02/2001	106.57	8.90	0.00	97.67	<80	--	<250	--	<500	--	--	--	--	--	<1.0			
MW-117	12/30/2003	106.57	5.46	0.00	101.11	<100	--	<50	--	<80	<0.5	<0.5	<0.5	<1.5	--	<1.2			
MW-117	10/06/2004	106.57	7.07	0.00	99.50	<50	--	<79	--	<98	--	--	--	--	--	--			
MW-117	10/21/2005	106.57	7.33	0.00	99.24	<48	--	<81	--	<100	--	--	--	--	--	--			
MW-117	09/05/2007	106.57	7.92	0.00	98.65	<50	--	<82	--	<100	--	--	--	--	--	0.22			
MW-117	5/27-28/2008	106.57	7.42	0.00	99.15	<50	--	<80	--	<100	<0.5	<0.5	<0.5	<0.5	<0.5	0.056	LFP		
MW-117	8/27-29/2008	106.57	7.38	0.00	99.19	<50	--	<82	--	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP		
MW-117	11/17-19/2008	106.57	5.90	0.00	100.67	<50	--	55	--	<72	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP		
MW-117	2/16-18/2009	106.57	7.06	0.00	99.51	<50	--	<30	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	0.095	LFP		
MW-117	5/4-6/2009	106.57	6.51	0.00	100.06	<50	--	38	--	<70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP		
MW-117	8/19-21/2009	106.57	7.82	0.00	98.75	<50	--	40	--	<70	<0.5	<0.5	<0.5	<0.5	<0.5	0.073	LFP		
MW-117	11/18-20/2009	106.57	3.85	0.00	102.72	<50	--	<30	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP		
MW-117	2/8-10/2010	106.57	6.43	0.00	100.14	<50	--	<29	--	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP		
MW-117	5/12-13/2010	106.57	6.96	0.00	99.61	<50	--	36	--	<68	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP		
MW-117	08/12/2010	106.57	7.68	0.00	98.89	<50	--	<29	--	210	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052	LFP		
MW-117	11/3-4/2010	106.57	5.97	0.00	100.60	<50	--	<29	--	<68	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052	LFP		

Table 2. Historical Groundwater Gauging Data and Select Analytical Results  
 COWLITZ BP / COWLITZ Food and Fuel / Former Texaco Service Station No. 211556  
 101 Mulford Road  
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Well	Date	TOC	DTW	NAPL	GWE	TPH-GRO	TPH-DRO	TPH-DRO w/SI gel	TPH-HRO	TPH-HRO w/SI gel	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Dissolved Lead	Comments
MW-117	2/3-4/2011	106.57	6.5	0.00	100.07	<50	--	<31	--	<72	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052	LFP
MW-117	05/24/2011	106.57	6.77	0.00	99.80	<50	--	<30	--	150	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052	LFP
MW-117	8/23-24/11	106.57	7.85	0.00	98.72	<50	--	<30	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	0.15	LFP
MW-117	11/7-9/2011	106.57	7.55	0.00	99.02	<50	--	<29	--	<68	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080	LFP
MW-117	2/6-8/2012	106.57	6.20	0.00	100.37	<50	--	<29	--	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080	LFP
MW-117	5/2-4/2012	106.57	6.00	0.00	100.57	<50	--	<28	--	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080	LFP
MW-117	8/1-3/2012	106.57	7.66	0.00	98.91	<50	--	<32	--	<75	<0.5	<0.5	<0.5	<0.5	<0.5	<0.034	LFP
MW-117	11/26-28/2012	106.57	5.60	0.00	100.97	<50	--	<29	--	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.047	LFP
MW-117	2/4-6/2013	106.57	6.29	0.00	100.28	<50	--	<28	--	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073	LFP
MW-117	5/6-8/2013	106.57	7.18	0.00	99.39	<50	--	<29	--	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073	LFP
MW-117	9/9-13/2013	106.57	8.11	0.00	98.46	<50	<29	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085	LFP
MW-117	11/18-21/2013	106.57	5.99	0.00	100.58	<50	<29	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085	LFP
MW-117	2/4-11/2014	106.57	6.85	0.00	99.72	<50	<29	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085	LFP
MW-117	6/12-14/2014	106.57	7.11	0.00	99.46	<50	<28	<28	<66	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085	LFP
MW-117	8/18-21/14	106.57	7.71	0.00	98.86	<50	<29	<29	<68	<68	<0.5	<0.5	<0.5	<0.5	<0.5	0.37	LFP
MW-117	11/19-20/2014	106.57	6.91	0.00	99.66	<50	<29	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082	LFP
MW-117	2/17-20/2015	106.57	6.26	0.00	100.31	<50	<29	<29	<69	<69	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082	LFP
MW-117	5/11-15/2015	106.57	6.91	0.00	99.66	<50	<29	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082	LFP
MW-117	8/10-11/2015	106.57	8.10	0.00	98.47	<50	<28	<28	<66	<66	<0.5	<0.5	<0.5	<0.5	<0.5	1.10	LFP
MW-117	11/16-18/2015	106.57	3.89	0.00	102.68	<50	<28	<28	<66	<66	<0.5	<0.5	<0.5	<0.5	<0.5	0.0021	LFP
MW-117	5/13-14/2016	106.57	7.38	0.00	99.19				WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY								
MW-117	11/14/2016	106.57	5.60	0.00	100.97				WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY								
MW-117	05/14/2017	106.57	6.10	0.00	100.47				WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY								
MW-117	11/11-12/2017	106.57	6.16	0.00	100.41				WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY								
MW-117	05/11/2018	106.57	7.04	0.00	99.53				WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY								
MW-117	11/11-12/2018	106.57	6.58	0.00	99.99				WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY								
MW-117	04/27/2019	106.57	6.82	0.00	99.75				WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY								
MW-117	11/03/2019	106.57	7.09	0.00	99.48				WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY								
MW-117	Nov 2019	106.57	--	--	--				WELL ABANDONED								
<b> </b>																	
MW-118	08/22/1995	106.72	7.87	0.00	98.85	<50	--	470	--	<750	--	--	--	--	--	--	
MW-118	11/28/1995	106.72	5.76	0.00	100.96	<50	--	<250	--	<750	--	--	--	--	--	--	<2.0
MW-118	03/12/1996	106.72	6.67	0.00	100.05	<50	--	<250	--	<750	--	--	--	--	--	--	<2.0
MW-118	06/26/1996	106.72	7.51	0.00	99.21	<50	--	<250	--	<750	--	--	--	--	--	--	<2.0
MW-118	10/09/1996	106.72	7.78	0.00	98.94	50.1	--	<250	--	<750	--	--	--	--	--	--	<2.0
MW-118	02/12/1997	106.72	6.35	0.00	100.37	<50	--	<250	--	<750	--	--	--	--	--	--	<2.0
MW-118	04/22/1997	106.72	5.98	0.00	100.74	<50	--	<250	--	<750	--	--	--	--	--	--	<2.0
MW-118	08/05/1997	106.72	7.85	0.00	98.87	<50	--	<250	--	<750	--	--	--	--	--	--	<2.0
MW-118	11/11/1997	106.72	6.52	0.00	100.20	<50	--	<250	--	<750	--	--	--	--	--	--	<2.0
MW-118	02/11/1998	106.72	6.56	0.00	100.16	<50	--	<250	--	<750	--	--	--	--	--	--	<2.0
MW-118	05/28/1998	106.72	6.85	0.00	99.87	<50	--	<250	--	<750	--	--	--	--	--	--	2.84
MW-118	08/20/1998	106.72	7.26	0.00	99.46	<50	--	<250	--	<750	--	--	--	--	--	--	<1.0
MW-118	11/19/1998	106.72	7.70	0.00	99.02	<50	--	<250	--	<750	--	--	--	--	--	--	<1.0
MW-118	03/11/1999	106.72	5.81	0.00	100.91	<80	--	<250	--	<750	--	--	--	--	--	--	<1.0
MW-118	05/25/1999	106.72	7.39	0.00	99.33	<80	--	<250	--	--	--	--	--	--	--	--	--
MW-118	08/17/1999	106.72	7.95	0.00	98.77	<80	--	<250	--	<500	--	--	--	--	--	--	<1.0
MW-118	11/19/1999	106.72	5.53	0.00	101.19	<80	--	<250	--	--	--	--	--	--	--	--	<1.0
MW-118	03/09/2000	106.72	5.99	0.00	100.73	<80	--	<250	--	<500	--	--	--	--	--	--	<1.0
MW-118	06/13/2000	106.72	7.08	0.00	99.64	<80	--	<250	--	<500	--	--	--	--	--	--	<1.0
MW-118	09/26/2000	106.72	8.07	0.00	98.65	--	--	<250	--	<500	--	--	--	--	--	--	<1.0
MW-118	12/13/2000	106.72	7.53	0.00	99.19	--	--	<250	--	<500	--	--	--	--	--	--	<1.0
MW-118	02/28/2001	106.72	7.17	0.00	99.55	<80	--	<250	--	<500	--	--	--	--	--	--	<1.0
MW-118	05/02/2001	106.72	6.81	0.00	99.91	<80	--	<250	--	<500	--	--	--	--	--	--	<1.0
MW-118	12/30/2003	106.72	5.71	0.00	101.01	<500	--	<50	--	<400	<0.5	<0.5	<0.5	<1.5	--	--	<1.2
MW-118	07/20/2004	106.72	8.14	0.00	98.58	<50	--	<250	--	<500	<0.500	<0.500	<0.500	<1.00	--	--	--
MW-118	10/07/2004	106.72	7.55	0.00	99.17	<50	--	<76	--	<96	--	--	--	--	--	--	--
MW-118-DUP	10/07/2004	106.72	7.55	0.00	99.17	<50	--	<80	--	160	--	--	--	--	--	--	--
MW-118	10/20/2005	106.72	7.78	0.00	98.94	<48	--	<83	--	<100	--	--	--	--	--	--	--
MW-118	09/05/2007	106.72	8.20	0.00	98.52	<50	--	980	--	710	--	--	--	--	--	--	0.13
MW-118	8/27-29/2008	106.72	7.64	0.00	99.08	<50	--	260	--	230	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP
MW-118	11/17-19/2008	106.72	6.20	0.00	100.52	<50	--	<30	--	<70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP
MW-118	2/16-18/2009	106.72	7.29	0.00	99.43	<50	--	<29	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	0.068	LFP
MW-118	5/4-6/2009	106.72	6.70	0.00	100.02	<50	--	<30	--	<70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP
MW-118	8/19-21/2009	106.72	8.04	0.00	98.68	<50	--	<30	--	<70	<0.5	<0.5	<0.5	<0.5	<0.5	0.23	LFP

Table 2. Historical Groundwater Gauging Data and Select Analytical Results  
 COWLITZ BP / COWLITZ Food and Fuel / Former Texaco Service Station No. 211556  
 101 Mulford Road  
 Toledo, Washington

Well	Date	TOC	DTW	NAPL	GWE	TPH-GRO	TPH-DRO	TPH-DRO w/Si gel	TPH-HRO	TPH-HRO w/Si gel	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Dissolved Lead	Comments	
MW-118	11/18-20/2009	106.72	4.45	0.00	102.27	<50	--	<29	--	<68	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP	
MW-118	2/8-10/2010	106.72	6.65	0.00	100.07	<50	--	<29	--	<68	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP	
MW-118	5/12-13/2010	106.72	7.21	0.00	99.51	<50	--	<29	--	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP	
MW-118	08/12/2010	106.72	7.90	0.00	98.82	<50	--	<30	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052	LFP	
MW-118	11/3-4/2010	106.72	6.39	0.00	100.33	<50	--	<29	--	160	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052	LFP	
MW-118	2/3-4/2011	106.72	6.77	0.00	99.95	<50	--	<30	--	<70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052	LFP	
MW-118	8/23-24/11	106.72	8.15	0.00	98.57	<50	--	<29	--	<68	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080	LFP	
MW-118	11/7-9/2011	106.72	7.80	0.00	98.92	<50	--	<30	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080	LFP	
MW-118	2/6-8/2012	106.72	6.50	0.00	100.22	<50	--	<28	--	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080	LFP	
MW-118	5/2-4/2012	106.72	5.85	0.00	100.87	<50	--	<30	--	<70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080	LFP	
MW-118	8/1-3/2012	106.72	7.87	0.00	98.85	<50	--	97	--	230	<0.5	<0.5	<0.5	<0.5	<0.5	0.042	LFP	
MW-118	11/26-28/2012	106.72	5.84	0.00	100.88	<50	--	<30	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	<0.047	LFP	
MW-118	2/4-6/2013	106.72	6.57	0.00	100.15	<50	--	<29	--	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073	LFP	
MW-118	5/6-8/2013	106.72	7.47	0.00	99.25	<50	--	<29	--	<68	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073	LFP	
MW-118	9/9-13/2013	106.72	7.28	0.00	99.44	<50	<28	<28	<66	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085	LFP	
MW-118	11/18-21/2013	106.72	6.57	0.00	100.15	<50	<29	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	<0.5	0.15	LFP	
MW-118	2/4-11/2014	106.72	7.02	0.00	99.70	<50	<29	<29	<68	<68	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085	LFP	
MW-118	8/18-21/14	106.72	7.92	0.00	98.80	<50	<29	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	<0.5	0.41	LFP	
MW-118	11/19-20/2014	106.72	7.15	0.00	99.57	<50	<29	<29	<68	<68	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082	LFP	
MW-118	2/17-20/2015	106.72	6.54	0.00	100.18	<50	<29	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	<0.5	0.083	LFP	
MW-118	5/11-15/2015	106.72	8.93	0.00	97.79	<50	69	75	<67	<67	<0.5	<0.5	<0.5	<0.5	<0.5	0.170	LFP	
MW-118	8/10-11/2015	106.72	8.27	0.00	98.45	<50	<28	<28	<66	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.13	LFP	
MW-118	11/16-18/2015	106.72	4.69	0.00	102.03	<50	<29	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	<0.5	0.0067	LFP	
MW-118	5/13-14/2016	106.72	7.61	0.00	99.11				WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY									
MW-118	11/14/2016	106.72	6.36	0.00	100.36				WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY									
MW-118	05/14/2017	106.72	6.50	0.00	100.22				WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY									
MW-118	11/11-12/2017	106.72	6.52	0.00	100.20				WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY									
MW-118	05/11/2018	106.72	7.31	0.00	99.41				WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY									
MW-118	11/11-12/2018	106.72	7.34	0.00	99.38				WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY									
MW-118	04/27/2019	106.72	7.05	0.00	99.67				WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY									
MW-118	11/03/2019	106.72	7.66	0.00	99.06				WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY									
MW-118	Nov 2019	106.72	--	--	--				WELL ABANDONED									
MW-119	08/22/1995	108.35	9.22	0.00	99.13	<50	--	<250	--	<750	--	--	--	--	--	--		
MW-119	11/28/1995	108.35	7.54	0.00	100.81	100	--	<250	--	<750	--	--	--	--	--	--	<2.0	
MW-119	03/12/1996	108.35	8.21	0.00	100.14	240	--	<250	--	<750	--	--	--	--	--	--	2.2	
MW-119	06/26/1996	108.35	8.91	0.00	99.44	174	--	<250	--	<750	--	--	--	--	--	--	<2.0	
MW-119	10/09/1996	108.35	9.14	0.00	99.21	78	--	<250	--	<750	--	--	--	--	--	--	2.16	
MW-119	02/12/1997	108.35	7.84	0.00	100.51	<50	--	<250	--	<750	--	--	--	--	--	--	<2.0	
MW-119	04/22/1997	108.35	7.67	0.00	100.68	<50	--	<250	--	<750	--	--	--	--	--	--	<2.0	
MW-119	08/05/1997	108.35	9.15	0.00	99.20	53.6	--	<250	--	<750	--	--	--	--	--	--	<2.0	
MW-119	11/11/1997	108.35	8.02	0.00	100.33	<50	--	264	--	<750	--	--	--	--	--	--	<2.0	
MW-119	02/11/1998	108.35	8.02	0.00	100.33	<50	--	<250	--	<750	--	--	--	--	--	--	<2.0	
MW-119	05/28/1998	108.35	8.20	0.00	100.15	102	--	<250	--	<750	--	--	--	--	--	--	3.33	
MW-119	08/20/1998	108.35	10.40	0.00	97.95	<50	--	<250	--	<750	--	--	--	--	--	--	<1.0	
MW-119	11/19/1998	108.35	8.98	0.00	99.37	78.5	--	<250	--	<750	--	--	--	--	--	--	1.82	
MW-119	03/11/1999	108.35	7.61	0.00	100.74	<80	--	<250	--	<750	--	--	--	--	--	--	<1.0	
MW-119	05/25/1999	108.35	8.77	0.00	99.58	<80	--	<250	--	--	--	--	--	--	--	--	--	
MW-119	08/17/1999	108.35	9.29	0.00	99.06	<80	--	<250	--	<500	--	--	--	--	--	--	<1.0	
MW-119	11/19/1999	108.35	7.25	0.00	101.10	<80	--	<250	--	--	--	--	--	--	--	--	<1.0	
MW-119	03/09/2000	108.35	7.63	0.00	100.72	<80	--	<250	--	<500	--	--	--	--	--	--	<1.0	
MW-119	06/13/2000	108.35	8.28	0.00	100.07	413	--	<250	--	<500	--	--	--	--	--	--	2.64	
MW-119	09/26/2000	108.35	9.44	0.00	98.91	--	--	<250	--	<500	--	--	--	--	--	--	<1.0	
MW-119	12/13/2000	108.35	8.86	0.00	99.49	--	--	<250	--	<500	--	--	--	--	--	--	1.79	
MW-119	02/28/2001	108.35	8.56	0.00	99.79	227	--	<250	--	<500	--	--	--	--	--	--	2.64	
MW-119	05/02/2001	108.35	8.10	0.00	100.25	104	--	<250	--	<500	--	--	--	--	--	--	1.56	
MW-119	10/30/2002	108.35	9.76	0.00	98.59	<80	--	<250	--	<500	<0.500	<0.500	<0.500	<1.00	--	--	4.2	
MW-119	10/31/2003	108.35	8.62	0.00	99.73	<50	--	<250	--	<500	<0.500	<0.500	<0.500	<1.00	--	--	1.315	
MW-119	12/30/2003	108.35	7.40	0.00	100.95	<96	--	<50	--	<77	<0.5	<0.5	<0.5	<1.5	--	--	<1.2	
MW-119	10/07/2004	108.35	8.85	0.00	99.50	<50	--	<79	--	<98	--	--	--	--	--	--	--	
MW-119	10/20/2005	108.35	9.08	0.00	99.27	<48	--	<80	--	<100	--	--	--	--	--	--	--	
MW-119	09/05/2007	108.35	9.53	0.00	98.82	<50	--	<800	--	<1,000	--	--	--	--	--	--	0.57	
MW-119	8/27-29/2008	108.35	9.05	0.00	99.30	<50	--	<79	--	<99	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.52	
MW-119	11/17-19/2008	108.35	7.65	0.00	100.70	<50	--	<30	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	0.29	LFP	

Table 2. Historical Groundwater Gauging Data and Select Analytical Results  
 COWLITZ BP / COWLITZ Food and Fuel / Former Texaco Service Station No. 211556  
 101 Mulford Road  
 Toledo, Washington

Well	Date	TOC	DTW	NAPL	GWE	TPH-GRO	TPH-DRO	TPH-DRO w/Si gel	TPH-HRO	TPH-HRO w/Si gel	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Dissolved Lead	Comments
MW-119	2/16-18/2009	108.35	8.70	0.00	99.65	<50	--	45	--	<68	<0.5	<0.5	<0.5	<0.5	<0.5	0.44	LFP
MW-119	5/4-6/2009	108.35	8.06	0.00	100.29	<50	--	<30	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	0.74	LFP
MW-119	8/19-21/2009	108.35	9.45	0.00	98.90	<50	--	36	--	<70	<0.5	<0.5	<0.5	<0.5	<0.5	0.25	LFP
MW-119	11/18-20/2009	108.35	6.41	0.00	101.94	150	--	32	--	<68	<0.5	<0.5	<0.5	<0.5	<0.5	1	LFP
MW-119	2/8-10/2010	108.35	8.11	0.00	100.24	<50	--	<30	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	0.33	LFP
MW-119	5/12-13/2010	108.35	8.56	0.00	99.79	<50	--	<29	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	0.69	LFP
MW-119	08/12/2010	108.35	9.22	0.00	99.13	<50	--	<30	--	70	<0.5	<0.5	<0.5	<0.5	<0.5	0.36	LFP
MW-119	11/3-4/2010	108.35	7.52	0.00	100.83	<50	--	38	--	<67	<0.5	<0.5	<0.5	<0.5	<0.5	1.3	LFP
MW-119	2/3-4/2011	108.35	8.22	0.00	100.13	<50	--	30	--	<70	<0.5	<0.5	<0.5	<0.5	<0.5	0.30	LFP
MW-119	05/24/2011	108.35	8.37	0.00	99.98	<50	--	<30	--	210	<0.5	<0.5	<0.5	<0.5	<0.5	0.49	LFP
MW-119	11/7-9/2011	108.35	9.10	0.00	99.25	<50	--	<29	--	<68	<0.5	<0.5	<0.5	<0.5	<0.5	0.34	LFP
MW-119	2/6-8/2012	108.35	7.90	0.00	100.45	<50	--	<29	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080	LFP
MW-119	5/2-4/2012	108.35	8.00	0.00	100.35	<50	--	<30	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	0.26	LFP
MW-119	8/1-3/2012	108.35	9.23	0.00	99.12	<50	--	<30	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	0.27	LFP
MW-119	11/26-28/2012	108.35	7.43	0.00	100.92	<50	--	<29	--	<68	<0.5	<0.5	<0.5	<0.5	<0.5	0.10	LFP
MW-119	2/4-6/2013	108.35	7.99	0.00	100.36	<50	--	<29	--	<67	<0.5	<0.5	<0.5	<0.5	<0.5	0.099	LFP
MW-119	5/6-8/2013	108.35	8.76	0.00	99.59	<50	--	<28	--	<66	<0.5	<0.5	<0.5	<0.5	<0.5	0.15	LFP
MW-119	9/9-13/2013	108.35	8.51	0.00	99.84	<50	<28	<28	<66	<66	<0.5	<0.5	<0.5	<0.5	<0.5	0.26	LFP
MW-119	11/18-21/2013	108.35	7.67	0.00	100.68	<50	<29	<29	<68	<68	<0.5	<0.5	<0.5	<0.5	<0.5	0.80	LFP
MW-119	2/4-11/2014	108.35	8.47	0.00	99.88	<50	<29	<29	<68	<68	<0.5	<0.5	<0.5	<0.5	<0.5	0.16	LFP
MW-119	8/18-21/14	108.35	9.23	0.00	99.12	<50	<28	<28	<66	<66	<0.5	<0.5	<0.5	<0.5	<0.5	0.17	LFP
MW-119	11/19-20/2014	108.35	8.50	0.00	99.85	<50	<29	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	<0.5	0.14	LFP
MW-119	2/17-20/2015	108.35	7.97	0.00	100.38	<50	<28	<28	<66	<66	<0.5	<0.5	<0.5	<0.5	<0.5	0.18	LFP
MW-119	5/11-15/2015	108.35	8.96	0.00	99.39	<50	<28	<28	<66	<66	<0.5	<0.5	<0.5	<0.5	<0.5	0.24	LFP
MW-119	8/10-11/2015	108.35	9.70	0.00	98.65	<50	<28	<28	<66	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.13	LFP
MW-119	11/16-18/2015	108.35	6.43	0.00	101.92	<50	<29	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	<0.5	0.0041	LFP
MW-119	5/13-14/2016	108.35	8.39	0.00	99.96												
MW-119	11/14/2016	108.35	7.70	0.00	100.65												
MW-119	05/14/2017	108.35	7.85	0.00	100.50												
MW-119	11/11-12/2017	108.35	7.92	0.00	100.43												
MW-119	05/11/2018	108.35	8.60	0.00	99.75												
MW-119	11/11-12/2018	108.35	8.62	0.00	99.73												
MW-119	11/7-9/2011	108.35	8.00	0.00	99.11	740	--	220	--	160	<0.5	<0.5	<0.5	<0.5	<0.5	1.8	LFP
MW-119	2/6-8/2012	108.35	6.80	0.00	101.55	<50	--	<30	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080	LFP
MW-119	5/2-4/2012	108.35	6.20	0.00	102.15	<50	--	<29	--	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080	LFP
MW-119	8/1-3/2012	108.35	8.11	0.00	99.00	<50	--	59	--	75	<0.5	<0.5	<0.5	<0.5	<0.5	0.29	LFP
MW-119	11/26-28/2012	108.35	6.21	0.00	102.14	<50	--	<29	--	<68	<0.5	<0.5	<0.5	<0.5	<0.5	<0.047	LFP
MW-119	2/4-6/2013	108.35	6.84	0.00	101.51	<50	--	<29	--	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073	LFP
MW-119	5/6-8/2013	108.35	7.64	0.00	100.71	<50	--	<28	--	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073	LFP
MW-119	9/9-13/2013	108.35	7.36	0.00	99.75	<50	<28	<28	<66	<66	<0.5	<0.5	<0.5	<0.5	<0.5	0.15	LFP
MW-119	11/18-21/2013	108.35	6.61	0.00	100.50	<50	<29	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	<0.5	0.088	LFP
MW-119	2/4-11/2014	108.35	7.32	0.00	101.03	<50	<29	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085	LFP
MW-119	6/12-14/2014	108.35	7.70	0.00	100.65	<50	<29	<29	<68	<68	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082	LFP
MW-119	8/18-21/14	108.35	8.13	0.00	98.98	<50	<28	<28	<66	<66	<0.5	<0.5	<0.5	<0.5	<0.5	0.32	LFP
MW-119	11/19-20/2014	108.35	7.37	0.00	100.98	<50	<29	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082	LFP
MW-119	04/27/2019	108.35	8.39	0.00	99.96												
MW-119	11/03/2019	108.35	8.34	0.00	100.01												
MW-119	Nov 2019	108.35	--	--	--												
MW-120	2/17-20/2015	107.11	6.83	0.00	100.28	<50	<29	<29	<68	<68	<0.5	<0.5	<0.5	<0.5	<0.5	0.22	LFP
MW-120	5/11-15/2015	107.11	7.71	0.00	99.40	<50	<29	<29	<68	<68	<0.5	<0.5	<0.5	<0.5	<0.5	0.10	LFP
MW-120	8/10-11/2015	107.11	8.53	0.00	98.58	<50	<28	<28	<66	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.13	LFP
MW-120	11/16-18/2015	107.11	4.94	0.00	102.17	<50	<28	<28	<66	<66	<0.5	<0.5	<0.5	<0.5	<0.5	0.0019	LFP
MW-120	5/13-14/2016	107.11	7.81	0.00	99.30												
MW-120	11/14/2016	107.11	6.47	0.00	100.64												
MW-120	05/14/2017	107.11	6.67	0.00	100.44												
MW-120	11/11-12/2017	107.11	6.69	0.00	100.42												
MW-120	05/11/2018	107.11	7.49	0.00	99.62												
MW-120	11/11-12/2018	107.11	7.46	0.00	99.65												
MW-120	11/03/2019	107.11	7.50	0.00	99.61												
MW-120	Nov 2019	107.11	--	--	--												
B-1	02/14/1991	107.74	--	--	--	5,100	--	<250	--	--	--	--	--	--	--	--	
B-1	02/14/1992	107.74	6.90	0.00	100.84	--	--	--	--	--	--	--	--	--	--	--	

Table 2. Historical Groundwater Gauging Data and Select Analytical Results  
 COWLITZ BP / COWLITZ Food and Fuel / Former Texaco Service Station No. 211556  
 101 Mulford Road  
 Toledo, Washington

Well	Date	TOC	DTW	NAPL	GWE	TPH-GRO	TPH-DRO	TPH-DRO w/Si gel	TPH-HRO	TPH-HRO w/Si gel	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Dissolved Lead	Comments
B-1	02/18/1992	107.74	6.72	0.00	101.02	--	--	--	--	--	--	--	--	--	--	--	
B-1	03/13/1992	107.74	6.93	0.00	100.81	<50	--	--	--	--	--	--	--	--	--	--	
B-1	04/21/1992	107.74	6.66	0.00	101.08	--	--	--	--	--	--	--	--	--	--	--	
B-1	08/22/1995	107.74	8.03	0.00	99.71	<50	--	<250	--	<750	--	--	--	--	--	--	
B-1	11/28/1995	107.74	6.13	0.00	101.61	<50	--	<250	--	<750	--	--	--	--	--	<2	
B-1	03/11/1996	107.74	6.99	0.00	100.75	<50	--	<250	--	<750	--	--	--	--	--	7.5	
B-1	06/26/1996	107.74	7.73	0.00	100.01	<50	--	<250	--	<750	--	--	--	--	--	<2	
B-1	10/09/1996	107.74	8.05	0.00	99.69	<50	--	<250	--	<750	--	--	--	--	--	<2	
B-1	02/12/1997	107.74	6.46	0.00	101.28	<50	--	<250	--	<750	--	--	--	--	--	<2	
B-1	04/22/1997	107.74	6.25	0.00	101.49	<50	--	<250	--	<750	--	--	--	--	--	<2	
B-1	08/05/1997	107.74	8.20	0.00	99.54	<50	--	<250	--	<750	--	--	--	--	--	<2	
B-1	11/11/1997	107.74	6.84	0.00	100.90	<50	--	300	--	<750	--	--	--	--	--	<2	
B-1	02/11/1998	107.74	6.70	0.00	101.04	<50	--	<250	--	<750	--	--	--	--	--	<2	
B-1	05/28/1998	107.74	6.85	0.00	100.89	<50	--	<250	--	<750	--	--	--	--	--	<1	
B-1	08/20/1998	107.74	9.42	0.00	98.32	<50	--	<250	--	<750	--	--	--	--	--	<1	
B-1	11/19/1998	107.74	7.43	0.00	100.31	<50	--	<250	--	<750	--	--	--	--	--	<1	
B-1	03/11/1999	107.74	6.34	0.00	101.40	<80	--	<250	--	<750	--	--	--	--	--	<1	
B-1	05/25/1999	107.74	7.60	0.00	100.14	<80	--	<1,450	--	--	--	--	--	--	--	--	
B-1	08/17/1999	107.74	8.28	0.00	99.46	<80	--	<250	--	<500	--	--	--	--	--	<1	
B-1	11/19/1999	107.74	5.90	0.00	101.84	<80	--	<250	--	--	--	--	--	--	--	<1	
B-1	03/09/2000	107.74	6.38	0.00	101.36	<80	--	<250	--	<500	--	--	--	--	--	<1	
B-1	06/12/2000	107.74	6.26	0.00	101.48	<80	--	<250	--	<500	--	--	--	--	--	<1	
B-1	09/26/2000	107.74	8.51	0.00	99.23	--	--	<250	--	<500	--	--	--	--	--	<1	
B-1	12/13/2000	107.74	7.69	0.00	100.05	--	--	<250	--	<500	--	--	--	--	--	<1	
B-1	02/28/2001	107.74	7.37	0.00	100.37	<80	--	<250	--	<500	--	--	--	--	--	<1	
B-1	05/02/2001	107.74	6.69	0.00	101.05	109	--	<250	--	<500	--	--	--	--	--	<1	
B-1	12/30/2003	107.74	6.11	0.00	101.63	<98	--	<50	--	<78	<0.5	<0.5	<0.5	<1.5	--	<1.2	
B-1	10/06/2004	107.74	8.87	0.00	98.87	<50	--	81	--	100	--	--	--	--	--	--	
B-1	10/24/2005	107.74	7.96	0.00	99.78	<48	--	<81	--	<100	--	--	--	--	--	--	
B-1	09/05/2007	107.74	8.60	0.00	99.14	<50	--	<80	--	<100	--	--	--	--	--	0.13	
B-1	5/27-28/2008	107.74	7.85	0.00	99.89	<50	--	<75	--	<94	<0.5	0.6	<0.5	<0.5	<0.5	<0.050	LFP
B-1	8/27-29/2008	107.74	8.00	0.00	99.74	<50	--	<82	--	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP
B-1	11/17-19/2008	107.74	6.39	0.00	101.35	<50	--	83	--	<70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP
B-1	2/16-18/2009	107.74	7.55	0.00	100.19	<50	--	300	--	2,000	<0.5	<0.5	<0.5	<0.5	<0.5	0.098	LFP
B-1	5/4-6/2009	107.74	6.47	0.00	101.27	<50	--	39	--	<70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP
B-1	8/19-21/2009	107.74	8.54	0.00	99.20	<50	--	90	--	<70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP
B-1	11/18-20/2009	107.74	5.35	0.00	102.39	66	--	60	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	0.22	LFP
B-1	2/8-10/2010	107.74	6.89	0.00	100.85	<50	--	<30	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP
B-1	5/12-13/2010	107.74	7.34	0.00	100.40	<50	--	70	--	82	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP
B-1	08/11/2010	107.74	8.16	0.00	99.58	<50	--	<30	--	83	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052	LFP
B-1	11/3-4/2010	107.74	6.02	0.00	101.72	<50	--	<30	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052	LFP
B-1	2/3-4/2011	107.74	7.03	0.00	100.71	<50	--	<30	--	<70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052	LFP
B-1	05/24/2011	107.74	7.10	0.00	100.64	<50	--	<29	--	<68	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052	LFP
B-1	8/23-24/11	107.74	8.46	0.00	99.28	<50	--	<30	--	<71	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080	LFP
B-1	11/7-9/2011	107.74	8.10	0.00	99.64	<50	--	<28	--	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080	LFP
B-1	2/6-8/2012	107.74	6.75	0.00	100.99	<50	--	<30	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	0.11	LFP
B-1	5/2-4/2012	107.74	6.45	0.00	101.29	<50	--	<30	--	<70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080	LFP
B-1	8/1-3/2012	107.74	8.23	0.00	99.51	<50	--	<30	--	<71	<0.5	<0.5	<0.5	<0.5	<0.5	<0.034	LFP
B-1	11/26-28/2012	107.74	6.29	0.00	101.45	<50	--	<29	--	<68	<0.5	<0.5	<0.5	<0.5	<0.5	<0.047	LFP
B-1	2/4-6/2013	107.74	6.81	0.00	100.93	<50	--	<29	--	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073	LFP
B-1	5/6-8/2013	107.74	8.66	0.00	99.08	<50	--	<28	--	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073	LFP
B-1	9/9-13/2013	107.74	7.18	0.00	100.56	<50	<29	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085	LFP
B-1	11/18-22/2013	107.74	6.64	0.00	101.10	<50	<29	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085	LFP
B-1	2/4-11/2014	107.74	7.25	0.00	100.49	<50	<29	<29	<68	<68	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085	LFP
B-1	6/12-14/2014	107.74	7.87	0.00	99.87	<50	<28	<28	<66	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085	LFP
B-1	8/18-21/14	107.74	8.40	0.00	99.34	<50	<28	<28	<66	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082	LFP
B-1	11/19-20/2014	107.74	7.43	0.00	100.31	<50	<29	<29	<68	<68	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082	LFP
B-1	2/17-20/2015	107.74	6.79	0.00	100.95	<50	<28	<28	<66	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082	LFP
B-1	5/11-15/2015	107.74	8.77	0.00	98.97	<50	<28	<28	<66	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082	LFP
B-1	8/10-11/2015	107.74	8.80	0.00	98.94	<50	89	<28	74	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.13	LFP
B-1	11/16-18/2015	107.74	4.69	0.00	103.05	<50	<28	<28	<66	<66	<0.5	<0.5	<0.5	<0.5	<0.5	0.00063	LFP
B-1	5/13-14/2016	107.74	7.80	0.00	99.94	<50	--	<29	--	<67	<0.5	<0.5	<0.5	<0.5	--	<0.13	LFP
B-1	11/14/2016	107.74	6.15	0.00	101.59	<50	--	51	--	<67	<0.5	<0.5	<0.5	<0.5	--	<0.090	LFP
B-1	05/14/2017	107.74	6.51	0.00	101.23	<50	--	<28	--	<66	<0.5	<0.5	<0.5	<0.5	--	<0.090	LFP



Table 2. Historical Groundwater Gauging Data and Select Analytical Results  
 COWLITZ BP / COWLITZ Food and Fuel / Former Texaco Service Station No. 211556  
 101 Mulford Road  
 Toledo, Washington

Well	Date	TOC	DTW	NAPL	GWE	TPH-GRO	TPH-DRO	TPH-DRO w/Si gel	TPH-HRO	TPH-HRO w/Si gel	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Dissolved Lead	Comments
B-1	11/11-12/2017	107.74	7.42	0.00	100.32	<50	--	<28	--	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.11	LFP
B-1	05/11/2018	107.74	7.31	0.00	100.43	<50	--	<29	--	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.11	LFP
B-1	11/11-12/2018	107.74	7.48	0.00	100.26	<19	--	30	--	<67	<0.2	<0.2	<0.4	<1	--	<1.1	LFP
B-1	04/27/2019	107.74	7.23	0.00	100.51	<19	--	32 J	--	<66	<0.2	<0.2	<0.4	<1	--	<1.1	LFP
B-1	11/03/2019	107.74	7.45	0.00	100.29	<19	--	<29	--	<66	<0.2	<0.2	<0.4	<1	--	0.30 J	LFP
B-1	05/06/2020	107.74	7.46	0.00	100.28	32.9 B J	<200	--	--	<250	<1.00	<1.00	<1.00	<3.00	--	<5.00	LFP
B-1	11/7/2020	107.74	6.6	0.00	101.14	--	--	--	--	--	--	--	--	--	--	--	--
B-2	02/14/1991	108.99	--	--	--	180	--	<250	--	--	--	--	--	--	--	--	--
B-2	02/14/1992	108.99	8.08	0.00	100.91	--	--	--	--	--	--	--	--	--	--	--	--
B-2	02/18/1992	108.99	7.97	0.00	101.02	--	--	--	--	--	--	--	--	--	--	--	--
B-2	03/09/1992	108.99	7.88	0.00	101.11	--	--	--	--	--	--	--	--	--	--	--	--
B-2	03/13/1992	108.99	8.12	0.00	100.87	--	--	--	--	--	--	--	--	--	--	--	--
B-2	04/21/1992	108.99	7.82	0.00	101.17	--	--	--	--	--	--	--	--	--	--	--	--
B-2	08/22/1995	108.99	9.30	0.00	99.69	<50	--	<250	--	<750	--	--	--	--	--	--	--
B-2	11/27/1995	108.99	7.33	0.00	101.66	<50	--	<250	--	<750	--	--	--	--	--	<2	--
B-2	03/12/1996	108.99	8.20	0.00	100.79	<50	--	<250	--	<750	--	--	--	--	--	<2	--
B-2	06/27/1996	108.99	8.95	0.00	100.04	<50	--	<250	--	<750	--	--	--	--	--	<2	--
B-2	10/10/1996	108.99	9.28	0.00	99.71	<50	--	<250	--	<750	--	--	--	--	--	<2	--
B-2	02/12/1997	108.99	7.73	0.00	101.26	<50	--	<250	--	<750	--	--	--	--	--	<2	--
B-2	04/22/1997	108.99	7.41	0.00	101.58	<50	--	<250	--	<750	--	--	--	--	--	2	--
B-2	08/05/1997	108.99	9.40	0.00	99.59	<50	--	<250	--	<750	--	--	--	--	--	<2	--
B-2	11/11/1997	108.99	8.00	0.00	100.99	<50	--	<250	--	<750	--	--	--	--	--	<2	--
B-2	02/11/1998	108.99	7.90	0.00	101.09	<50	--	<250	--	<750	--	--	--	--	--	<2	--
B-2	05/28/1998	108.99	8.03	0.00	100.96	<50	--	<250	--	<750	--	--	--	--	--	<1	--
B-2	08/20/1998	108.99	10.64	0.00	98.35	<50	--	<250	--	<750	--	--	--	--	--	<1	--
B-2	11/19/1998	108.99	8.67	0.00	100.32	<50	--	<250	--	<750	--	--	--	--	--	<1	--
B-2	03/11/1999	108.99	7.56	0.00	101.43	<80	--	<250	--	<500	--	--	--	--	--	<1	--
B-2	05/25/1999	108.99	8.82	0.00	100.17	<80	--	<250	--	<1,600	--	--	--	--	--	--	--
B-2	08/17/1999	108.99	9.51	0.00	99.48	<80	--	<250	--	<500	--	--	--	--	--	<1	--
B-2	11/19/1999	108.99	7.08	0.00	101.91	<80	--	<250	--	<500	--	--	--	--	--	<1	--
B-2	03/09/2000	108.99	7.59	0.00	101.40	<80	--	<250	--	<500	--	--	--	--	--	<1	--
B-2	06/12/2000	108.99	8.00	0.00	100.99	<80	--	<250	--	<500	--	--	--	--	--	<1	--
B-2	09/26/2000	108.99	9.74	0.00	99.25	--	--	<250	--	<500	--	--	--	--	--	<1	--
B-2	12/13/2000	108.99	8.91	0.00	100.08	--	--	<250	--	<500	--	--	--	--	--	<1	--
B-2	02/28/2001	108.99	8.59	0.00	100.40	<80	--	<250	--	<500	--	--	--	--	--	<1	--
B-2	05/02/2001	108.99	7.89	0.00	101.10	<80	--	<250	--	<500	--	--	--	--	--	<1	--
B-2	12/30/2003	108.99	7.36	0.00	101.63	--	--	<50	--	--	<0.5	<0.5	<0.5	<1.5	--	<1.2	--
B-2	10/06/2004	108.99	7.65	0.00	101.34	<50	--	<79	--	<99	--	--	--	--	--	--	--
B-2	07/18/2005	108.99	9.20	0.00	99.79	<48	--	<77	--	<96	--	--	--	--	--	--	--
B-2	10/21/2005	108.99	9.17	0.00	99.82	<48	--	<82	--	<100	--	--	--	--	--	--	--
B-2	09/05/2007	108.99	9.83	0.00	99.16	<50	--	<81	--	<100	--	--	--	--	--	0.1	--
B-2	8/27-29/2008	108.99	9.28	0.00	99.71	<50	--	<80	--	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP
B-2	11/17-19/2008	108.99	7.57	0.00	101.42	<50	--	<30	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP
B-2	2/16-18/2009	108.99	8.77	0.00	100.22	<50	--	<29	--	<68	<0.5	<0.5	<0.5	<0.5	<0.5	0.070	LFP
B-2	5/4-6/2009	108.99	7.69	0.00	101.30	<50	--	<29	--	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP
B-2	8/19-21/2009	108.99	9.75	0.00	99.24	<50	--	<30	--	<70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP
B-2	11/18-20/2009	108.99	6.46	0.00	102.53	<50	--	94	--	<68	<0.5	<0.5	<0.5	<0.5	<0.5	0.15	LFP
B-2	2/8-10/2010	108.99	8.10	0.00	100.89	<50	--	<30	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP
B-2	5/12-13/2010	108.99	8.55	0.00	100.44	<50	--	<29	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP
B-2	08/11/2010	108.99	9.38	0.00	99.61	<50	--	<29	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052	LFP
B-2	11/3-4/2010	108.99	7.20	0.00	101.79	<50	--	<29	--	<68	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052	LFP
B-2	2/3-4/2011	108.99	8.25	0.00	100.74	<50	--	<29	--	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052	LFP
B-2	05/24/2011	108.99	8.33	0.00	100.66	<50	--	<30	--	140	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052	LFP
B-2	8/23-24/11	108.99	9.70	0.00	99.29	<50	--	<30	--	<70	<0.5	<0.5	<0.5	<0.5	<0.5	0.26	LFP
B-2	11/7-9/2011	108.99	9.30	0.00	99.69	<50	--	<29	--	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080	LFP
B-2	2/6-8/2012	108.99	7.95	0.00	101.04	<50	--	<29	--	<67	<0.5	<0.5	<0.5	<0.5	<0.5	0.10	LFP
B-2	5/2-4/2012	108.99	7.40	0.00	101.59	<50	--	<29	--	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080	LFP
B-2	8/1-3/2012	108.99	8.20	0.00	100.79	<50	--	<31	--	<72	<0.5	<0.5	<0.5	<0.5	<0.5	<0.034	LFP
B-2	11/26-28/2012	108.99	7.47	0.00	101.52	<50	--	<37	--	<86	<0.5	<0.5	<0.5	<0.5	<0.5	<0.047	LFP
B-2	2/4-6/2013	108.99	8.04	0.00	100.95	<50	--	<29	--	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073	LFP
B-2	5/6-8/2013	108.99	8.89	0.00	100.10	<50	--	<28	--	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073	LFP
B-2	9/9-13/2013	108.99	8.41	0.00	100.58	<50	<29	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085	LFP
B-2	11/18-22/2013	108.99	7.77	0.00	101.22	<50	<29	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085	LFP

Table 2. Historical Groundwater Gauging Data and Select Analytical Results  
 COWLITZ BP / COWLITZ Food and Fuel / Former Texaco Service Station No. 211556  
 101 Mulford Road  
 Toledo, Washington



Well	Date	TOC	DTW	NAPL	GWE	TPH-GRO	TPH-DRO	TPH-DRO w/Si gel	TPH-HRO	TPH-HRO w/Si gel	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Dissolved Lead	Comments
B-2	2/4-11/2014	108.99	8.47	0.00	100.52	<50	<28	<28	<66	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085	LFP
B-2	6/12-14/2014	108.99	8.91	0.00	100.08	<50	<29	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085	LFP
B-2	8/18-21/14	108.99	9.53	0.00	99.46	<50	<29	<29	<68	<68	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082	LFP
B-2	11/19-20/2014	108.99	8.54	0.00	100.45	<50	<29	<29	<68	<68	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082	LFP
B-2	2/17-20/2015	108.99	7.93	0.00	101.06	<50	<29	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082	LFP
B-2	5/11-15/2015	108.99	8.91	0.00	100.08	<50	<28	<28	<66	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082	LFP
B-2	8/10-11/2015	108.99	10.01	0.00	98.98	<50	<29	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	<0.5	1.20	LFP
B-2	11/16-18/2015	108.99	5.75	0.00	103.24	<50	<29	<29	<67	<67	<0.5	<0.5	<0.5	<0.5	<0.5	0.00060	LFP
B-2	5/13-14/2016	108.99	9.02	0.00	99.97	<50	--	37	--	<67	<0.5	<0.5	<0.5	<0.5	--	<0.13	LFP
B-2	11/14/2016	108.99	7.47	0.00	101.52	<50	--	<28	--	<66	<0.5	<0.5	<0.5	<0.5	--	<0.090	LFP
B-2	05/14/2017	108.99	7.72	0.00	101.27	<50	--	<28	--	<66	<0.5	<0.5	<0.5	<0.5	--	<0.090	LFP
B-2	11/11-12/2017	108.99	6.41	0.00	102.58	<50	--	<29	--	<67	<0.5	<0.5	<0.5	<0.5	--	<0.11	LFP
B-2	05/11/2018	108.99	8.47	0.00	100.52	<50	--	<28	--	<66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.11	LFP
B-2	11/11-12/2018	108.99	8.63	0.00	100.36	<19	--	<29	--	<67	<0.2	<0.2	<0.4	<1	--	<1.1	LFP
B-2	04/27/2019	108.99	8.43	0.00	100.56	<19	--	31 J	--	<66	<0.2	<0.2	<0.4	<1	--	<1.1	LFP
B-2	11/03/2019	108.99	8.66	0.00	100.33	<19	--	67 J	--	<66	<0.2	<0.2	<0.4	<1	--	1.2	LFP
B-2	05/06/2020	108.99	8.67	0.00	100.32	32.6 B J	<200	--	--	<250	<1.00	<1.00	<1.00	<3.00	--	<5.00	
B-2	11/7/2020	108.99	7.59	0.00	101.40	--	--	--	--	--	--	--	--	--	--	--	
B-3	02/14/1991	108.46	--	--	--	98,000	--	<250	--	--	--	--	--	--	--	--	
B-3	02/14/1992	108.46	7.82	0.00	100.64	--	--	--	--	--	--	--	--	--	--	--	
B-3	02/18/1992	108.46	7.82	0.00	100.64	--	--	--	--	--	--	--	--	--	--	--	
B-3	03/09/1992	108.46	7.55	0.00	100.91	--	--	--	--	--	--	--	--	--	--	--	
B-3	03/13/1992	108.46	7.82	0.00	100.64	28,000	--	31,000	--	--	--	--	--	--	--	--	
B-3	04/21/1992	108.46	7.50	0.00	100.96	--	--	--	--	--	--	--	--	--	--	--	
B-3	03/03/1994	108.46	--	--	--	43,000	--	3,940	--	<750	--	--	--	--	--	--	
B-3	08/23/1995	108.46	8.93	0.00	99.53	46,000	--	2,600	--	<750	--	--	--	--	--	--	
B-3	11/28/1995	108.46	7.12	0.00	101.34	63,000	--	1,500	--	<750	--	--	--	--	--	--	
B-3	03/12/1996	108.46	7.85	0.00	100.61	42,000	--	900	--	<750	--	--	--	--	--	--	
B-3	06/27/1996	108.46	8.67	0.00	99.79	37,900	--	1,510	--	1,080	--	--	--	--	--	--	
B-3	10/10/1996	108.46	8.97	0.00	99.49	16,200	--	729	--	<750	--	--	--	--	--	--	
B-3	02/12/1997	108.46	7.55	0.00	100.91	35,200	--	4,060	--	986	--	--	--	--	--	--	
B-3	04/22/1997	108.46	7.30	0.00	101.16	31,900	--	3,980	--	767	--	--	--	--	--	--	
B-3	08/02/1997	108.46	9.05	0.00	99.41	20,400	--	3,370	--	1,270	--	--	--	--	--	--	
B-3	11/11/1997	108.46	6.76	0.00	101.70	28,400	--	3,230	--	777	--	--	--	--	--	--	
B-3	02/11/1998	108.46	7.54	0.00	100.92	28,400	--	3,240	--	1,460	--	--	--	--	--	--	
B-3	05/28/1998	108.46	7.76	0.00	100.70	34,600	--	3,360	--	<750	--	--	--	--	29.5	--	
B-3	08/20/1998	108.46	10.30	0.00	98.16	32,900	--	2,150	--	<750	--	--	--	--	<1.89	--	
B-3	11/19/1998	108.46	8.39	0.00	100.07	23,800	--	6,650	--	<3,750	--	--	--	--	--	--	
B-3	03/11/1999	108.46	7.15	0.00	101.31	17,000	--	2,920	--	<5,000	--	--	--	--	--	--	
B-3	05/25/1999	108.46	8.50	0.00	99.96	30,500	--	1,850	--	--	--	--	--	--	--	--	
B-3	08/17/1999	108.46	9.15	0.00	99.31	29,600	--	2,570	--	711	--	--	--	--	--	--	
B-3	11/19/1999	108.46	6.76	0.00	101.70	30,700	--	7,880	--	--	--	--	--	--	--	--	
B-3	03/09/2000	108.46	7.24	0.00	101.22	10,400	--	<250	--	<500	--	--	--	--	--	--	
B-3	06/13/2000	108.46	8.15	0.00	100.31	23,000	--	<250	--	<500	--	--	--	--	--	--	
B-3	09/26/2000	108.46	9.35	0.00	99.11	--	--	<250	--	<500	--	--	--	--	--	--	
B-3	12/13/2000	108.46	8.58	0.00	99.88	21,600	--	<250	--	<500	--	--	--	--	--	--	
B-3	02/28/2001	108.46	8.28	0.00	100.18	25,700	--	<250	--	<500	--	--	--	--	--	--	
B-3	05/02/2001	108.46	7.79	0.00	100.67	17,200	--	<250	--	<500	--	--	--	--	--	--	
B-3	12/30/2003	108.46	7.04	0.00	101.42	<980	--	14,000	--	3,800	<5.0	1.9	130	61	--	17.3	
B-3	07/20/2004	108.46	9.31	0.00	99.15	13,200	--	1,220	--	<500	12.5	<10.0	874	204	--	24.6	
B-3	10/06/2004	108.46	8.68	0.00	99.78	13,000	--	1,200	--	<500	--	--	--	--	--	--	
B-3	01/27/2005	108.46	7.70	0.00	100.76	6,200	--	1,100	--	<190	--	--	--	--	--	--	
B-3	04/12/2005	108.46	7.21	0.00	101.25	5,300	--	1,200	--	<100	--	--	--	--	--	--	
B-3	07/18/2005	108.46	8.83	0.00	99.63	6,400	--	1,200	--	<97	--	--	--	--	--	--	
B-3	10/21/2005	108.46	8.85	0.00	99.61	8,900	--	2,400	--	<510	--	--	--	--	--	--	
B-3	09/04/2007	108.46	9.41	0.00	99.05	10,000	--	1,500	--	<200	--	--	--	--	--	--	
B-3	5/27-28/2008	108.46	8.73	0.00	99.73	3,700	--	2,400	--	<540	2	2	98	3	<0.5	20.2	LFP
B-3	8/27-29/2008	108.46	8.85	0.00	99.61	10,000	--	2,400	--	<98	5	2	230	17	<0.5	21.5	LFP
B-3	11/17-19/2008	108.46	7.13	0.00	101.33	7,100	--	1,700	--	<690	<0.5	<0.5	57	2	<0.5	20	LFP
B-3	2/16-18/2009	108.46	8.40	0.00	100.06	8,800	--	1,900	--	<340	180	130	130	21	<0.5	19.5	LFP
B-3	5/4-6/2009	108.46	7.65	0.00	100.81	5,800	--	2,400	--	<340	68	15	120	7	<0.5	13.1	LFP
B-3	8/19-21/2009	108.46	9.33	0.00	99.13	5,900	--	2,900	--	<360	39	10	170	16	<0.5	19	LFP
B-3	11/18-20/2009	108.46	6.35	0.00	102.11	2,500	--	2,200	--	<340	1	<0.5	12	1	<0.5	16.5	LFP

Table 2. Historical Groundwater Gauging Data and Select Analytical Results  
 COWLITZ BP / COWLITZ Food and Fuel / Former Texaco Service Station No. 211556  
 101 Mulford Road  
 Toledo, Washington

Well	Date	TOC	DTW	NAPL	GWE	TPH-GRO	TPH-DRO	TPH-DRO w/Si gel	TPH-HRO	TPH-HRO w/Si gel	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Dissolved Lead	Comments
B-3	2/8-10/2010	108.46	7.73	0.00	100.73	6,200	--	1,700	--	140	2	<0.5	25	1	<0.5	9.9	LFP
B-3	5/12-13/2010	108.46	8.18	0.00	100.28	8,200	--	1,200	--	<68	2	<0.5	47	2	<0.5	10.3	LFP
B-3	08/11/2010	108.46	9.00	0.00	99.46	5,900	--	2,700	--	<340	7	1.0	270	20	<0.5	19.3	LFP
B-3	11/3-4/2010	108.46	6.96	0.00	101.50	3,100	--	2,500	--	<350	0.60	<0.5	24	1	<0.5	13.3	LFP
B-3	2/3-4/2011	108.46	6.70	0.00	101.76	4,900	--	1,400	--	<340	0.80	<0.5	53	2	<0.5	10.2	LFP
B-3	05/24/2011	108.46	7.96	0.00	100.50	1,800	--	1,200	--	300	1	<0.5	76	3	<0.5	14	LFP
B-3	8/23-24/11	108.46	9.24	0.00	99.22	3,700	--	960	--	<72	8	2	160	8	<0.5	11.7	LFP
B-3	11/7-9/2011	108.46	8.95	0.00	99.51	5,800	--	1,500	--	460	7	2	180	6	<0.5	12.3	LFP
B-3	2/6-8/2012	108.46	7.40	0.00	101.06	<50	--	<31	--	<71	<0.5	<0.5	<0.5	<0.5	<0.5	4.4	LFP
B-3	5/2-4/2012	108.46	7.50	0.00	100.96	1,300	--	53	--	<72	<0.5	<0.5	19	<0.5	0.7	3.9	LFP
B-3	8/1-3/2012	108.46	8.24	0.00	100.22	600	--	460	--	110	0.6	<0.5	1	<0.5	<0.5	8.0	LFP
B-3	11/26-28/2012	108.46	6.98	0.00	101.48	500	--	73	--	<68	<0.5	<0.5	0.8	<0.5	<0.5	7.4	LFP
B-3	2/4-6/2013	108.46	6.33	0.00	102.13	120	--	45	--	<66	<0.5	<0.5	<0.5	<0.5	<0.5	5.6	LFP
B-3	5/6-8/2013	108.46	8.50	0.00	99.96	2,600	--	150	--	<67	<0.5	<0.5	73	3	<0.5	8.9	LFP
B-3	9/9-13/2013	108.46	8.09	0.00	100.37	1,700	2,700	160	72	<66	0.6	<0.5	37	0.9	<0.5	16.0	LFP
B-3	11/18-22/2013	108.46	6.45	0.00	102.01	190	1,600	42	180	<67	<0.5	<0.5	<0.5	<0.5	<0.5	11.2	LFP
B-3	2/4-11/2014	108.46	8.10	0.00	100.36	480	730	36	<67	<67	<0.5	<0.5	2	<0.5	<0.5	7.4	LFP
B-3	6/12-14/2014	108.46	8.69	0.00	99.77	260	780	100	100	<66	<0.5	<0.5	1	<0.5	<0.5	8.3	LFP
B-3	8/18-21/14	108.46	9.23	0.00	99.23	1,000	1,000	180	170	<68	<0.5	<0.5	9	0.7	<0.5	8.9	LFP
B-3	11/19-20/2014	108.46	8.17	0.00	100.29	900	1,400	130	160	<67	<0.5	<0.5	7	<0.5	<0.5	13.4	LFP
B-3	2/17-20/2015	108.46	6.36	0.00	102.10	650	490	150	180	<66	<0.5	<0.5	<0.5	<0.5	<0.5	2.9	LFP
B-3	5/11-15/2015	108.46	8.16	0.00	100.30	1,400	690	120	<66	<66	<0.5	<0.5	33	0.9	<0.5	0.0081	LFP
B-3	8/10-11/2015	108.46	9.59	0.00	98.87	660	2,000	130	550	<67	<0.5	<0.5	5	0.5	<0.5	9.5	LFP
B-3	11/16-18/2015	108.46	5.58	0.00	102.88	880	1,200	57	180	<67	<0.5	<0.5	2	<0.5	<0.5	0.0185	LFP
B-3	5/13-14/2016	108.46	8.64	0.00	99.82	400	650	38	220	<67	<0.5	<0.5	1	<0.5	--	5.1	LFP
B-3	11/14/2016	108.46	7.45	0.00	101.01	560	380	<29	<67	<67	<0.5	<0.5	1	<0.5	--	10.6	LFP
B-3	05/14/2017	108.46	7.44	0.00	101.02	230	92	<28	<66	<66	<0.5	<0.5	1	<0.5	--	2.3	LFP
B-3	11/11-12/2017	108.46	7.47	0.00	100.99	860	270	32	<67	<67	3	<0.5	2	<0.5	--	11.4	LFP
B-3	05/11/2018	108.46	8.14	0.00	100.32	900	82	33	68	<67	<0.5	<0.5	5	<0.5	<0.5	0.76	LFP
B-3	11/11-12/2018	108.46	8.24	0.00	100.22	2,100	2,800	180	370	<66	0.9	0.3	5	<1	--	11.1	LFP
B-3	04/27/2019	108.46	8.02	0.00	100.44	<19	--	160	--	<66	<0.2	<0.2	<0.4	<1	--	3.4	LFP
B-3	11/03/2019	108.46	8.25	0.00	100.21	1,500	1,400	90 J	84 J	<67	0.2 J	0.3 J	8	<1	--	8.2	LFP
B-3	05/06/2020	108.46	8.35	0.00	100.11	92.3 B J	273	79.5 J	--	104 J	<1.00	<1.00	<1.00	<3.00	--	<5.00	LFP
B-3	11/7/2020	108.46	7.51	0.00	100.95	807	1,280	122 B J	386	<250	0.240 J	<1.00	1.52	0.315 J	--	5.89	LFP
B-4	02/14/1991	107.68	--	--	--	33,000	--	<250	--	--	--	--	--	--	--	--	--
B-4	02/14/1992	107.68	6.82	0.00	100.86	--	--	--	--	--	--	--	--	--	--	--	--
B-4	02/18/1992	107.68	5.94	0.00	101.74	--	--	--	--	--	--	--	--	--	--	--	--
B-4	03/09/1992	107.68	6.62	0.00	101.06	--	--	--	--	--	--	--	--	--	--	--	--
B-4	03/13/1992	107.68	6.88	0.00	100.80	21,000	--	--	--	--	--	--	--	--	--	--	--
B-4	04/21/1992	107.68	6.57	0.00	101.11	--	--	--	--	--	--	--	--	--	--	--	--
B-4	03/03/1994	107.68	--	--	--	15,800	--	1,040	--	1,250	--	--	--	--	--	--	--
B-4	08/22/1995	107.68	7.92	0.00	99.76	22,000	--	840	--	820	--	--	--	--	--	--	--
B-4	11/28/1995	107.68	6.11	0.00	101.57	22,000	--	1,900	--	990	--	--	--	--	--	3.1	--
B-4	03/12/1996	107.68	6.85	0.00	100.83	11,000	--	3,200	--	2,500	--	--	--	--	--	4.7	--
B-4	06/26/1996	107.68	7.58	0.00	100.10	16,100	--	757	--	<750	--	--	--	--	--	2.83	--
B-4	10/09/1996	107.68	7.90	0.00	99.78	10,200	--	543	--	<750	--	--	--	--	--	4.13	--
B-4	02/12/1997	107.68	6.01	0.00	101.67	12,200	--	4,710	--	4,830	--	--	--	--	--	2.82	--
B-4	04/22/1997	107.68	10.10	0.00	97.58	15,500	--	5,840	--	1,191	--	--	--	--	--	4.18	--
B-4	08/05/1997	107.68	8.37	0.00	99.31	15,800	--	2,560	--	3,160	--	--	--	--	--	6.26	--
B-4	11/11/1997	107.68	7.67	0.00	100.01	31,100	--	2,080	--	1,040	--	--	--	--	--	4.75	--
B-4	02/11/1998	107.68	6.45	0.00	101.23	3,750	--	1,340	--	1,630	--	--	--	--	--	<2.0	--
B-4	05/28/1998	107.68	7.25	0.00	100.43	2,510	--	3,180	--	1,250	--	--	--	--	--	4.69	--
B-4	08/20/1998	107.68	9.12	0.00	98.56	7,240	--	1,460	--	1,240	--	--	--	--	--	1.17	--
B-4	11/19/1998	107.68	7.22	0.00	100.46	1,880	--	2,470	--	3,750	--	--	--	--	--	<1.0	--
B-4	03/11/1999	107.68	5.41	0.00	102.27	11,900	--	1,130	--	585	--	--	--	--	--	3.54	--
B-4	05/25/1999	107.68	7.45	0.00	100.23	5,380	--	<1,450	--	--	--	--	--	--	--	--	--
B-4	08/17/1999	107.68	8.06	0.00	99.62	2,700	--	670	--	868	--	--	--	--	--	2.3	--
B-4	11/19/1999	107.68	5.75	0.00	101.93	11,400	--	1,700	--	--	--	--	--	--	--	17.5	--
B-4	03/09/2000	107.68	6.34	0.00	101.34	105,000	--	<1,250	--	2,830	--	--	--	--	--	10.9	--
B-4	06/13/2000	107.68	6.80	0.00	100.88	8,810	--	<250	--	943	--	--	--	--	--	6.92	--
B-4	09/26/2000	107.68	8.31	0.00	99.37	--	--	<250	--	0.565	--	--	--	--	--	5	--
B-4	12/13/2000	107.68	7.54	0.00	100.14	--	--	1,250	--	<500	--	--	--	--	--	5.98	--
B-4	02/28/2001	107.68	7.24	0.00	100.44	12,100	--	<250	--	<500	--	--	--	--	--	5.34	--

Table 2. Historical Groundwater Gauging Data and Select Analytical Results  
 COWLITZ BP / COWLITZ Food and Fuel / Former Texaco Service Station No. 211556  
 101 Mulford Road  
 Toledo, Washington

Well	Date	TOC	DTW	NAPL	GWE	TPH-GRO	TPH-DRO	TPH-DRO w/Si gel	TPH-HRO	TPH-HRO w/Si gel	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Dissolved Lead	Comments
B-4	05/02/2001	107.68	6.59	0.00	101.09	<b>12,300</b>	--	<b>15,700</b>	--	<b>757</b>	--	--	--	--	--	5.75	
B-4	12/30/2003	107.68	6.07	0.00	101.61	<b>1,700</b>	--	<b>17,000</b>	--	<b>2,000</b>	<10	<5.0	310	370	--	7.5	
B-4	07/20/2004	107.68	8.23	0.00	99.45	<b>4,660</b>	--	<250	--	<500	<b>15.1</b>	1.3	42.3	10.1	--	--	
B-4	10/06/2004	107.68	7.45	0.00	100.23	<b>2,300</b>	--	390	--	180	--	--	--	--	--	--	
B-4	01/27/2005	107.68	6.72	0.00	100.96	<b>2,800</b>	--	200	--	<195	--	--	--	--	--	--	
B-4	04/12/2005	107.68	6.62	0.00	101.06	<b>2,600</b>	--	340	--	<100	--	--	--	--	--	--	
B-4	07/18/2005	107.68	6.62	0.00	101.06	<b>1,600</b>	--	<b>560</b>	--	<1,100	--	--	--	--	--	--	
B-4	10/21/2005	107.68	7.81	0.00	99.87	<b>1,800</b>	--	190	--	260	--	--	--	--	--	--	
B-4	09/04/2007	107.68	8.40	0.00	99.28	<b>3,200</b>	--	310	--	<100	--	--	--	--	--	1.8	
B-4-DUP	09/04/2007	107.68	8.40	0.00	99.28	<b>3,300</b>	--	340	--	140	--	--	--	--	--	1.7	
B-4	5/27-28/2008	107.68	7.52	0.00	100.16	<b>1,800</b>	--	310	--	330	3	3	25	7	<0.5	2.9	LFP
B-4	8/27-29/2008	107.68	7.88	0.00	99.80	<b>3,100</b>	--	330	--	<b>1,100</b>	1	0.9	22	4	<0.5	1.6	LFP
B-4	11/17-19/2008	107.68	6.26	0.00	101.42	<b>3,500</b>	--	<b>700</b>	--	<b>2,600</b>	1	0.7	27	3	<0.5	2.3	LFP
B-4	2/16-18/2009	107.68	7.40	0.00	100.28	<b>2,000</b>	--	440	--	480	0.6	<0.5	11	2	<0.5	2	LFP
B-4	5/4-6/2009	107.68	6.46	0.00	101.22	<b>2,100</b>	--	<b>590</b>	--	<b>1,300</b>	<0.5	<0.5	20	2	<0.5	1.6	LFP
B-4	8/19-21/2009	107.68	8.35	0.00	99.33	<b>910</b>	--	<b>590</b>	--	<b>810</b>	1	<0.5	5	1	<0.5	1.2	LFP
B-4	11/18-20/2009	107.68	5.30	0.00	102.38	<b>5,700</b>	--	490	--	450	3	0.7	36	3	<0.5	5.2	LFP
B-4	2/8-10/2010	107.68	6.78	0.00	100.90	350	--	400	--	<b>1,400</b>	<0.5	<0.5	4	<0.5	<0.5	0.46	LFP
B-4	5/12-13/2010	107.68	7.23	0.00	100.45	360	--	<b>940</b>	--	<b>7,100</b>	<0.5	<0.5	1	<0.5	<0.5	0.15	LFP
B-4	08/11/2010	107.68	8.00	0.00	99.68	170	--	<b>600</b>	--	<b>2,000</b>	<0.5	<0.5	1	<0.5	<0.5	0.26	LFP
B-4	11/3-4/2010	107.68	6.19	0.00	101.49	530	--	400	--	<b>1,500</b>	<0.5	<0.5	4	0.7	<0.5	1	LFP
B-4	2/3-4/2011	107.68	7.15	0.00	100.53	<b>2,200</b>	--	<b>1,400</b>	--	<b>4,700</b>	0.9	0.7	11	1	<0.5	2.9	LFP
B-4	05/24/2011	107.68	7.22	0.00	100.46	<b>840</b>	--	300	--	<b>680</b>	<0.5	<0.5	0.8	<0.5	<0.5	1.2	LFP
B-4	8/23-24/11	107.68	8.50	0.00	99.18	<b>1,400</b>	--	230	--	<68	<0.5	<0.5	1	0.6	<0.5	1.4	LFP
B-4	11/7-9/2011	107.68	8.15	0.00	99.53	<b>950</b>	--	120	--	360	<0.5	<0.5	1	0.5	<0.5	0.57	LFP
B-4	2/6-8/2012	107.68	6.80	0.00	100.88	320	--	64	--	120	<0.5	<0.5	2	<0.5	<0.5	1.6	LFP
B-4	5/2-4/2012	107.68	6.75	0.00	100.93	580	--	110	--	72	<0.5	<0.05	2	<0.5	<0.5	1.7	LFP
B-4	8/1-3/2012	107.68	8.26	0.00	99.42	510	--	100	--	190	<0.5	<0.5	<0.5	<0.5	<0.5	0.83	LFP
B-4	11/26-28/2012	107.68	6.34	0.00	101.34	<b>1,200</b>	--	320	--	210	<0.5	<0.5	8	0.7	<0.5	3.0	LFP
B-4	2/4-6/2013	107.68	6.95	0.00	100.73	<b>1,600</b>	--	150	--	<69	<0.5	<0.5	4	<0.5	<0.5	2.5	LFP
B-4	5/6-8/2013	107.68	7.53	0.00	100.15	<b>2,400</b>	--	140	--	<67	<0.5	<0.5	4	0.5	<0.5	2.4	LFP
B-4	9/9-13/2013	107.68	7.30	0.00	100.38	<b>1,200</b>	250	130	110	<66	<0.5	<0.5	3	0.5	<0.5	1.6	LFP
B-4	11/18-22/2013	107.68	6.76	0.00	100.92	<b>1,200</b>	150	120	<67	<67	<0.5	<0.5	3	<0.5	<0.5	1.9	LFP
B-4	2/4-11/2014	107.68	7.36	0.00	100.32	<b>1,800</b>	170	140	<68	<68	<0.5	<0.5	3	<0.5	<0.5	2.4	LFP
B-4	6/12-14/2014	107.68	7.94	0.00	99.74	<b>1,200</b>	260	120	73	<67	<0.5	<0.5	1	<0.5	<0.5	1.8	LFP
B-4	8/18-21/14	107.68	8.43	0.00	99.25	<b>1,800</b>	300	140	88	<67	<0.5	<0.5	1	0.5	<0.5	1.4	LFP
B-4	11/19-20/2014	107.68	6.77	0.00	100.91	<b>1,300</b>	270	120	<66	<66	<0.5	<0.5	2	<0.5	<0.5	2.4	LFP
B-4	2/17-20/2015	107.68	6.93	0.00	100.75	550	290	95	470	240	<0.5	<0.5	<0.5	<0.5	<0.5	0.73	LFP
B-4	5/11-15/2015	107.68	7.91	0.00	99.77	<b>940</b>	210	130	<66	<66	<0.5	<0.5	1	<0.5	<0.5	0.0016	LFP
B-4	8/10-11/2015	107.68	8.94	0.00	98.74	600	500	66	340	<66	<0.5	<0.5	<0.5	0.6	<0.5	0.89	LFP
B-4	11/16-18/2015	107.68	4.73	0.00	102.95	<b>2,000</b>	<b>750</b>	130	<b>740</b>	270	<0.5	<0.5	4	<0.5	<0.5	0.0171	LFP
B-4	5/13-14/2016	107.68	7.84	0.00	99.84	<b>2,100</b>	390	120	<b>550</b>	300	<0.5	<0.5	0.9	<0.5	--	0.81	LFP
B-4	11/14/2016	107.68	6.30	0.00	101.38	<b>1,200</b>	<b>1,000</b>	400	<b>1,000</b>	<b>610</b>	<0.5	<0.5	<0.5	<0.5	--	1.00	LFP
B-4	05/14/2017	107.68	6.65	0.00	101.03	<b>2,000</b>	<b>1,200</b>	<b>520</b>	<b>2,500</b>	<b>1,100</b>	<0.5	<0.5	<0.5	<0.5	--	12.8	LFP
B-4	11/11-12/2017	107.68	6.57	0.00	101.11	<b>3,600</b>	<b>650</b>	180	<b>700</b>	260	4	<0.5	1	<0.5	--	0.97	LFP
B-4	05/11/2018	107.68	7.39	0.00	100.29	<b>3,600</b>	<b>650</b>	180	<b>700</b>	260	4	<0.5	1	<0.5	--	0.97	LFP
B-4	11/11-12/2018	107.68	7.52	0.00	100.16	<b>1,600</b>	230	110	330	150	<0.2	<0.2	<0.4	<1	--	1.8	LFP
B-4	04/27/2019	107.68	7.31	0.00	100.37	<b>940</b>	--	90 J	--	<68	<0.2	<0.4	<1	--	--	6.9	LFP
B-4	11/03/2019	107.68	7.51	0.00	100.17	<b>1,500</b>	290	120	410	270	<0.2	<0.2	0.4 J	<1	--	<b>36.3</b>	LFP
B-4	05/06/2020	107.68	7.54	0.00	100.14	<b>1,800</b>	230	115 J	--	106 J	<1.00	<1.00	<1.00	<3.00	--	9.59	
B-4	11/7/2020	107.68	6.63	0.00	101.05	<b>1,360</b>	<b>1,490</b>	157 B J	<b>507</b>	<250	<1.00	<1.00	<1.00	<3.00	--	0.857 J	
MW-101	02/14/1992	99.51	6.94	--	92.57	<b>45,000</b>	--	<b>33,000</b>	--	--	--	--	--	--	--	--	
MW-101	02/18/1992	99.51	6.88	--	92.63	--	--	--	--	--	--	--	--	--	--	--	
MW-101	03/09/1992	99.51	6.76	--	92.75	--	--	--	--	--	--	--	--	--	--	--	
MW-101	03/13/1992	99.51	7.02	--	92.49	--	--	--	--	--	--	--	--	--	--	--	
MW-101	04/21/1992	99.51	7.73	--	91.78	--	--	--	--	--	--	--	--	--	--	--	
MW-101	03/03/1994	99.51	--	--	--	<b>73,000</b>	--	<b>1,730</b>	--	<750	--	--	--	--	--	--	
MW-101	08/22/1995	99.51	7.90	--	91.61	<b>12,000</b>	--	<b>1,300</b>	--	<750	--	--	--	--	--	--	
MW-101	11/28/1995	99.51	6.12	--	93.39	<b>49,000</b>	--	<b>1,400</b>	--	<750	--	--	--	--	--	<b>24</b>	
MW-101	03/12/1996	99.51	6.86	--	92.65	<b>43,000</b>	--	<b>760</b>	--	<750	--	--	--	--	--	9.3	
MW-101	06/26/1996	99.51	7.59	--	91.92	<b>22,000</b>	--	<b>656</b>	--	<750	--	--	--	--	--	8.22	
MW-101	10/09/1996	99.51	7.85	--	91.66	<b>5,800</b>	--	309	--	<750	--	--	--	--	--	4.24	
MW-101	02/12/1997	99.51	6.55	--	92.96	<b>33,900</b>	--	<b>1,090</b>	--	<750	--	--	--	--	--	7.04	

Table 2. Historical Groundwater Gauging Data and Select Analytical Results  
 COWLITZ BP / COWLITZ Food and Fuel / Former Texaco Service Station No. 211556  
 101 Mulford Road  
 Toledo, Washington



Well	Date	TOC	DTW	NAPL	GWE	TPH-GRO	TPH-DRO	TPH-DRO w/Si gel	TPH-HRO	TPH-HRO w/Si gel	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Dissolved Lead	Comments		
MW-101	04/22/1997	99.51	6.31	--	93.20	21,500	--	1,870	--	977	--	--	--	--	--	7.41			
MW-101	11/11/1997	99.51	6.76	--	92.75	23,400	--	952	--	<750	--	--	--	--	--	11.3			
MW-101	02/11/1998	99.51	6.78	--	92.73	28,400	--	793	--	<750	--	--	--	--	--	6.51			
MW-101	05/28/1998	99.51	6.91	--	92.60	11,900	--	798	--	<750	--	--	--	--	--	4.71			
MW-101	08/20/1998	99.51	8.30	--	91.21	4,400	--	414	--	<750	--	--	--	--	--	1.6			
MW-101	11/19/1998	99.51	7.69	--	91.82	5,820	--	714	--	<750	--	--	--	--	--	1.7			
MW-101	03/11/1999	99.51	6.17	--	93.34	38,500	--	1,200	--	<500	--	--	--	--	--	6.82			
MW-101	05/25/1999	99.51	7.47	--	92.04	18,000	--	1,450	--	--	--	--	--	--	--	--			
MW-101	08/17/1999	99.51	7.99	--	91.52	2,940	--	810	--	750	--	--	--	--	--	2.9			
MW-101	11/19/1999	99.51	5.84	--	93.67	16,300	--	1,010	--	--	--	--	--	--	--	15.4			
MW-101	03/09/2000	99.51	6.25	--	93.26	15,800	--	<250	--	<500	--	--	--	--	--	13			
MW-101	06/13/2000	99.51	6.98	--	92.53	4,870	--	<250	--	<500	--	--	--	--	--	4.3			
MW-101	09/26/2000	99.51	8.15	--	91.36	<500	--	--	--	<250	--	--	--	--	--	1.88			
MW-101	12/13/2000	99.51	7.65	--	91.86	<500	--	988	--	442	--	--	--	--	--	1.13			
MW-101	02/28/2001	99.51	7.25	--	92.26	2,710	--	<250	--	<500	--	--	--	--	--	2.45			
MW-101	05/02/2001	99.51	9.55	--	89.96	2,280	--	<250	--	<500	--	--	--	--	--	2.6			
MW-101	12/30/2003	99.54	6.04	0.00	93.50	<96	--	13,000	--	890	<5.0	0.6	260	290	--	27.9			
MW-101	07/20/2004	99.54	8.18	0.00	91.36	1,040	--	<250	--	<500	3.01	<0.500	0.822	1.21	--	<1.0			
MW-101	10/06/2004	99.51	7.54	0.00	91.97	<260	--	<81	--	<100	--	--	--	--	--	--			
MW-101	01/27/2005	99.51	6.78	0.00	92.73	2,900	--	190	--	<100	--	--	--	--	--	--			
MW-101	04/12/2005	99.51	6.32	0.00	93.19	1,700	--	160	--	<100	--	--	--	--	--	--			
MW-101	07/18/2005	99.51	7.78	0.00	91.73	240	--	93	--	<99	--	--	--	--	--	--			
MW-101	10/21/2005	99.51	7.75	0.00	91.76	470	--	110	--	<100	--	--	--	--	--	--			
MW-101	09/05/2007	99.51	8.22	0.00	91.29	200	--	110	--	140	--	--	--	--	--	1.2			
MW-101	5/27-28/2008	99.51	7.71	0.00	91.80	410	--	<80	--	<99	<0.5	<0.5	0.5	<0.5	<0.5	1.2	LFP		
MW-101	8/27-29/2008	99.51	7.75	0.00	91.76	450	--	<79	--	<99	<0.5	<0.5	<0.5	<0.5	<0.5	0.39	LFP		
MW-101	11/17-19/2008	99.51	6.33	0.00	93.18	520	--	74	--	<68	<0.5	<0.5	1	<0.5	<0.5	1.1	LFP		
MW-101	2/16-18/2009	99.51	7.43	0.00	92.08	590	--	68	--	<67	<0.5	<0.5	<0.5	<0.5	<0.5	0.96	LFP		
MW-101	5/4-6/2009	99.51	6.93	0.00	92.58	370	--	66	--	<68	<0.5	<0.5	<0.5	<0.5	<0.5	0.39	LFP		
MW-101	8/19-21/2009	99.51	8.16	0.00	91.35	510	--	65	--	<70	<0.5	<0.5	<0.5	<0.5	<0.5	0.22	LFP		
MW-101	11/18-20/2009	99.51	4.97	0.00	94.54	84	--	42	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	1	LFP		
MW-101	2/8-10/2010	99.51	6.82	0.00	92.69	970	--	130	--	190	<0.5	<0.5	1	<0.5	<0.5	2.1	LFP		
MW-101	5/12-13/2010	99.51	7.32	0.00	92.19	470	--	64	--	<70	<0.5	<0.5	<0.5	<0.5	<0.5	0.65	LFP		
MW-101	08/12/2010	99.51	7.96	0.00	91.55	370	--	52	--	<68	<0.5	<0.5	<0.5	<0.5	<0.5	0.24	LFP		
MW-101							NOT PART OF MONITORING/SAMPLING PROGRAM												
MW-102	02/14/1992	--	6.94	0.00	--	--	--	--	--	--	--	--	--	--	--	--			
MW-102	02/18/1992	--	6.88	0.00	--	--	--	--	--	--	--	--	--	--	--	--			
MW-102	03/09/1992	--	6.76	0.00	--	--	--	--	--	--	--	--	--	--	--	--			
MW-102	03/13/1992	--	7.02	0.00	--	150	--	--	--	--	--	--	--	--	--	--			
MW-102	04/21/1992	--	7.72	0.00	--	--	--	--	--	--	--	--	--	--	--	--			
MW-102							NOT PART OF MONITORING/SAMPLING PROGRAM												
MW-104	02/14/1992	100.45	8.86	0.00	91.59	--	--	--	--	--	--	--	--	--	--	--			
MW-104	02/18/1992	100.45	8.84	0.00	91.61	--	--	--	--	--	--	--	--	--	--	--			
MW-104	03/09/1992	100.45	8.73	0.00	91.72	--	--	--	--	--	--	--	--	--	--	--			
MW-104	03/13/1992	100.45	8.84	0.00	91.61	<50	--	--	--	--	--	--	--	--	--	--			
MW-104	04/21/1992	100.45	8.72	0.00	91.73	--	--	--	--	--	--	--	--	--	--	--			
MW-104	08/22/1995	100.45	9.30	0.00	91.15	<50	--	<250	--	<750	--	--	--	--	--	--			
MW-104	11/27/1995	100.45	8.39	0.00	92.06	--	--	--	--	--	--	--	--	--	--	--			
MW-104	03/12/1996	100.45	8.78	0.00	91.67	--	--	--	--	--	--	--	--	--	--	--			
MW-104	06/27/1996	100.45	9.00	0.00	91.45	--	--	--	--	--	--	--	--	--	--	--			
MW-104	10/10/1996	100.45	9.18	0.00	91.27	--	--	--	--	--	--	--	--	--	--	--			
MW-104	02/12/1997	100.45	8.65	0.00	91.80	<50	--	<250	--	<750	--	--	--	--	--	<2.0			
MW-104	04/22/1997	100.45	8.50	0.00	91.95	<50	--	<250	--	<750	--	--	--	--	--	<2.0			
MW-104	08/05/1997	100.45	9.20	0.00	91.25	<50	--	<250	--	<750	--	--	--	--	--	<2.0			
MW-104	11/11/1997	100.45	8.81	0.00	91.64	<50	--	<250	--	<750	--	--	--	--	--	<2.0			
MW-104	02/11/1998	100.45	8.83	0.00	91.62	<50	--	<250	--	<750	--	--	--	--	--	<2.0			
MW-104	05/28/1998	100.45	8.97	0.00	91.48	<50	--	<250	--	<750	--	--	--	--	--	9.54			
MW-104	08/20/1998	100.45	9.51	0.00	90.94	<50	--	<250	--	<750	--	--	--	--	--	<1.0			
MW-104	11/19/1998	100.45	9.82	0.00	90.63	<50	--	<250	--	<750	--	--	--	--	--	<1.0			
MW-104	03/11/1999	100.45	8.48	0.00	91.97	<80	--	<250	--	<500	--	--	--	--	--	<1.0			
MW-104	05/25/1999	100.45	8.96	0.00	91.49	<80	--	<250	--	--	--	--	--	--	--	--			
MW-104	08/17/1999	100.45	9.24	0.00	91.21	<80	--	<250	--	<500	--	--	--	--	--	<1.0			

Table 2. Historical Groundwater Gauging Data and Select Analytical Results  
 COWLITZ BP / COWLITZ Food and Fuel / Former Texaco Service Station No. 211556  
 101 Mulford Road  
 Toledo, Washington

Well	Date	TOC	DTW	NAPL	GWE	TPH-GRO	TPH-DRO	TPH-DRO w/Si gel	TPH-HRO	TPH-HRO w/Si gel	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Dissolved Lead	Comments
MW-104	11/19/1999	100.45	8.40	0.00	92.05	<80	--	<250	--	--	--	--	--	--	--	1.0	
MW-104	03/09/2000	100.45	8.49	0.00	91.96	<80	--	<250	--	<50	--	--	--	--	--	<1.0	
MW-104	06/13/2000	100.45	8.89	0.00	91.56	<80	--	<250	--	<500	--	--	--	--	--	<1.0	
MW-104	09/26/2000	100.45	9.32	0.00	91.13	--	--	<250	--	<500	--	--	--	--	--	<1.0	
MW-104	12/13/2000	100.45	9.09	0.00	91.36	--	--	<250	--	<500	--	--	--	--	--	<1.0	
MW-104	02/28/2001	100.45	8.89	0.00	91.56	<80	--	<250	--	<500	--	--	--	--	--	<1.0	
MW-104	05/02/2001	100.45	8.79	0.00	91.66	103	--	<250	--	<500	--	--	--	--	--	<1.0	
MW-104	10/31/2003	100.44	9.15	0.00	91.29	<50	--	<250	--	<500	<0.500	<0.500	<0.500	<1.00	--	<1.0	
MW-104	12/30/2003	100.44	8.39	0.00	92.05	<96	--	<50	--	<77	<0.5	<0.5	<0.5	<1.5	--	<1.2	
MW-104	10/07/2004	100.45	9.09	0.00	91.36	<50	--	<83	--	<100	--	--	--	--	--	--	
MW-104	10/20/2005	100.45	9.19	0.00	91.26	<48	--	<82	--	<100	--	--	--	--	--	--	
MW-104	09/06/2007	100.45	9.42	0.00	91.03	<50	--	<79	--	<98	--	--	--	--	--	0.087	
MW-104	8/27-29/2008	100.45	9.23	0.00	91.22	<50	--	<79	--	<99	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP
MW-104	11/17-19/2008	100.46	8.75	0.00	91.71	<50	--	<30	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP
MW-104	2/16-18/2009	100.46	9.01	0.00	91.45	<50	--	<29	--	<68	<0.5	<0.5	<0.5	<0.5	<0.5	0.1	LFP
MW-104	5/4-6/2009	100.46	8.88	0.00	91.58	<50	--	38	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP
MW-104	8/19-21/2009	100.46	9.32	0.00	91.14	<50	--	<29	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	0.057	LFP
MW-104	11/18-20/2009	100.46	8.08	0.00	92.38	98	--	<29	--	<68	<0.5	<0.5	<0.5	<0.5	<0.5	0.11	LFP
MW-104	2/8-10/2010	100.46	8.76	0.00	91.70	<50	--	<29	--	<68	<0.5	<0.5	<0.5	<0.5	<0.5	0.053	LFP
MW-104																	MONITORING WELL DECOMMISSIONED/SAMPLING DISCONTINUED
MW-105	02/14/1992	96.14	3.36	0.00	92.78	--	--	--	--	--	--	--	--	--	--	--	
MW-105	02/18/1992	96.14	3.34	0.00	92.80	--	--	--	--	--	--	--	--	--	--	--	
MW-105	03/09/1992	96.14	3.25	0.00	92.89	--	--	--	--	--	--	--	--	--	--	--	
MW-105	03/13/1992	96.14	3.60	0.00	92.54	<50	--	--	--	--	--	--	--	--	--	--	
MW-105	04/21/1992	96.14	3.40	0.00	92.74	--	--	--	--	--	--	--	--	--	--	--	
MW-105	08/22/1995	96.14	5.08	0.00	91.06	<50	--	<250	--	900	--	--	--	--	--	--	
MW-105	11/28/1995	96.14	2.53	0.00	93.61	--	--	--	--	--	--	--	--	--	--	--	
MW-105	03/12/1996	96.14	3.37	0.00	92.77	--	--	--	--	--	--	--	--	--	--	--	
MW-105	06/26/1996	96.14	4.74	0.00	91.40	--	--	--	--	--	--	--	--	--	--	--	
MW-105	10/09/1996	96.14	4.93	0.00	91.21	--	--	--	--	--	--	--	--	--	--	--	
MW-105	02/12/1997	96.14	3.19	0.00	92.95	<50	--	<250	--	<750	--	--	--	--	--	2	
MW-105	04/22/1997	96.14	3.08	0.00	93.06	<50	--	<250	--	<750	--	--	--	--	--	2	
MW-105	08/05/1997	96.14	4.85	0.00	91.29	<50	--	<250	--	<750	--	--	--	--	--	2	
MW-105	11/11/1997	96.14	3.11	0.00	93.03	<50	--	<250	--	<750	--	--	--	--	--	2	
MW-105	02/11/1998	96.14	3.24	0.00	92.90	<50	--	<250	--	<750	--	--	--	--	--	2	
MW-105	05/28/1998	96.14	3.91	0.00	92.23	<50	--	<250	--	<750	--	--	--	--	--	6.62	
MW-105	08/20/1998	96.14	5.28	0.00	90.86	<50	--	<250	--	<750	--	--	--	--	--	<1.00	
MW-105	11/19/1998	96.14	5.37	0.00	90.77	<50	--	<250	--	<750	--	--	--	--	--	<1.00	
MW-105	03/11/1999	96.14	2.43	0.00	93.71	<80	--	<250	--	<500	--	--	--	--	--	<1.00	
MW-105	05/25/1999	96.14	4.29	0.00	91.85	<80	--	<250	--	--	--	--	--	--	--	--	
MW-105	08/17/1999	96.14	5.06	0.00	91.08	<80	--	<250	--	<500	--	--	--	--	--	<1.00	
MW-105	11/19/1999	96.14	3.08	0.00	93.06	<80	--	<250	--	--	--	--	--	--	--	<1.00	
MW-105	03/09/2000	96.14	2.75	0.00	93.39	<80	--	<250	--	<500	--	--	--	--	--	<1.00	
MW-105	06/13/2000	96.14	4.45	0.00	91.69	<80	--	<250	--	<500	--	--	--	--	--	<1.00	
MW-105	09/26/2000	96.14	5.20	0.00	90.94	--	--	<250	--	<500	--	--	--	--	--	<1.00	
MW-105	12/13/2000	96.14	4.67	0.00	91.47	--	--	<250	--	<500	--	--	--	--	--	1.37	
MW-105	02/28/2001	96.14	3.92	0.00	92.22	<80	--	<250	--	<500	--	--	--	--	--	<1.00	
MW-105	05/02/2001	96.14	3.53	0.00	92.61	87	--	<250	--	<750	--	--	--	--	--	<1.00	
MW-105	12/31/2003	96.15	2.45	0.00	93.70	<500	--	<50	--	<400	<0.5	<0.5	<1.5	--	--	<1.2	
MW-105	10/07/2004	96.14	4.71	0.00	91.43	<50	--	<160	--	<200	--	--	--	--	--	--	
MW-105	10/20/2005	96.14	5.16	0.00	90.98	<48	--	<82	--	<100	--	--	--	--	--	--	
MW-105	09/06/2007	96.14	5.34	0.00	90.80	<50	--	<100	--	<81	--	--	--	--	--	0.47	
MW-105	8/27-29/2008	96.14	5.16	0.00	90.98	<50	--	<81	--	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP
MW-105	11/17-19/2008	96.14	3.75	0.00	92.39	<50	--	<30	--	<70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP
MW-105	2/16-18/2009	96.14	6.15	0.00	89.99	<50	--	<29	--	<68	<0.5	<0.5	<0.5	<0.5	<0.5	0.57	LFP
MW-105	5/4-6/2009	96.14	3.68	0.00	92.46	<50	--	<29	--	<67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP
MW-105	8/19-21/2009	96.14	5.25	0.00	90.89	<50	--	<30	--	<70	<0.5	<0.5	<0.5	<0.5	<0.5	0.064	LFP
MW-105	11/18-20/2009	96.14	1.56	0.00	94.58	<50	--	<29	--	<68	<0.5	<0.5	<0.5	<0.5	<0.5	0.053	LFP
MW-105	2/8-10/2010	96.14	3.37	0.00	92.77	<50	--	<29	--	<68	<0.5	<0.5	<0.5	<0.5	<0.5	0.078	LFP
MW-105																	MONITORING WELL DECOMMISSIONED/SAMPLING DISCONTINUED
MW-106	02/14/1992	99.71	8.18	0.00	91.53	--	--	--	--	--	--	--	--	--	--	--	
MW-106	02/18/1992	99.71	8.20	0.00	91.51	--	--	--	--	--	--	--	--	--	--	--	

Table 2. Historical Groundwater Gauging Data and Select Analytical Results  
 COWLITZ BP / COWLITZ Food and Fuel / Former Texaco Service Station No. 211556  
 101 Mulford Road  
 Toledo, Washington

Well	Date	TOC	DTW	NAPL	GWE	TPH-GRO	TPH-DRO	TPH-DRO w/Si gel	TPH-HRO	TPH-HRO w/Si gel	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Dissolved Lead	Comments
MW-106	03/09/1992	99.71	8.04	0.00	91.67	--	--	--	--	--	--	--	--	--	--	--	
MW-106	03/13/1992	99.71	8.18	0.00	91.53	<50	--	--	--	--	--	--	--	--	--	--	
MW-106	04/21/1992	99.71	8.02	0.00	91.69	--	--	--	--	--	--	--	--	--	--	--	
MW-106	08/22/1995	99.71	8.79	0.00	90.92	<50	--	<250	--	<750	--	--	--	--	--	--	
MW-106	11/28/1995	99.71	7.63	0.00	92.08	--	--	--	--	--	--	--	--	--	--	--	
MW-106	03/12/1996	99.71	8.04	0.00	91.67	<50	--	<250	--	<750	--	--	--	--	--	<2.0	
MW-106	06/26/1996	99.71	8.61	0.00	91.10	<50	--	<250	--	<750	--	--	--	--	--	<2.0	
MW-106	10/09/1996	99.71	8.65	0.00	91.06	<50	--	<250	--	<750	--	--	--	--	--	2.16	
MW-106	02/12/1997	99.71	7.95	0.00	91.76	<50	--	<250	--	<750	--	--	--	--	--	<2.0	
MW-106	04/22/1997	99.71	7.73	0.00	91.98	<50	--	<250	--	<750	--	--	--	--	--	<2.0	
MW-106	08/05/1997	99.71	8.68	0.00	91.03	<50	--	<250	--	<750	--	--	--	--	--	<2.0	
MW-106	11/11/1997	99.71	8.07	0.00	91.64	<50	--	<250	--	<750	--	--	--	--	--	<2.0	
MW-106	02/11/1998	99.71	8.12	0.00	91.59	<50	--	<250	--	<750	--	--	--	--	--	<2.0	
MW-106	05/28/1998	99.71	8.35	0.00	91.36	<50	--	<250	--	<750	--	--	--	--	--	4.53	
MW-106	08/20/1998	99.71	8.96	0.00	90.75	<50	--	<250	--	<750	--	--	--	--	--	<1.0	
MW-106	11/19/1998	99.71	9.37	0.00	90.34	<50	--	<250	--	<750	--	--	--	--	--	<1.0	
MW-106	03/11/1999	99.71	7.70	0.00	92.01	<80	--	<250	--	<50	--	--	--	--	--	1.1	
MW-106	05/25/1999	99.71	8.32	0.00	91.39	<80	--	<250	--	--	--	--	--	--	--	--	
MW-106	08/17/1999	99.71	8.70	0.00	91.01	<80	--	<250	--	<500	--	--	--	--	--	<1.0	
MW-106	11/19/1999	99.71	7.88	0.00	91.83	<80	--	<250	--	--	--	--	--	--	--	<1.0	
MW-106	03/09/2000	99.71	7.74	0.00	91.97	<80	--	<250	--	<500	--	--	--	--	--	<1.0	
MW-106	06/13/2000	99.71	8.39	0.00	91.32	<80	--	<250	--	<500	--	--	--	--	--	<1.0	
MW-106	09/26/2000	99.71	8.79	0.00	90.92	--	--	<250	--	<500	--	--	--	--	--	<1.0	
MW-106	12/13/2000	99.71	8.51	0.00	91.20	--	--	<250	--	<500	--	--	--	--	--	<1.0	
MW-106	02/28/2001	99.71	8.18	0.00	91.53	<80	--	<250	--	<500	--	--	--	--	--	<2.0	
MW-106	05/02/2001	99.71	8.17	0.00	91.54	88	--	<250	--	<500	--	--	--	--	--	<1.0	
MW-106	10/30/2002	99.73	8.98	0.00	90.75	<80	--	<250	--	<500	<0.500	<0.500	<0.500	<1.00	--	<1.0	
MW-106	10/31/2003	99.73	8.52	0.00	91.21	<50	--	<250	--	<500	<0.500	<0.500	<0.500	<1.00	--	<1.0	
MW-106	12/31/2003	99.73	7.54	0.00	92.19	<98	--	<50	--	<78	<0.5	<0.5	<0.5	<1.5	--	<1.2	
MW-106	10/07/2004	99.71	8.50	0.00	91.21	<50	--	<78	--	<97	--	--	--	--	--	--	
MW-106	10/20/2005	99.71	8.70	0.00	91.01	<48	--	<82	--	<100	--	--	--	--	--	--	
MW-106	09/06/2007	99.71	8.88	0.00	90.83	<50	--	<80	--	<100	--	--	--	--	--	0.13	
MW-106	8/27-29/2008	99.71	8.72	0.00	90.99	<50	--	<79	--	<99	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP
MW-106	11/17-19/2008	99.71	8.18	0.00	91.53	<50	--	30	--	<70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP
MW-106	2/16-18/2009	99.71	8.40	0.00	91.31	<50	--	<29	--	<67	<0.5	<0.5	<0.5	<0.5	<0.5	0.072	LFP
MW-106	5/4-6/2009	99.71	8.30	0.00	91.41	<50	--	<29	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP
MW-106	8/19-21/2009	99.71	8.65	0.00	91.06	<50	--	<30	--	<70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP
MW-106	11/18-20/2009	99.71	7.40	0.00	92.31	<50	--	<29	--	<68	<0.5	<0.5	<0.5	<0.5	<0.5	0.11	LFP
MW-106	2/8-10/2010	99.71	8.05	0.00	91.66	<50	--	<29	--	<68	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP
MW-106																	MONITORING WELL DECOMMISSIONED/SAMPLING DISCONTINUED
MW-107	02/14/1992	100.00	8.50	0.00	91.50	--	--	--	--	--	--	--	--	--	--	--	
MW-107	02/18/1992	100.00	8.50	0.00	91.50	--	--	--	--	--	--	--	--	--	--	--	
MW-107	03/09/1992	100.00	8.36	0.00	91.64	--	--	--	--	--	--	--	--	--	--	--	
MW-107	03/13/1992	100.00	8.52	0.00	91.48	<50	--	--	--	--	--	--	--	--	--	--	
MW-107	04/21/1992	100.00	8.36	0.00	91.64	--	--	--	--	--	--	--	--	--	--	--	
MW-107	08/22/1995	100.00	9.06	0.00	90.94	<50	--	<250	--	<750	--	--	--	--	--	--	
MW-107	11/28/1995	100.00	8.00	0.00	92.00	--	--	--	--	--	--	--	--	--	--	--	
MW-107	03/12/1996	100.00	8.36	0.00	91.64	--	--	--	--	--	--	--	--	--	--	--	
MW-107	06/26/1996	100.00	8.89	0.00	91.11	--	--	--	--	--	--	--	--	--	--	--	
MW-107	10/09/1996	100.00	8.94	0.00	91.06	--	--	--	--	--	--	--	--	--	--	--	
MW-107	02/12/1997	100.00	8.25	0.00	91.75	<50	--	<250	--	<750	--	--	--	--	--	<2.0	
MW-107	04/22/1997	100.00	8.05	0.00	91.95	<50	--	<250	--	<750	--	--	--	--	--	<2.0	
MW-107	08/05/1997	100.00	8.95	0.00	91.05	<50	--	<250	--	<809	--	--	--	--	--	<2.0	
MW-107	11/11/1997	100.00	8.37	0.00	91.63	<50	--	<250	--	750	--	--	--	--	--	<2.0	
MW-107	02/11/1998	100.00	8.44	0.00	91.56	<50	--	351	--	750	--	--	--	--	--	<2.0	
MW-107	05/28/1998	100.00	8.73	0.00	91.27	<50	--	<250	--	754	--	--	--	--	--	--	
MW-107	08/20/1998	100.00	9.24	0.00	90.76	<50	--	<250	--	750	--	--	--	--	--	1	
MW-107	11/19/1998	100.00	9.65	0.00	90.35	<50	--	<250	--	750	--	--	--	--	--	<1.0	
MW-107	03/11/1999	100.00	8.08	0.00	91.92	<80	--	539	--	750	--	--	--	--	--	<1.0	
MW-107	05/25/1999	100.00	8.82	0.00	91.18	<80	--	<250	--	<500	--	--	--	--	--	--	
MW-107	08/17/1999	100.00	8.10	0.00	91.90	<80	--	<250	--	--	--	--	--	--	--	<1.0	
MW-107	11/19/1999	100.00	8.21	0.00	91.79	<80	--	<250	--	<500	--	--	--	--	--	<1.0	
MW-107	03/09/2000	100.00	8.08	0.00	91.92	<80	--	<250	--	--	--	--	--	--	--	<1.0	

Table 2. Historical Groundwater Gauging Data and Select Analytical Results  
 COWLITZ BP / COWLITZ Food and Fuel / Former Texaco Service Station No. 211556  
 101 Mulford Road  
 Toledo, Washington

Well	Date	TOC	DTW	NAPL	GWE	TPH-GRO	TPH-DRO	TPH-DRO w/Si gel	TPH-HRO	TPH-HRO w/Si gel	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Dissolved Lead	Comments
MW-107	06/13/2000	100.00	8.88	0.00	91.12	<80	--	<250	--	<500	--	--	--	--	--	<1.0	
MW-107	09/26/2000	100.00	9.07	0.00	90.93	--	--	<250	--	<500	--	--	--	--	--	<1.0	
MW-107	12/13/2000	100.00	8.78	0.00	91.22	--	--	<250	--	<500	--	--	--	--	--	<1.0	
MW-107	02/28/2001	100.00	8.63	0.00	91.37	<80	--	<250	--	<500	--	--	--	--	--	<1.0	
MW-107	05/02/2001	100.00	8.63	0.00	91.37	88	--	<250	--	<500	--	--	--	--	--	<1.0	
MW-107	12/31/2003	100.00	7.92	0.00	92.08	150	--	<50	--	85	<0.5	<0.5	<0.5	<1.5	--	<1.2	
MW-107	10/07/2004	100.00	8.78	0.00	91.22	<50	--	<80	--	<100	--	--	--	--	--	--	
MW-107	10/20/2005	100.00	8.97	0.00	91.03	<48	--	<81	--	<100	--	--	--	--	--	--	
MW-107	09/06/2007	100.00	9.18	0.00	90.82	<50	--	<78	--	<98	--	--	--	--	--	0.07	
MW-107	8/27-29/2008	100.00	8.98	0.00	91.02	<50	--	<79	--	<99	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP
MW-107	11/17-19/2008	100.00	8.46	0.00	91.54	<50	--	<38	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP
MW-107	2/16-18/2009	100.00	8.62	0.00	91.38	<50	--	35	--	70	<0.5	<0.5	<0.5	<0.5	<0.5	0.068	LFP
MW-107	5/4-6/2009	100.00	8.95	0.00	91.05	<50	--	<30	--	<70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP
MW-107	8/19-21/2009	100.00	9.11	0.00	90.89	<50	--	<30	--	<70	<0.5	<0.5	<0.5	<0.5	<0.5	0.27	LFP
MW-107	11/18-20/2009	100.00	7.77	0.00	92.23	<50	--	99	--	<70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP
MW-107	2/8-10/2010	100.00	8.25	0.00	91.75	<50	--	<30	--	<70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP
MW-107																	MONITORING WELL DECOMMISSIONED/SAMPLING DISCONTINUED
MW-108	02/14/1992	99.79	8.10	0.00	91.69	--	--	--	--	--	--	--	--	--	--	--	
MW-108	02/18/1992	99.79	8.62	0.00	91.17	--	--	--	--	--	--	--	--	--	--	--	
MW-108	03/09/1992	99.79	8.49	0.00	91.30	--	--	--	--	--	--	--	--	--	--	--	
MW-108	03/13/1992	99.79	8.63	0.00	91.16	<50	--	--	--	--	--	--	--	--	--	--	
MW-108	04/21/1992	99.79	8.47	0.00	91.32	--	--	--	--	--	--	--	--	--	--	--	
MW-108	08/22/1995	99.79	9.04	0.00	90.75	<50	--	<250	--	<750	--	--	--	--	--	--	
MW-108	11/28/1995	99.79	7.98	0.00	91.81	--	--	--	--	--	--	--	--	--	--	--	
MW-108	03/12/1996	99.79	8.50	0.00	91.29	--	--	--	--	--	--	--	--	--	--	--	
MW-108	06/26/1996	99.79	8.86	0.00	90.93	--	--	--	--	--	--	--	--	--	--	--	
MW-108	10/09/1996	99.79	8.91	0.00	90.88	--	--	--	--	--	--	--	--	--	--	--	
MW-108	04/22/1997	99.79	8.08	0.00	91.71	<50	--	<250	--	<750	--	--	--	--	--	<2.0	
MW-108	08/05/1997	99.79	8.94	0.00	90.85	<50	--	<250	--	825	--	--	--	--	--	<2.0	
MW-108	11/11/1997	99.79	8.53	0.00	91.26	<50	--	<250	--	<750	--	--	--	--	--	<2.0	
MW-108	02/11/1998	99.79	8.59	0.00	91.20	<50	--	<250	--	873	--	--	--	--	--	<2.0	
MW-108	05/28/1998	99.79	8.72	0.00	91.07	<50	--	<250	--	<750	--	--	--	--	--	4.27	
MW-108	08/20/1998	99.79	9.20	0.00	90.59	<50	--	<250	--	<750	--	--	--	--	--	<1.0	
MW-108	11/19/1998	99.79	9.60	0.00	90.19	<50	--	<250	--	<750	--	--	--	--	--	<1.0	
MW-108	03/11/1999	99.79	8.16	0.00	91.63	<80	--	<250	--	<500	--	--	--	--	--	<1.0	
MW-108	05/25/1999	99.79	8.69	0.00	91.10	<80	--	<250	--	--	--	--	--	--	--	--	
MW-108	08/17/1999	99.79	8.96	0.00	90.83	<80	--	<250	--	<500	--	--	--	--	--	<1.0	
MW-108	11/19/1999	99.79	8.08	0.00	91.71	<80	--	<250	--	--	--	--	--	--	--	<1.0	
MW-108	03/09/2000	99.79	8.16	0.00	91.63	<80	--	<250	--	<500	--	--	--	--	--	<1.0	
MW-108	06/13/2000	99.79	8.69	0.00	91.10	<80	--	<250	--	<500	--	--	--	--	--	<1.0	
MW-108	09/26/2000	99.79	9.04	0.00	90.75	--	--	<250	--	<500	--	--	--	--	--	<1.0	
MW-108	12/13/2000	99.79	8.81	0.00	90.98	--	--	<250	--	<500	--	--	--	--	--	<1.0	



Table 2. Historical Groundwater Gauging Data and Select Analytical Results  
 COWLITZ BP / COWLITZ Food and Fuel / Former Texaco Service Station No. 211556  
 101 Mulford Road  
 Toledo, Washington

Well	Date	TOC	DTW	NAPL	GWE	TPH-GRO	TPH-DRO	TPH-DRO w/Si gel	TPH-HRO	TPH-HRO w/Si gel	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Dissolved Lead	Comments
MW-108	02/28/2001	99.79	8.60	0.00	91.19	<80	--	<250	--	<500	--	--	--	--	--	<1.0	
MW-108	05/02/2001	99.79	8.53	0.00	91.26	<80	--	<250	--	<500	--	--	--	--	--	<1.0	
MW-108	10/30/2002	99.79	9.24	0.00	90.55	<80	--	<250	--	<500	<0.500	<0.500	<0.500	<1.0	--	<1.0	
MW-108	10/31/2003	99.79	8.82	0.00	90.97	<50.0	--	<250	--	<500	<0.500	<0.500	<0.500	<1.0	--	<1.0	
MW-108	12/31/2003	99.79	7.95	0.00	91.84	<97	--	<50	--	<77	<0.5	<0.5	<0.5	<1.5	--	<1.2	
MW-108	10/07/2004	99.79	8.80	0.00	90.99	<50	--	<80	--	<100	--	--	--	--	--	--	
MW-108	10/20/2005	99.79	8.89	0.00	90.90	<48	--	<81	--	<100	--	--	--	--	--	--	
MW-108	10/20/2005 (D)	99.79	8.89	0.00	90.90	<48	--	<81	--	<100	--	--	--	--	--	--	
MW-108	09/06/2007	99.79	9.15	0.00	90.64	<50	--	<80	--	<100	--	--	--	--	--	0.12	
MW-108	8/27-29/2008	99.79	9.00	0.00	90.79	<50	--	<78	--	<98	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP
MW-108	11/17-19/2008	99.79	8.48	0.00	91.31	<50	--	<30	--	<70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP
MW-108	2/16-18/2009	99.79	8.74	0.00	91.05	<50	--	1,100	--	230	<0.5	<0.5	<0.5	<0.5	<0.5	0.070	LFP
MW-108	5/4-6/2009	99.79	8.62	0.00	91.17	<50	--	<29	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP
MW-108	8/19-21/2009	99.79	9.07	0.00	90.72	<50	--	<30	--	<69	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP
MW-108	11/18-20/2009	99.79	7.64	0.00	92.15	<50	--	<29	--	<68	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP
MW-108	2/8-10/2010	99.79	8.50	0.00	91.29	<50	--	<29	--	<68	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	LFP
MW-108																	MONITORING WELL DECOMMISSIONED/SAMPLING DISCONTINUED
QA	07/11/2003	--	--	--	--	<50	--	--	--	--	<0.500	<0.500	<0.500	<1.00	--	--	
QA	10/31/2003	--	--	--	--	<50	--	--	--	--	<0.500	<0.500	<0.500	<1.00	--	--	
QA	12/31/2003	--	--	--	--	--	--	<50	--	--	<0.5	<0.5	<0.5	<1.5	--	--	
QA	5/3/2004 <sup>g</sup>	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
QA	07/20/2004	--	--	--	--	<50	--	--	--	--	<0.500	<0.500	<0.500	<1.00	--	--	
QA	5/27-28/2008	--	--	--	--	<50	--	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	
QA	8/27-29/2008	--	--	--	--	<50	--	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	
QA	11/17-19/2008	--	--	--	--	<50	--	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	
QA	2/16-18/2009	--	--	--	--	<50	--	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	
QA	5/4-6/2009	--	--	--	--	<50	--	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	
QA	8/19-21/2009	--	--	--	--	<50	--	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	
QA	11/18-20/2009	--	--	--	--	<50	--	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	
QA	2/8-10/2010	--	--	--	--	<50	--	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	
QA	5/12-13/2010	--	--	--	--	<50	--	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	
QA	08/11/2010	--	--	--	--	<50	--	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	
QA	11/3-4/2010	--	--	--	--	<50	--	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	
QA	2/3-4/2011	--	--	--	--	<50	--	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	
QA	05/23/2011	--	--	--	--	<50	--	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	
QA	8/23-24/11	--	--	--	--	<50	--	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	
QA	11/7-9/2011	--	--	--	--	<50	--	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	
QA	2/6-8/2012	--	--	--	--	<50	--	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	
QA	5/2-4/2012	--	--	--	--	<50	--	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	
QA	8/1-3/2012	--	--	--	--	<50	--	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	
QA	11/26-28/2012	--	--	--	--	<50	--	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	
QA	2/4-6/2013	--	--	--	--	<50	--	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	
QA	5/6-8/2013	--	--	--	--	<50	--	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	
QA	9/9-13/2013	--	--	--	--	<50	--	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	
QA	11/18-22/2013	--	--	--	--	<50	--	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	
QA	2/4-11/2014	--	--	--	--	<50	--	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	
QA	6/12-14/2014	--	--	--	--	<50	--	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	
QA	8/18-21/2014	--	--	--	--	<50	--	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	
QA	11/19-20/2014	--	--	--	--	<50	--	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	
QA	2/17-20/2014	--	--	--	--	<50	--	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	
QA	5/11-15/2015	--	--	--	--	<50	--	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	
QA	8/10-11/2015	--	--	--	--	<50	--	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	
QA	11/16-18/2015	--	--	--	--	<50	--	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	
QA	5/13-14/2016	--	--	--	--	<50	--	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	
QA	11/14/2016	--	--	--	--	<50	--	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	
QA	05/14/2017	--	--	--	--	<50	--	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	
QA	11/11-12/2017	--	--	--	--	<50	--	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	
QA	05/11/2018	--	--	--	--	<50	--	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	
QA	11/11-12/2018	--	--	--	--	<19	--	--	--	--	<0.2	<0.2	<0.4	<1	--	--	
QA	04/27/2019	--	--	--	--	<19	--	--	--	--	<0.2	<0.2	<0.4	<1	--	--	
QA	11/03/2019	--	--	--	--	<19	--	--	--	--	<0.2	<0.2	<0.4	<1	--	--	
QA	05/06/2020	--	--	--	--	38.7 B J	--	--	--	--	<1.00	<1.00	<1.00	<3.00	--	--	
QA	11/7/2020	--	--	--	--	43.1 B J	--	--	--	--	<1.00	<1.00	<1.00	<3.00	--	--	

Table 2. Historical Groundwater Gauging Data and Select Analytical Results  
COWLITZ BP / COWLITZ Food and Fuel / Former Texaco Service Station No. 211556  
101 Mulford Road  
Toledo, Washington

**Notes:**

800/1,000 = GRO MTCA Method A CUL with benzene present is 800 µg/L and without is 1,000 µg/L

**BOLD and highlighted** values exceed their respective MTCA Method A cleanup level

**BOLD** values are non-detect do not exceed the laboratory method detection limit (MDL), but the MDL exceeds the MTCA Method A cleanup level  
Results reported in micrograms per liter (µg/L)

**Abbreviations:**

TOC = Top of Casing in feet above North American Vertical Datum of 1988 (NAVD 88)

DTW = Depth to water in feet below TOC

NAPL = Non-aqueous phase liquid thickness in feet

GWE = Groundwater elevation in feet relative to NAVD88

-- = Not applicable, not available, or not analyzed

MTCA = Model Toxics Control Act Cleanup

CUL = Cleanup Level

DUP = Blind duplicate sample results

LFP = Low flow (purge) sample

QA = Quality Assurance

**Laboratory Qualifiers:**

< = Not detected at or above the laboratory Reporting Limit (RL) or Limit of Quantification (LOQ)

J = Estimated value; result is greater than the laboratory Method Detection Limit (MDL) but less than the RL or LOQ.

B = The same analyte is found in the associated blank.

**Analytical Methods:**

Samples analyzed by USEPA Method 8260

BTEX = benzene, toluene, ethylbenzene, and total xylenes

MTBE = Methyl tertiary butyl ether

TPH-GRO = Total Petroleum Hydrocarbons as Gasoline Range Organics analyzed by NWTPH-Gx

Samples analyzed by NWTPH-Dx

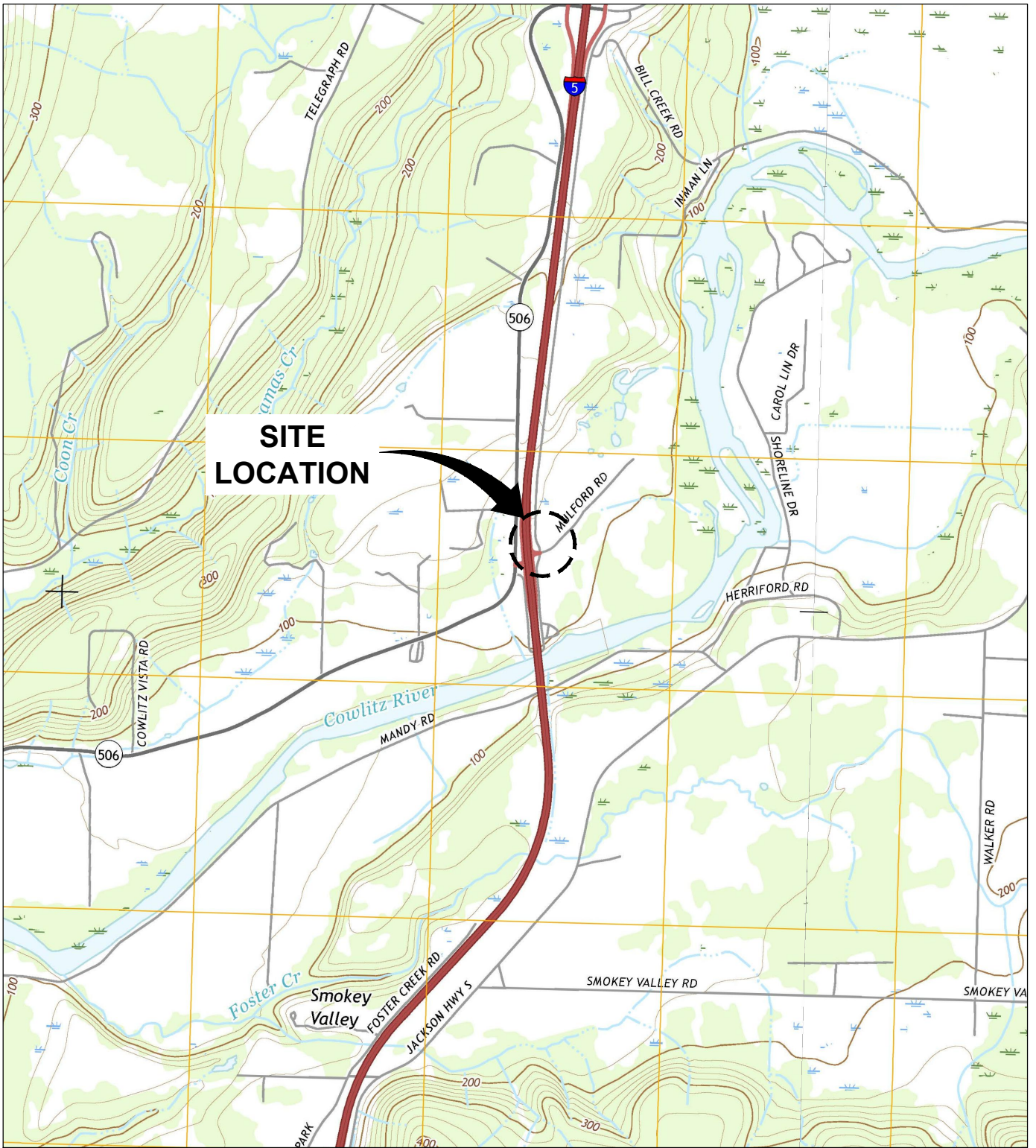
TPH-DRO = Total Petroleum Hydrocarbon as Diesel Range Organics

TPH-HRO = Total Petroleum Hydrocarbons as Heavy Oil Range Organics

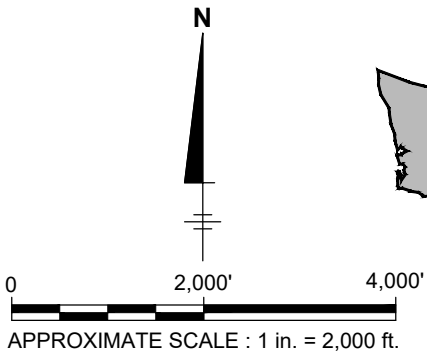
Dissolved Lead analyzed by USEPA 6020

# FIGURES





REFERENCE: BASE MAP USGS 7.5. MIN. TOPO. QUAD., WINLOCK, WA, 2017 AND TOLEDO, WA, 2017.

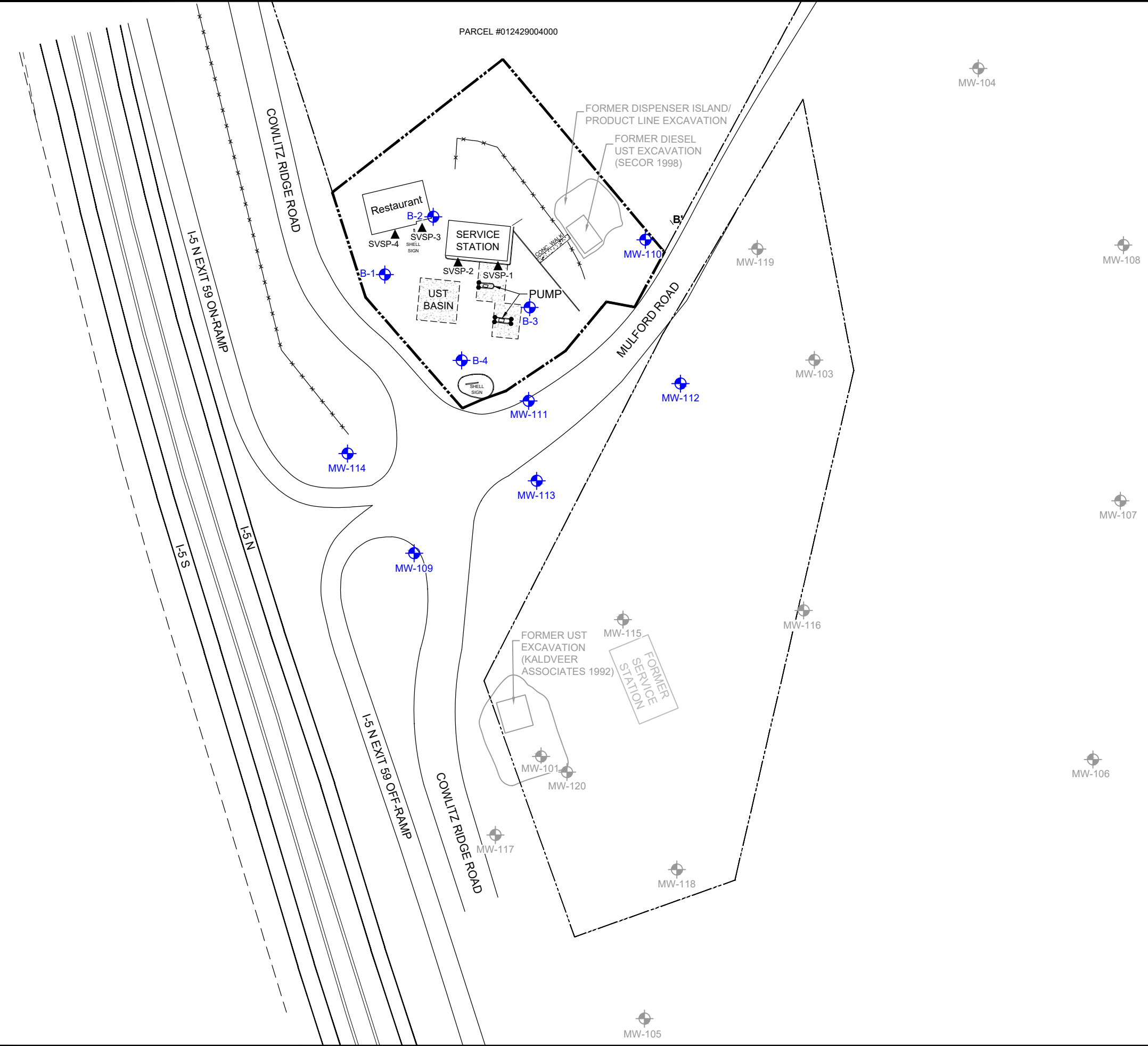


COWLITZ BP / COWLITZ FOOD AND FUEL /  
 FORMER TEXACO SERVICE STATION No. 211556  
 101 MULFORD ROAD  
 TOLEDO, WASHINGTON

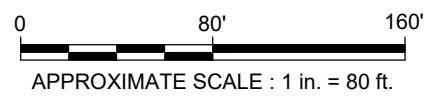
**SITE LOCATION MAP**

	<p><i>Design &amp; Consultancy                  for natural and                  built assets</i></p>	<p>FIGURE  <b>1</b></p>
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CITY:EMERYVILLE,CA\_DIVIGROUP:ENVCAD\_DR:A:REYES  
 C:\Users\brayrapp\346161M\_360\Arcadis\ANA - CHEYRON CORPORATION\Project Files\211556 - TOLEDO\2020\3046043\01-DWG\4Q2020-FIG02-SITE PLAN.dwg LAYOUT:2\_SAVED:12/7/2020 9:08 AM ACADYER:231S (LMS TECH) PAGES:SETUP:--- PLOTSTYLETABLE:PLT\FULL.CTB PLOTTED:  
 12/7/2020 5:12 AM BY:BYRAPPA, BYRAREDDY



- LEGEND:**
- LEWIS COUNTY PARCEL No. 012429003001 BOUNDARY
  - LEWIS COUNTY PARCEL No. 012429002001 BOUNDARY
  - FENCE
  - MW-119 GROUNDWATER MONITORING WELL
  - MW-108 ABANDONED MONITORING WELL
  - SVSP-2 SOIL VAPOR SAMPLING PROBES
  - UST UNDERGROUND STORAGE TANK



COWLITZ BP / COWLITZ FOOD AND FUEL /  
 FORMER TEXACO SERVICE STATION No. 211556  
 101 MULFORD ROAD  
 TOLEDO, WASHINGTON

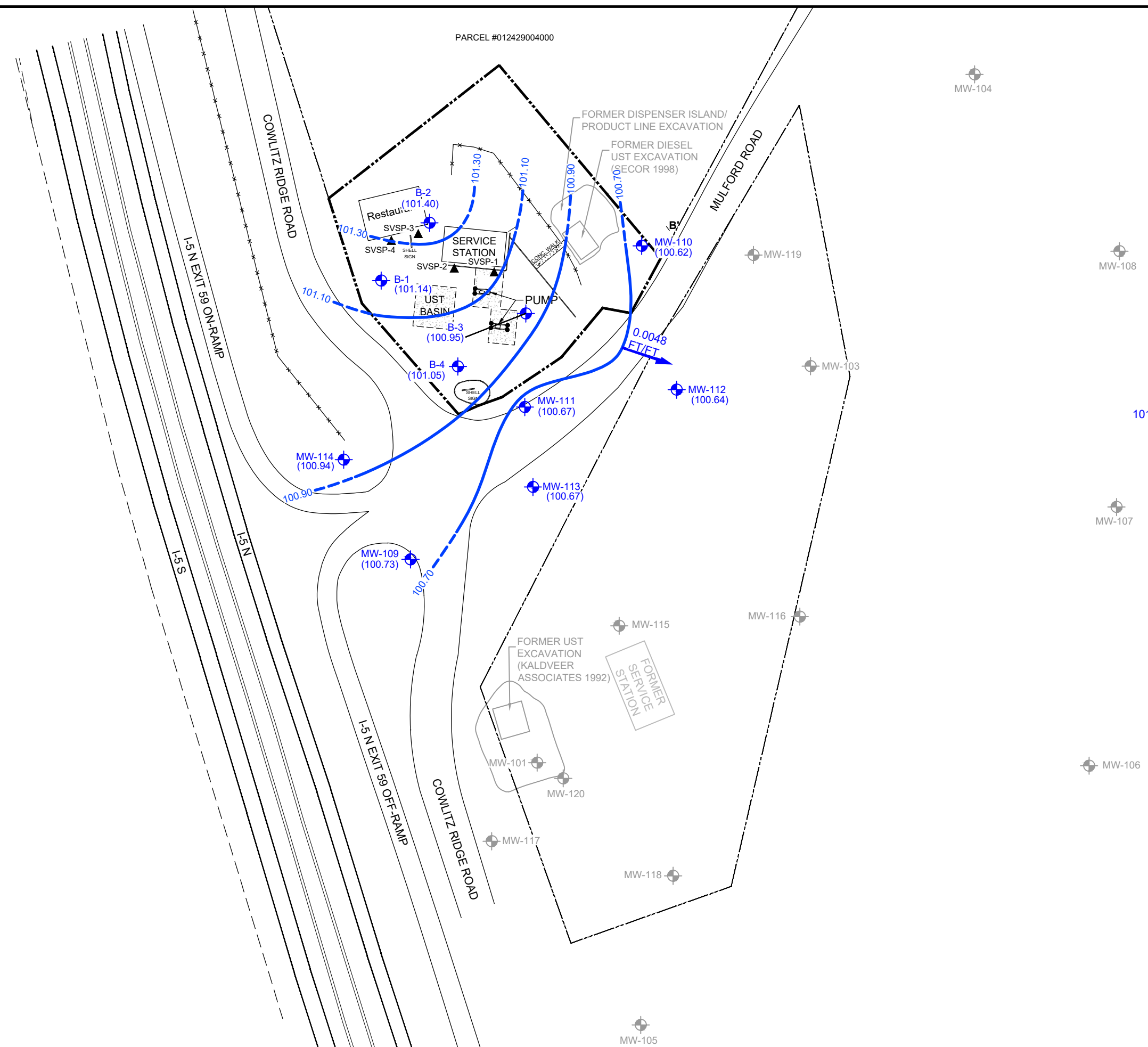
**SITE PLAN**

**ARCADIS** | Design & Consultancy  
 for natural and built assets

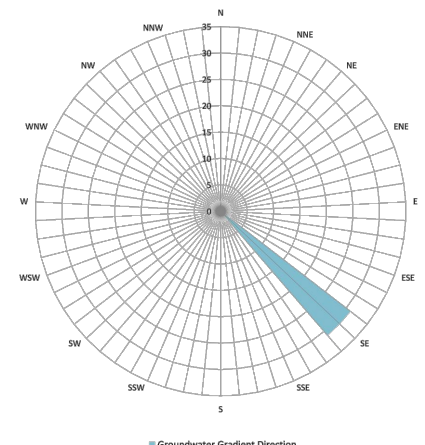
FIGURE  
**2**



CITY:EMERYVILLE,CA\_DIV:GROUP:ENV:CAD\_DRA:REYES  
 C:\Users\salotag\792\BIM\360\Arcadis\ANA-CHEVRON CORPORATION\Project Files\211556 - TOLEDO\2020\3004604301-DWG\402020-FIG03-GWCM.dwg LAYOUT: 3 - SAVED: 12/15/2020 1:44 PM ACADVER: 23.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLT\FULL.CTB PLOTTED: 12/16/2020 12:23 PM BY: SALOTAGI, NANDITHA



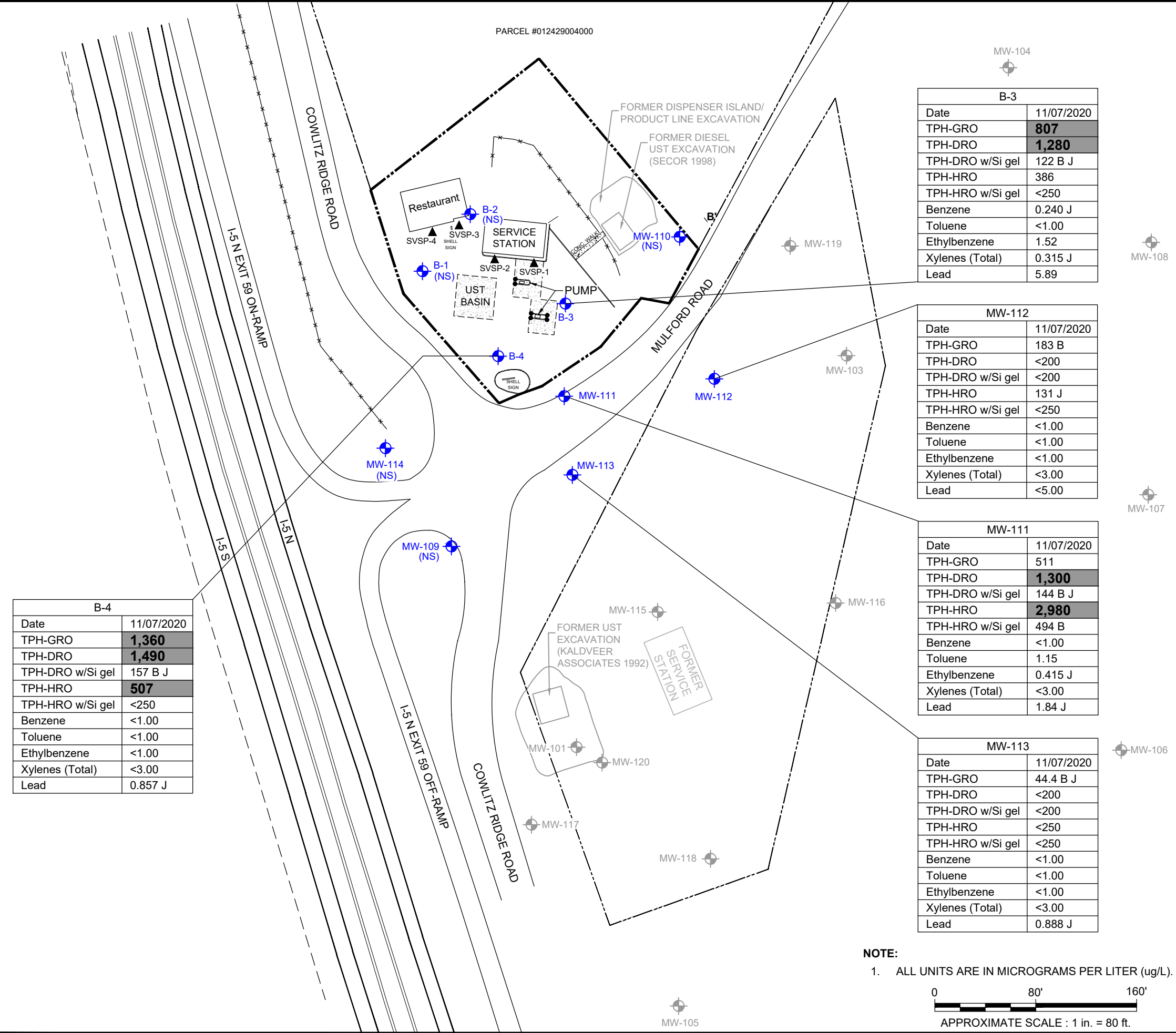
- LEGEND:**
- LEWIS COUNTY PARCEL No. 012429003001 BOUNDARY
  - LEWIS COUNTY PARCEL No. 012429002001 BOUNDARY
  - FENCE
  - MW-119 GROUNDWATER MONITORING WELL
  - MW-108 ABANDONED MONITORING WELL
  - SVSP-2 SOIL VAPOR SAMPLING PROBES
  - UST UNDERGROUND STORAGE TANK
  - 101.40 GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
  - (101.40) GROUNDWATER ELEVATION (FEET)
  - APPROXIMATE GROUNDWATER FLOW DIRECTION
  - 0.0048 FT/FT APPROXIMATE HYDRAULIC GRADIENT (FEET/FOOT)



COWLITZ BP / COWLITZ FOOD AND FUEL /  
 FORMER TEXACO SERVICE STATION No. 211556  
 101 MULFORD ROAD  
 TOLEDO, WASHINGTON

**GROUNDWATER ELEVATION CONTOUR MAP  
 NOVEMBER 7, 2020**

CITY:EMERYVILLE,CA\_DIV:GROUP:ENV:CAD\_DRA:REVES  
 C:\Users\salotagj\7992\BIM\360\Arcadis\ANA-CHEVRON CORPORATION\Project Files\211556 - TOLEDO\2020\3004694301-DWG\40220-FIG04-GWAM.dwg LAYOUT: 4 SAVED: 12/15/2020 1:44 PM ACADVER: 23.1S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: PLT\FULL.CTB PLOTTED: 12/16/2020 12:19 PM BY: SALOTAGJ, NANDITHA



B-4	
Date	11/07/2020
TPH-GRO	<b>1,360</b>
TPH-DRO	<b>1,490</b>
TPH-DRO w/Si gel	157 B J
TPH-HRO	<b>507</b>
TPH-HRO w/Si gel	<250
Benzene	<1.00
Toluene	<1.00
Ethylbenzene	<1.00
Xylenes (Total)	<3.00
Lead	0.857 J

B-3	
Date	11/07/2020
TPH-GRO	<b>807</b>
TPH-DRO	<b>1,280</b>
TPH-DRO w/Si gel	122 B J
TPH-HRO	386
TPH-HRO w/Si gel	<250
Benzene	0.240 J
Toluene	<1.00
Ethylbenzene	1.52
Xylenes (Total)	0.315 J
Lead	5.89

MW-112	
Date	11/07/2020
TPH-GRO	183 B
TPH-DRO	<200
TPH-DRO w/Si gel	<200
TPH-HRO	131 J
TPH-HRO w/Si gel	<250
Benzene	<1.00
Toluene	<1.00
Ethylbenzene	<1.00
Xylenes (Total)	<3.00
Lead	<5.00

MW-111	
Date	11/07/2020
TPH-GRO	511
TPH-DRO	<b>1,300</b>
TPH-DRO w/Si gel	144 B J
TPH-HRO	<b>2,980</b>
TPH-HRO w/Si gel	494 B
Benzene	<1.00
Toluene	1.15
Ethylbenzene	0.415 J
Xylenes (Total)	<3.00
Lead	1.84 J

MW-113	
Date	11/07/2020
TPH-GRO	44.4 B J
TPH-DRO	<200
TPH-DRO w/Si gel	<200
TPH-HRO	<250
TPH-HRO w/Si gel	<250
Benzene	<1.00
Toluene	<1.00
Ethylbenzene	<1.00
Xylenes (Total)	<3.00
Lead	0.888 J

- LEGEND:**
- LEWIS COUNTY PARCEL No. 012429003001 BOUNDARY
  - LEWIS COUNTY PARCEL No. 012429002001 BOUNDARY
  - FENCE
  - MW-119 GROUNDWATER MONITORING WELL
  - MW-108 ABANDONED MONITORING WELL
  - SVSP-2 SOIL VAPOR SAMPLING PROBES
  - UST UNDERGROUND STORAGE TANK
  - < LESS THAN, CONSTITUENT NOT DETECTED ABOVE THE REPORTING LIMIT (RL)
  - J ESTIMATED VALUE BETWEEN RL AND METHOD DETECTION LIMIT (MDL)
  - (NS) NOT SAMPLED
  - BOLD** ANALYTE CONCENTRATION EXCEEDS MODEL TOXICS CONTROL ACT (MTCA) METHOD A CLEANUP LEVELS
  - TPH TOTAL PETROLEUM HYDROCARBONS
  - B THE SAME ANALYTE IS FOUND IN ASSOCIATED BLANK
  - w/Si gel WITH SILICA GEL CLEANUP
  - \* 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 BENZENE PRESENT IS 800 µg/L AND WITHOUT IS 1,000 µg/L

Well ID		
Constituent		MTCA CULs*
TPH-GRO	TPH as gasoline	<b>800/1,000</b>
TPH-DRO	TPH as diesel	<b>500</b>
TPH-DRO w/Si gel	TPH-DRO w/Si gel	<b>500</b>
TPH-HRO	TPH as motor oil	<b>500</b>
TPH-HRO w/Si gel	TPH-HRO w/Si gel	<b>500</b>
Benzene	Benzene	<b>5</b>
Toluene	Toluene	<b>1,000</b>
Ethylbenzene	Ethylbenzene	<b>700</b>
Xylenes (Total)	Xylenes (Total)	<b>1,000</b>
Lead	Lead (Dissolved)	<b>15</b>

COWLITZ BP / COWLITZ FOOD AND FUEL /  
 FORMER TEXACO SERVICE STATION No. 211556  
 101 MULFORD ROAD  
 TOLEDO, WASHINGTON

**GROUNDWATER ANALYTICAL MAP  
 NOVEMBER 7, 2020**

**ARCADIS** Design & Consultancy  
 for natural and built assets

FIGURE  
**4**

**NOTE:**  
 1. ALL UNITS ARE IN MICROGRAMS PER LITER (ug/L).

0 80' 160'  
 APPROXIMATE SCALE : 1 in. = 80 ft.

# ATTACHMENT A

Field Data Sheets and General Procedures







# GETTLER-RYAN INC.



## TRANSMITTAL

November 23, 2020

G-R #17156773

TO: Ms. Ada Hamilton  
Arcadis  
1100 Olive Way, Suite 800  
Seattle, Washington 98101

FROM: Deanna L. Harding  
Project Manager  
Gettler-Ryan Inc.  
6805 Sierra Court, Suite G  
Dublin, California 94568

RE: **Former Texaco Service Station  
#211556/Cowlitz BP  
101 Mulford Road  
Toledo, Washington  
UST Site#10669**

### WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package <b>Second Semi Annual Event November 7, 2020</b>

### COMMENTS:

Pursuant to your request, we are providing you with copies of the above referenced data for your use.

All field data was uploaded to Field Now/Fulcrum App.

Please provide us the updated historical data prior to the next monitoring and sampling event for our field use.

Please feel free to contact me if you have any comments/questions.

trans/211556

## **STANDARD OPERATING PROCEDURE, LOW-FLOW PURGING AND SAMPLING**

Gettler-Ryan Inc. field personnel adhere to the following Standard Operating Procedure (SOP) for the collection and handling of representative groundwater samples using the Low-Flow (Minimal-Drawdown) Purging technique. This SOP incorporates purging and sampling methods discussed in U.S. EPA, Ground Water Issue, Publication Number EPA/540/S-95/504, April 1996 by Puls, R.W. and M.J. Barcelona - "*Low-Flow (Minimal-Drawdown) Ground-Water Sampling Procedures.*"

A QED Well Wizard™ (or equivalent) bladder pump or Peristaltic Pump will be used to purge and sample selected wells as outlined in the scope-of-work. An in-line flow cell or other multi-parameter meter is used to collect water quality indicating parameters during purging.

### ***Initial Pump Discharge Test Procedures***

The Static Water Level (SWL) is measured in all wells at the site prior to the installation of the pump or tubing and initiation of the test procedures in any well. In addition, the presence or absence of separate-phase hydrocarbons (SPH) is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot. The SWL measurement and SPH thickness, if any, will be recorded on the field data sheet. Total well depths are measured annually.

The bladder pump or suction inlet tubing of the peristaltic pump is then positioned with its inlet located within the screened interval of the well. The in-line flow cell is then connected to the discharge tubing. After pump installation, the SWL is allowed to recover to its original level. The pump is then started at a discharge rate between 100 ml to 300 ml per minute with the in-line flow cell connected. The water level is monitored continuously for any change from the original measurement and the discharge rate is adjusted until an optimum discharge rate (ODR) is determined. The goal for the ODR is to produce a stable drawdown of less than 0.1 meter as allowed by site conditions; however the total drawdown from the initial SWL should not exceed 25% of the distance between pump inlet location and the top of the well screen. Once achieved, the ODR will be confirmed by volumetric discharge measurement and recorded on the field data sheet.

### ***Purging and Water Quality Parameter Measurement***

When the ODR has been determined and the SWL drawdown has been established within the acceptable range, and a minimum of one pump system volume (bladder volume and/or discharge tubing volume) has been purged, field measurements for temperature (T), pH, conductivity (Ec), and if required, oxygen reduction potential (ORP) and dissolved oxygen (DO) will be collected and documented on the field data sheet. Measurements should be taken every three to five minutes until parameters stabilize for three consecutive readings. The minimum parameter subset of T ( $\pm 10\%$ ), pH ( $\pm 0.1$  unit), and Ec ( $\pm 10$  uS) are required to stabilize. Additional parameters that may be required are DO ( $\pm 0.2$  mg/l) and ORP ( $\pm 20$  mV).

## *Sample Collection*

When water quality parameters have stabilized, and the SWL drawdown remains established within the acceptable range, groundwater sample collection may begin. If used, the in-line flow cell and its tubing are disconnected from the discharge tubing prior to sample collection. Water samples are collected from the discharge tubing into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards, as directed by the scope of work. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. A laboratory supplied trip blank accompanies each sampling set. The trip blank is analyzed for some or all of the same compounds as the groundwater samples. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

## Groundwater Gauging Log

<b>Client:</b>		Chevron					
<b>Site ID:</b>		211556					
<b>Site Location:</b>		101 Mulford Road, Toledo, WA					
<b>Measuring Point:</b>		Top of Casing					
<b>Date(s):</b>		11/07/2020					
<b>Sampler(s):</b>		Alex Wong					
<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
B-1	11/07/2020	09:05	6.6	ND	19.95	--	--
B-2	11/07/2020	09:00	7.59	ND	19.30	--	Morris 8" 3
B-3	11/07/2020	09:15	7.51	ND	13.81	--	--
B-4	11/07/2020	09:10	6.63	ND	14.85	--	--
MW-109	11/07/2020	09:35	6.62	ND	12.63	--	--
MW-110	11/07/2020	09:25	8.27	ND	19.80	--	--
MW-111	11/07/2020	09:20	6.45	ND	17.71	--	--
MW-112	11/07/2020	09:45	6.94	ND	17.30	--	--
MW-113	11/07/2020	09:40	7.77	ND	18.10	--	--
MW-114	11/07/2020	09:30	5.95	ND	16.80	--	--

ft-bmp = feet below measuring point

ND = Not Detected

PID = Photoionization Detector Reading

ppmv = parts per million volume

-- = Not Recorded

Chevron Groundwater Sampling Form



<b>Project Number</b>	30064316	<b>Well ID</b>	B-3	<b>Date</b>	11/7/2020		
<b>Site Location</b>	101 Mulford Road, Toledo, WA	<b>Site ID</b>	211556	<b>Weather (*F)</b>	Cloudy	<b>Sampled by</b>	Alex Wong
<b>Measuring Point Description</b>	Top of Casing	<b>Screen Depth Interval (ft-bmp)</b>	-- to --	<b>Casing Diameter (in.)</b>	2	<b>Well Casing Material</b>	PVC
<b>Static Water Level (ft-bmp)</b>	7.51	<b>Total Depth (ft-bmp)</b>	13.81	<b>Water Column (ft)</b>	6.30	<b>Gallons in Well</b>	1.02
<b>Water Quality Meter Make/Model</b>	YSI ProDSS	<b>Purge Method</b>	Low-Flow	<b>Sample Method</b>	Grab		
<b>Sample Time</b>	11:39	<b>Volumes Purged</b>	1.24	<b>Sample ID</b>	B-3	<b>Evacuation Equipment</b>	Peristaltic
<b>Purge Start</b>	10:55	<b>Gallons Purged</b>	1.27	<b>Duplicate ID</b>	-		
<b>Purge End</b>	11:19	<b>Total Purge Time (h:m)</b>	0:24				

Time	Rate (mL/min)	Depth to Water (ft)	Total Volume purged (ml)	Total Volume purged (gal)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (*C)	Redox (mV)	Appearance	
											Color	Odor
11:13	200	7.55	3600	--	6.29	0.380	245	3.32	13.90	67	Brown	None
11:16	200	7.57	4200	--	6.32	0.381	246	3.29	13.94	67.4	Brown	None
11:19	200	7.78	4800	--	6.35	0.381	267	3.40	13.99	68	Brown	None

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:           B-3           Sample Time:           11:39           Sample Depth (ft-bmp):           11            
 Analytes and Methods:           See COC          

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

Chevron Groundwater Sampling Form



<b>Project Number</b>	30064316	<b>Well ID</b>	B-4	<b>Date</b>	11/7/2020		
<b>Site Location</b>	101 Mulford Road, Toledo, WA	<b>Site ID</b>	211556	<b>Weather (°F)</b>	Cloudy	<b>Sampled by</b>	Alex Wong
<b>Measuring Point Description</b>	Top of Casing	<b>Screen Depth Interval (ft-bmp)</b>	-- to --	<b>Casing Diameter (In.)</b>	2	<b>Well Casing Material</b>	PVC
<b>Static Water Level (ft-bmp)</b>	6.63	<b>Total Depth (ft-bmp)</b>	14.85	<b>Water Column (ft)</b>	8.22	<b>Gallons In Well</b>	1.34
<b>Water Quality Meter Make/Model</b>	YSI ProDSS	<b>Purge Method</b>	Low-Flow	<b>Sample Method</b>	Grab		
<b>Sample Time</b>	10:40	<b>Volumes Purged</b>	0.95	<b>Sample ID</b>	B-4	<b>Evacuation Equipment</b>	Peristaltic
<b>Purge Start</b>	10:00	<b>Gallons Purged</b>	1.27	<b>Duplicate ID</b>	--		
<b>Purge End</b>	10:24	<b>Total Purge Time (h:m)</b>	0:24				

Time	Rate (mL/min)	Depth to Water (ft)	Total Volume purged (ml)	Total Volume purged (gal)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
											Color	Odor
10:18	200	6.67	3600	--	6.58	0.289	365	2.69	13.60	76.7	Brown	None
10:21	200	6.69	4200	--	6.60	0.290	366	2.63	13.64	77	Brown	None
10:24	200	6.72	4800	--	6.64	0.291	367	2.75	13.70	77.4	Brown	None

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: B-4 Sample Time: 10:40 Sample Depth (ft-bmp): 10.25  
 Analytes and Methods: See COC

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

Chevron Groundwater Sampling Form



<b>Project Number</b>	30064316	<b>Well ID</b>	MW-111	<b>Date</b>	11/7/2020		
<b>Site Location</b>	101 Mulford Road, Toledo, WA	<b>Site ID</b>	211556	<b>Weather (°F)</b>	Cloudy	<b>Sampled by</b>	Alex Wong
<b>Measuring Point Description</b>	Top of Casing	<b>Screen Depth Interval (ft-bmp)</b>	-- to --	<b>Casing Diameter (In.)</b>	4	<b>Well Casing Material</b>	PVC
<b>Static Water Level (ft-bmp)</b>	6.45	<b>Total Depth (ft-bmp)</b>	17.71	<b>Water Column (ft)</b>	11.26	<b>Gallons in Well</b>	7.32
<b>Water Quality Meter Make/Model</b>	YSI ProDSS	<b>Purge Method</b>	Low-Flow	<b>Sample Method</b>	Grab		
<b>Sample Time</b>	12:36	<b>Volumes Purged</b>	0.17	<b>Sample ID</b>	MW-111	<b>Evacuation Equipment</b>	Peristaltic
<b>Purge Start</b>	11:55	<b>Gallons Purged</b>	1.27	<b>Duplicate ID</b>	-		
<b>Purge End</b>	12:19	<b>Total Purge Time (h:m)</b>	0:24				

Time	Rate (mL/min)	Depth to Water (ft)	Total Volume purged (ml)	Total Volume purged (gal)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
											Color	Odor
12:13	200	6.48	3600	--	5.96	0.068	300	4.21	13.96	95.1	Brown	Mild
12:16	200	6.50	4200	--	6.00	0.068	301	4.18	14.00	95.5	Brown	Mild
12:19	200	6.53	4800	--	6.04	0.069	302	4.27	14.03	96	Brown	Mild

**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-111                Sample Time:           12:36                Sample Depth (ft-bmp):           12            
 Analytes and Methods:           See COC          

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

## Chevron Groundwater Sampling Form



<b>Project Number</b>	30064316	<b>Well ID</b>	MW-112	<b>Date</b>	11/7/2020		
<b>Site Location</b>	101 Mulford Road, Toledo, WA	<b>Site ID</b>	211556	<b>Weather (°F)</b>	Cloudy	<b>Sampled by</b>	Alex Wong
<b>Measuring Point Description</b>	Top of Casing	<b>Screen Depth Interval (ft-bmp)</b>	-- to --	<b>Casing Diameter (in.)</b>	2	<b>Well Casing Material</b>	PVC
<b>Static Water Level (ft-bmp)</b>	6.94	<b>Total Depth (ft-bmp)</b>	17.3	<b>Water Column (ft)</b>	10.36	<b>Gallons in Well</b>	1.68
<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>	14:32	<b>Volumes Purged</b>	0.75	<b>Sample ID</b>	MW-112	<b>Evacuation Equipment</b>	Peristaltic
<b>Purge Start</b>	13:45	<b>Gallons Purged</b>	1.27	<b>Duplicate ID</b>	-		
<b>Purge End</b>	14:09	<b>Total Purge Time (h:m)</b>	0:24				

Time	Rate (mL/min)	Depth to Water (ft)	Total Volume purged (ml)	Total Volume purged (gal)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
											Color	Odor
14:03	200	6.99	3600	--	6.42	0.244	409	4.37	11.55	172.7	Brown	None
14:06	200	7.00	4200	--	6.49	0.243	409	4.33	11.61	173.1	Brown	None
14:09	200	7.07	4800	--	6.50	0.244	409	4.30	11.70	173	Brown	None

**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-112 Sample Time: 14:32 Sample Depth (ft-bmp): 12.5  
 Analytes and Methods: See COC

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



<b>Project Number</b>	30064316	<b>Well ID</b>	MW-113	<b>Date</b>	11/7/2020		
<b>Site Location</b>	101 Mulford Road, Toledo, WA	<b>Site ID</b>	211556	<b>Weather (°F)</b>	Cloudy	<b>Sampled by</b>	Alex Wong
<b>Measuring Point Description</b>	Top of Casing	<b>Screen Depth Interval (ft-bmp)</b>	-- to --	<b>Casing Diameter (in.)</b>	4	<b>Well Casing Material</b>	PVC
<b>Static Water Level (ft-bmp)</b>	7.77	<b>Total Depth (ft-bmp)</b>	18.1	<b>Water Column (ft)</b>	10.33	<b>Gallons in Well</b>	6.71
<b>Water Quality Meter Make/Model</b>	YSI ProDSS	<b>Purge Method</b>	Low-Flow	<b>Sample Method</b>	Grab		
<b>Sample Time</b>	13:31	<b>Volumes Purged</b>	0.19	<b>Sample ID</b>	MW-113	<b>Evacuation Equipment</b>	Peristaltic
<b>Purge Start</b>	12:50	<b>Gallons Purged</b>	1.27	<b>Duplicate ID</b>	--		
<b>Purge End</b>	13:14	<b>Total Purge Time (h:m)</b>	0:24				

Time	Rate (mL/min)	Depth to Water (ft)	Total Volume purged (ml)	Total Volume purged (gal)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
											Color	Odor
13:08	200	7.81	3600	--	6.27	0.115	309	3.39	13.95	87.6	Brown	None
13:11	200	7.82	4200	--	6.32	0.115	310	3.33	14.02	88	Brown	None
13:14	200	7.83	4800	--	6.34	0.115	311	3.31	14.07	90	Brown	None

**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-113                Sample Time:           13:31                Sample Depth (ft-bmp):           13          

Analytes and Methods:           See COC          

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



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #211556 Job Number: 17156773  
 Site Address: 101 Mulford Road Event Date: 11-7-20 (inclusive)  
 City: Toledo, WA Sampler: AW

Well ID: TPWHD-1 Date Monitored: 11-7-20

Well Diameter:        in.  
 Total Depth:        ft.  
 Depth to Water:        ft.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]:         
 xVF        =        x3 case volume = Estimated Purge Volume:        gal.

**Purge Equipment:**  
 Disposable Bailer         
 Stainless Steel Bailer         
 Stack Pump         
 Peristaltic Pump         
 QED Bladder Pump         
 Other:       

**Sampling Equipment:**  
 Disposable Bailer        ✓  
 Pressure Bailer         
 Metal Filters         
 Peristaltic Pump         
 QED Bladder Pump         
 Other:       

Time Started:        (2400 hrs)  
 Time Completed:        (2400 hrs)  
 Depth to Product:        ft  
 Depth to Water:        ft  
 Hydrocarbon Thickness:        ft  
 Visual Confirmation/Description:         
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer:        ltr  
 Amt Removed from Well:        ltr  
 Water Removed:        ltr  
 Product Transferred to:       

Start Time (purge):        Weather Conditions: Cloudy  
 Sample Time/Date: 1500 / 11-7-20 Water Color: clear Odor: Y 100  
 Approx. Flow Rate:        gpm. Sediment Description: clear  
 Did well de-water?        If yes, Time:        Volume:        gal. DTW @ Sampling:       

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS umhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
TPWHD-1	6 x amber vov vial	YES	HCL	PACE	NWTPH-Gx/BTEX(8260)
	4 x amber vov vial	YES	HCL	PACE	NWTPH-Dx w/sgc/NWTPH-Dx
	1 x 250ml poly	YES	NP	PACE	DISSOLVED LEAD(6020 ICP/MS)

COMMENTS:         
        
      

Add/Replaced Gasket:        Add/Replaced Bolt:        Add/Replaced Plug:        Add/Replaced Lock:

# Arcadis - Chevron - WA

1100 Olive Way  
Suite 800  
Seattle WA 98101

Report to:  
Komal Dixit

Project Description:  
211556

Phone: 206-325-5254

Collected by (print):  
ALEX WONG

Collected by (signature):

Immediately Packed on Ice N  Y

Billing information:  
Attn: Accounts Payable  
630 Plaza Dr., Ste. 600  
Highlands Ranch, CO 80129

Email To:  
Komal.Dixit@arcadis.com;Ada.Hamilton@arcadi

City/State Collected: TULEDO, WA

Please Circle:  
PT MT CT ET

Client Project #

Lab Project #  
CHEVARCWA-211556

Site/Facility ID #

101 MULFORD ROAD,

P.O. #

Rush? (Lab MUST Be Notified)

Same Day  Five Day  
 Next Day  5 Day (Rad Only)  
 Two Day  10 Day (Rad Only)  
 Three Day

Quote #

Date Results Needed  
STANDARD TAT

No. of Cntrs

Analysis / Container / Preservative

Chain of Custody Page    of   



12065 Lebanon Rd  
Mount Juliet, TN 37122  
Phone: 615-758-5858  
Phone: 800-767-5859  
Fax: 615-758-5859



SDG #

Table #

Accnum: CHEVARCWA

Template: T176610

Prelogin: P805373

PM: 110 - Brian Ford

PB: EV 10/29/20

Shipped Via:

Remarks

Sample # (lab only)

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX 8260D 40mlAmb-HCl	FF Diss Pb 6020 250mlHDPE HNO3	LF Diss Pb 6020 250mlHDPE NoPres	NWTPHDX no silica 40mlAmb-HCl-BT	NWTPHDX w/ silica 40mlAmb-HCl-BT	NWTPHGX 40mlAmb HCl								
GA	G	GW		201107		2	X													
MW-111	G	GW		201107	1236	11	X	X		X	X									
MW-112	G	GW		201107	1432	11	X	X		X	X									
MW-113	G	GW		201107	1331	11	X	X		X	X									
B-3	G	GW		201107	1139	11	X	X		X	X									
B-4	G	GW		201107	1040	11	X	X		X	X									
TPWHD-1	G	GW		201107	1500	11	X		X	X	X									

\* Matrix:  
SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Bioassay  
WW - WasteWater  
DW - Drinking Water  
OT - Other

Remarks:  
pH \_\_\_\_\_ Temp \_\_\_\_\_  
Flow \_\_\_\_\_ Other \_\_\_\_\_

Sample Receipt Checklist:  
COC Seal Present/Intact:  NP  Y  N  
COC Signed/Accurate:  Y  N  
Bottles arrive intact:  Y  N  
Correct bottles used:  Y  N  
Sufficient volume sent:  Y  N  
If Applicable  
VOA Zero Headspace:  Y  N  
Preservation Correct/Checked:  Y  N  
RAD Screen <0.5 mR/hr:  Y  N

Samples returned via:  
 UPS  FedEx  Courier

Tracking #

Relinquished by: (Signature)	Date: 201110	Time: 1500	Received by: (Signature) FedEx	Trip Blank Received: Yes / No HCL / MeOH TBR
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: If preservation required by Login: Date/Time
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time: Hold: Condition: NCF / OK

# ATTACHMENT B

Laboratory Report and Chain-of-Custody Documentation

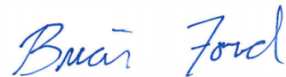




## Arcadis - Chevron - WA

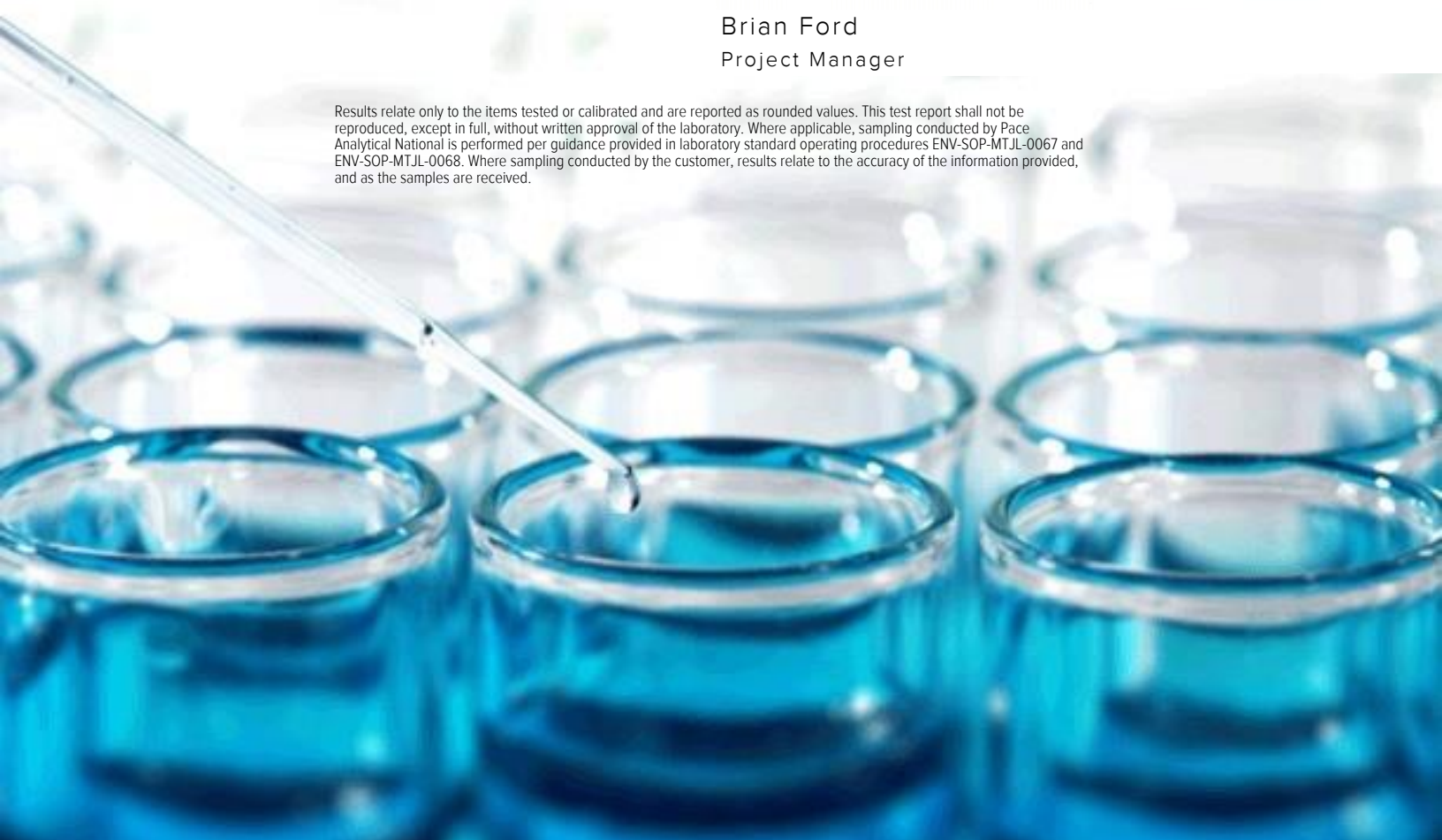
Sample Delivery Group: L1284580  
Samples Received: 11/11/2020  
Project Number: 30045354.5130  
Description: 211556  
Site: 101 MULFORD ROAD, TOLEDO, WA  
Report To: Komal Dixit  
1100 Olive Way  
Suite 800  
Seattle, WA 98101

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.





<b>Cp: Cover Page</b>	<b>1</b>	<b>1</b> Cp
<b>Tc: Table of Contents</b>	<b>2</b>	
<b>Ss: Sample Summary</b>	<b>3</b>	<b>2</b> Tc
<b>Cn: Case Narrative</b>	<b>5</b>	
<b>Sr: Sample Results</b>	<b>6</b>	<b>3</b> Ss
QA_201107 L1284580-01	<b>6</b>	
MW-111_201107 L1284580-02	<b>7</b>	<b>4</b> Cn
MW-112_201107 L1284580-03	<b>8</b>	<b>5</b> Sr
MW-113_201107 L1284580-04	<b>9</b>	
B-3_201107 L1284580-05	<b>10</b>	<b>6</b> Qc
B-4_201107 L1284580-06	<b>11</b>	
TPWHD-1_201107 L1284580-07	<b>12</b>	<b>7</b> Gl
<b>Qc: Quality Control Summary</b>	<b>13</b>	<b>8</b> Al
Metals (ICPMS) by Method 6020B	<b>13</b>	
Volatile Organic Compounds (GC) by Method NWTPHGX	<b>14</b>	<b>9</b> Sc
Volatile Organic Compounds (GC/MS) by Method 8260D	<b>15</b>	
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	<b>17</b>	
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	<b>19</b>	
<b>Gl: Glossary of Terms</b>	<b>22</b>	
<b>Al: Accreditations &amp; Locations</b>	<b>23</b>	
<b>Sc: Sample Chain of Custody</b>	<b>24</b>	

# SAMPLE SUMMARY



## QA\_201107 L1284580-01 GW

Collected by  
Alex Wong  
Collected date/time  
11/07/20 00:00  
Received date/time  
11/11/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1577674	1	11/17/20 12:04	11/17/20 12:04	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1576758	1	11/15/20 05:26	11/15/20 05:26	JCP	Mt. Juliet, TN

1  
Cp

2  
Tc

3  
Ss

## MW-111\_201107 L1284580-02 GW

Collected by  
Alex Wong  
Collected date/time  
11/07/20 12:36  
Received date/time  
11/11/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020B	WG1576386	1	11/13/20 22:26	11/14/20 02:21	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1577674	1	11/17/20 16:52	11/17/20 16:52	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1576758	1	11/15/20 06:28	11/15/20 06:28	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1577808	1	11/17/20 23:52	11/19/20 01:05	WCR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1579285	1	11/20/20 09:11	11/21/20 23:33	JDG	Mt. Juliet, TN

4  
Cn

5  
Sr

6  
Qc

7  
Gl

## MW-112\_201107 L1284580-03 GW

Collected by  
Alex Wong  
Collected date/time  
11/07/20 14:32  
Received date/time  
11/11/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020B	WG1576386	1	11/13/20 22:26	11/14/20 02:25	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1577674	1	11/17/20 17:17	11/17/20 17:17	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1576758	1	11/15/20 06:48	11/15/20 06:48	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1577808	1	11/17/20 23:52	11/18/20 19:57	WCR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1579285	1	11/20/20 09:11	11/21/20 23:07	AEG	Mt. Juliet, TN

8  
Al

9  
Sc

## MW-113\_201107 L1284580-04 GW

Collected by  
Alex Wong  
Collected date/time  
11/07/20 13:31  
Received date/time  
11/11/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020B	WG1576386	1	11/13/20 22:26	11/14/20 02:30	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1577674	1	11/17/20 17:41	11/17/20 17:41	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1576758	1	11/15/20 07:09	11/15/20 07:09	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1577808	1	11/17/20 23:52	11/18/20 20:23	WCR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1578949	1	11/18/20 16:59	11/19/20 08:53	DMG	Mt. Juliet, TN

## B-3\_201107 L1284580-05 GW

Collected by  
Alex Wong  
Collected date/time  
11/07/20 11:39  
Received date/time  
11/11/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020B	WG1576386	1	11/13/20 22:26	11/14/20 02:34	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1577674	1	11/17/20 18:05	11/17/20 18:05	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1578009	1	11/18/20 05:09	11/18/20 05:09	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1577808	1	11/17/20 23:52	11/18/20 20:49	WCR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1579285	1	11/20/20 09:11	11/21/20 22:15	AEG	Mt. Juliet, TN

## B-4\_201107 L1284580-06 GW

Collected by  
Alex Wong  
Collected date/time  
11/07/20 10:40  
Received date/time  
11/11/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020B	WG1576386	1	11/13/20 22:26	11/14/20 02:37	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1577674	1	11/17/20 18:29	11/17/20 18:29	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1576758	1	11/15/20 07:30	11/15/20 07:30	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1577808	1	11/17/20 23:52	11/18/20 21:14	WCR	Mt. Juliet, TN

# SAMPLE SUMMARY

## B-4\_201107 L1284580-06 GW

Collected by  
Alex Wong  
Collected date/time  
11/07/20 10:40  
Received date/time  
11/11/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1579285	1	11/20/20 09:11	11/21/20 22:41	AEG	Mt. Juliet, TN

## TPWHD-1\_201107 L1284580-07 GW

Collected by  
Alex Wong  
Collected date/time  
11/07/20 15:00  
Received date/time  
11/11/20 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020B	WG1576386	1	11/13/20 22:26	11/14/20 01:37	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1577674	1	11/17/20 18:53	11/17/20 18:53	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1576758	1	11/15/20 07:50	11/15/20 07:50	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1580615	1	11/22/20 17:54	11/23/20 12:06	CAG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1580616	1	11/22/20 18:52	11/23/20 12:06	CAG	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





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> Gl
- <sup>8</sup> Al
- <sup>9</sup> Sc



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	43.1	<u>BJ</u>	31.6	100	1	11/17/2020 12:04	<a href="#">WG1577674</a>
(S) a,a,a-Trifluorotoluene(FID)	97.5			78.0-120		11/17/2020 12:04	<a href="#">WG1577674</a>

1 Cp

2 Tc

3 Ss

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0941	1.00	1	11/15/2020 05:26	<a href="#">WG1576758</a>
Toluene	U		0.278	1.00	1	11/15/2020 05:26	<a href="#">WG1576758</a>
Ethylbenzene	U		0.137	1.00	1	11/15/2020 05:26	<a href="#">WG1576758</a>
Total Xylenes	U		0.174	3.00	1	11/15/2020 05:26	<a href="#">WG1576758</a>
(S) Toluene-d8	96.9			80.0-120		11/15/2020 05:26	<a href="#">WG1576758</a>
(S) 4-Bromofluorobenzene	100			77.0-126		11/15/2020 05:26	<a href="#">WG1576758</a>
(S) 1,2-Dichloroethane-d4	78.5			70.0-130		11/15/2020 05:26	<a href="#">WG1576758</a>

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Lead,Dissolved	1.84	J	0.849	5.00	1	11/14/2020 02:21	<a href="#">WG1576386</a>

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	511		31.6	100	1	11/17/2020 16:52	<a href="#">WG1577674</a>
(S) a,a,a-Trifluorotoluene(FID)	93.3			78.0-120		11/17/2020 16:52	<a href="#">WG1577674</a>

3 Ss

4 Cn

5 Sr

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Benzene	U		0.0941	1.00	1	11/15/2020 06:28	<a href="#">WG1576758</a>
Toluene	1.15		0.278	1.00	1	11/15/2020 06:28	<a href="#">WG1576758</a>
Ethylbenzene	0.415	J	0.137	1.00	1	11/15/2020 06:28	<a href="#">WG1576758</a>
Total Xylenes	U		0.174	3.00	1	11/15/2020 06:28	<a href="#">WG1576758</a>
(S) Toluene-d8	98.3			80.0-120		11/15/2020 06:28	<a href="#">WG1576758</a>
(S) 4-Bromofluorobenzene	101			77.0-126		11/15/2020 06:28	<a href="#">WG1576758</a>
(S) 1,2-Dichloroethane-d4	77.2			70.0-130		11/15/2020 06:28	<a href="#">WG1576758</a>

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	1300		66.7	200	1	11/19/2020 01:05	<a href="#">WG1577808</a>
Residual Range Organics (RRO)	2980		83.3	250	1	11/19/2020 01:05	<a href="#">WG1577808</a>
(S) o-Terphenyl	82.5			52.0-156		11/19/2020 01:05	<a href="#">WG1577808</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	144	B J	66.7	200	1	11/21/2020 23:33	<a href="#">WG1579285</a>
Residual Range Organics (RRO)	494	B	83.3	250	1	11/21/2020 23:33	<a href="#">WG1579285</a>
(S) o-Terphenyl	65.8			52.0-156		11/21/2020 23:33	<a href="#">WG1579285</a>



Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Lead,Dissolved	U		0.849	5.00	1	11/14/2020 02:25	<a href="#">WG1576386</a>

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	183	<u>B</u>	31.6	100	1	11/17/2020 17:17	<a href="#">WG1577674</a>
(S) a,a,a-Trifluorotoluene(FID)	99.5			78.0-120		11/17/2020 17:17	<a href="#">WG1577674</a>

3 Ss

4 Cn

5 Sr

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Benzene	U		0.0941	1.00	1	11/15/2020 06:48	<a href="#">WG1576758</a>
Toluene	U		0.278	1.00	1	11/15/2020 06:48	<a href="#">WG1576758</a>
Ethylbenzene	U		0.137	1.00	1	11/15/2020 06:48	<a href="#">WG1576758</a>
Total Xylenes	U		0.174	3.00	1	11/15/2020 06:48	<a href="#">WG1576758</a>
(S) Toluene-d8	97.2			80.0-120		11/15/2020 06:48	<a href="#">WG1576758</a>
(S) 4-Bromofluorobenzene	98.8			77.0-126		11/15/2020 06:48	<a href="#">WG1576758</a>
(S) 1,2-Dichloroethane-d4	80.4			70.0-130		11/15/2020 06:48	<a href="#">WG1576758</a>

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		66.7	200	1	11/18/2020 19:57	<a href="#">WG1577808</a>
Residual Range Organics (RRO)	131	<u>J</u>	83.3	250	1	11/18/2020 19:57	<a href="#">WG1577808</a>
(S) o-Terphenyl	70.0			52.0-156		11/18/2020 19:57	<a href="#">WG1577808</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		66.7	200	1	11/21/2020 23:07	<a href="#">WG1579285</a>
Residual Range Organics (RRO)	U		83.3	250	1	11/21/2020 23:07	<a href="#">WG1579285</a>
(S) o-Terphenyl	56.3			52.0-156		11/21/2020 23:07	<a href="#">WG1579285</a>



Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Lead,Dissolved	0.888	J	0.849	5.00	1	11/14/2020 02:30	<a href="#">WG1576386</a>

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	44.4	B J	31.6	100	1	11/17/2020 17:41	<a href="#">WG1577674</a>
(S) a,a,a-Trifluorotoluene(FID)	96.8			78.0-120		11/17/2020 17:41	<a href="#">WG1577674</a>

3 Ss

4 Cn

5 Sr

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Benzene	U		0.0941	1.00	1	11/15/2020 07:09	<a href="#">WG1576758</a>
Toluene	U		0.278	1.00	1	11/15/2020 07:09	<a href="#">WG1576758</a>
Ethylbenzene	U		0.137	1.00	1	11/15/2020 07:09	<a href="#">WG1576758</a>
Total Xylenes	U		0.174	3.00	1	11/15/2020 07:09	<a href="#">WG1576758</a>
(S) Toluene-d8	98.4			80.0-120		11/15/2020 07:09	<a href="#">WG1576758</a>
(S) 4-Bromofluorobenzene	101			77.0-126		11/15/2020 07:09	<a href="#">WG1576758</a>
(S) 1,2-Dichloroethane-d4	77.6			70.0-130		11/15/2020 07:09	<a href="#">WG1576758</a>

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		66.7	200	1	11/18/2020 20:23	<a href="#">WG1577808</a>
Residual Range Organics (RRO)	U		83.3	250	1	11/18/2020 20:23	<a href="#">WG1577808</a>
(S) o-Terphenyl	80.5			52.0-156		11/18/2020 20:23	<a href="#">WG1577808</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		66.7	200	1	11/19/2020 08:53	<a href="#">WG1578949</a>
Residual Range Organics (RRO)	U		83.3	250	1	11/19/2020 08:53	<a href="#">WG1578949</a>
(S) o-Terphenyl	62.1			52.0-156		11/19/2020 08:53	<a href="#">WG1578949</a>



Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Lead,Dissolved	5.89		0.849	5.00	1	11/14/2020 02:34	<a href="#">WG1576386</a>

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	807		31.6	100	1	11/17/2020 18:05	<a href="#">WG1577674</a>
(S) a,a,a-Trifluorotoluene(FID)	98.2			78.0-120		11/17/2020 18:05	<a href="#">WG1577674</a>

3 Ss

4 Cn

5 Sr

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Benzene	0.240	J	0.0941	1.00	1	11/18/2020 05:09	<a href="#">WG1578009</a>
Toluene	U		0.278	1.00	1	11/18/2020 05:09	<a href="#">WG1578009</a>
Ethylbenzene	1.52		0.137	1.00	1	11/18/2020 05:09	<a href="#">WG1578009</a>
Total Xylenes	0.315	J	0.174	3.00	1	11/18/2020 05:09	<a href="#">WG1578009</a>
(S) Toluene-d8	99.4			80.0-120		11/18/2020 05:09	<a href="#">WG1578009</a>
(S) 4-Bromofluorobenzene	93.4			77.0-126		11/18/2020 05:09	<a href="#">WG1578009</a>
(S) 1,2-Dichloroethane-d4	120			70.0-130		11/18/2020 05:09	<a href="#">WG1578009</a>

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	1280		66.7	200	1	11/18/2020 20:49	<a href="#">WG1577808</a>
Residual Range Organics (RRO)	386		83.3	250	1	11/18/2020 20:49	<a href="#">WG1577808</a>
(S) o-Terphenyl	77.5			52.0-156		11/18/2020 20:49	<a href="#">WG1577808</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	122	B_J	66.7	200	1	11/21/2020 22:15	<a href="#">WG1579285</a>
Residual Range Organics (RRO)	U		83.3	250	1	11/21/2020 22:15	<a href="#">WG1579285</a>
(S) o-Terphenyl	62.1			52.0-156		11/21/2020 22:15	<a href="#">WG1579285</a>



Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Lead,Dissolved	0.857	J	0.849	5.00	1	11/14/2020 02:37	<a href="#">WG1576386</a>

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	1360		31.6	100	1	11/17/2020 18:29	<a href="#">WG1577674</a>
(S) a,a,a-Trifluorotoluene(FID)	91.8			78.0-120		11/17/2020 18:29	<a href="#">WG1577674</a>

3 Ss

4 Cn

5 Sr

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Benzene	U		0.0941	1.00	1	11/15/2020 07:30	<a href="#">WG1576758</a>
Toluene	U		0.278	1.00	1	11/15/2020 07:30	<a href="#">WG1576758</a>
Ethylbenzene	U		0.137	1.00	1	11/15/2020 07:30	<a href="#">WG1576758</a>
Total Xylenes	U		0.174	3.00	1	11/15/2020 07:30	<a href="#">WG1576758</a>
(S) Toluene-d8	92.6			80.0-120		11/15/2020 07:30	<a href="#">WG1576758</a>
(S) 4-Bromofluorobenzene	97.2			77.0-126		11/15/2020 07:30	<a href="#">WG1576758</a>
(S) 1,2-Dichloroethane-d4	79.6			70.0-130		11/15/2020 07:30	<a href="#">WG1576758</a>

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	1490		66.7	200	1	11/18/2020 21:14	<a href="#">WG1577808</a>
Residual Range Organics (RRO)	507		83.3	250	1	11/18/2020 21:14	<a href="#">WG1577808</a>
(S) o-Terphenyl	78.5			52.0-156		11/18/2020 21:14	<a href="#">WG1577808</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	157	B_J	66.7	200	1	11/21/2020 22:41	<a href="#">WG1579285</a>
Residual Range Organics (RRO)	U		83.3	250	1	11/21/2020 22:41	<a href="#">WG1579285</a>
(S) o-Terphenyl	64.7			52.0-156		11/21/2020 22:41	<a href="#">WG1579285</a>



Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Lead,Dissolved	U		0.849	5.00	1	11/14/2020 01:37	<a href="#">WG1576386</a>

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	55.9	<u>B</u>	31.6	100	1	11/17/2020 18:53	<a href="#">WG1577674</a>
(S) a,a,a-Trifluorotoluene(FID)	96.4			78.0-120		11/17/2020 18:53	<a href="#">WG1577674</a>

3 Ss

4 Cn

5 Sr

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Benzene	U		0.0941	1.00	1	11/15/2020 07:50	<a href="#">WG1576758</a>
Toluene	U		0.278	1.00	1	11/15/2020 07:50	<a href="#">WG1576758</a>
Ethylbenzene	U		0.137	1.00	1	11/15/2020 07:50	<a href="#">WG1576758</a>
Total Xylenes	U		0.174	3.00	1	11/15/2020 07:50	<a href="#">WG1576758</a>
(S) Toluene-d8	95.6			80.0-120		11/15/2020 07:50	<a href="#">WG1576758</a>
(S) 4-Bromofluorobenzene	99.1			77.0-126		11/15/2020 07:50	<a href="#">WG1576758</a>
(S) 1,2-Dichloroethane-d4	80.2			70.0-130		11/15/2020 07:50	<a href="#">WG1576758</a>

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		66.7	200	1	11/23/2020 12:06	<a href="#">WG1580615</a>
Residual Range Organics (RRO)	U		83.3	250	1	11/23/2020 12:06	<a href="#">WG1580615</a>
(S) o-Terphenyl	72.6			52.0-156		11/23/2020 12:06	<a href="#">WG1580615</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		66.7	200	1	11/23/2020 12:06	<a href="#">WG1580616</a>
Residual Range Organics (RRO)	U		83.3	250	1	11/23/2020 12:06	<a href="#">WG1580616</a>
(S) o-Terphenyl	72.6			52.0-156		11/23/2020 12:06	<a href="#">WG1580616</a>

Sample Narrative:

L1284580-07 WG1580616: Reporting from non-silica data due to non-detect to the RDL.





Method Blank (MB)

(MB) R3593061-1 11/14/20 01:30

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Lead,Dissolved	U		0.849	5.00

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

Laboratory Control Sample (LCS)

(LCS) R3593061-2 11/14/20 01:34

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Lead,Dissolved	50.0	47.1	94.1	80.0-120	

<sup>7</sup> Gl

<sup>8</sup> Al

L1284580-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1284580-07 11/14/20 01:37 • (MS) R3593061-4 11/14/20 01:44 • (MSD) R3593061-5 11/14/20 01:47

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Lead,Dissolved	50.0	U	45.8	47.3	91.6	94.6	1	75.0-125			3.25	20

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3594424-2 11/17/20 11:08

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	48.6	↓	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	96.5			78.0-120

Laboratory Control Sample (LCS)

(LCS) R3594424-1 11/17/20 10:04

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5580	101	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			92.6	78.0-120	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3594170-2 11/15/20 03:57

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
<i>(S) Toluene-d8</i>	96.3			80.0-120
<i>(S) 4-Bromofluorobenzene</i>	101			77.0-126
<i>(S) 1,2-Dichloroethane-d4</i>	79.9			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3594170-1 11/15/20 03:15

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	5.00	4.90	98.0	70.0-123	
Ethylbenzene	5.00	4.80	96.0	79.0-123	
Toluene	5.00	4.41	88.2	79.0-120	
Xylenes, Total	15.0	14.6	97.3	79.0-123	
<i>(S) Toluene-d8</i>			96.6	80.0-120	
<i>(S) 4-Bromofluorobenzene</i>			98.7	77.0-126	
<i>(S) 1,2-Dichloroethane-d4</i>			82.4	70.0-130	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3594449-2 11/18/20 00:06

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.0941	1.00
Ethylbenzene	U		0.137	1.00
Toluene	U		0.278	1.00
Xylenes, Total	U		0.174	3.00
<i>(S) Toluene-d8</i>	103			80.0-120
<i>(S) 4-Bromofluorobenzene</i>	91.8			77.0-126
<i>(S) 1,2-Dichloroethane-d4</i>	119			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3594449-1 11/17/20 23:23

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	5.00	5.19	104	70.0-123	
Ethylbenzene	5.00	4.85	97.0	79.0-123	
Toluene	5.00	5.33	107	79.0-120	
Xylenes, Total	15.0	14.3	95.3	79.0-123	
<i>(S) Toluene-d8</i>			99.1	80.0-120	
<i>(S) 4-Bromofluorobenzene</i>			92.1	77.0-126	
<i>(S) 1,2-Dichloroethane-d4</i>			116	70.0-130	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3594734-1 11/18/20 13:06

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Diesel Range Organics (DRO)	U		66.7	200
Residual Range Organics (RRO)	U		83.3	250
<i>(S) o-Terphenyl</i>	80.5			52.0-156

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

(LCS) R3594734-2 11/18/20 13:32 • (LCSD) R3594734-3 11/18/20 13:57

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	1500	1570	1580	105	105	50.0-150			0.635	20
<i>(S) o-Terphenyl</i>				89.0	86.0	52.0-156				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3596726-1 11/23/20 09:58

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Diesel Range Organics (DRO)	U		66.7	200
Residual Range Organics (RRO)	U		83.3	250
<i>(S) o-Terphenyl</i>	68.0			52.0-156

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

(LCS) R3596726-2 11/23/20 10:23 • (LCSD) R3596726-3 11/23/20 10:49

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	1500	1470	1480	98.0	98.7	50.0-150			0.678	20
<i>(S) o-Terphenyl</i>				81.0	79.5	52.0-156				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3594909-1 11/19/20 05:12

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Diesel Range Organics (DRO)	U		66.7	200
Residual Range Organics (RRO)	U		83.3	250
<i>(S) o-Terphenyl</i>	69.0			52.0-156

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

(LCS) R3594909-2 11/19/20 05:32 • (LCSD) R3594909-3 11/19/20 05:53

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	1500	1390	1260	92.7	84.0	50.0-150			9.81	20
<i>(S) o-Terphenyl</i>				87.0	84.5	52.0-156				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3596501-1 11/21/20 20:06

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Diesel Range Organics (DRO)	84.3	↓	66.7	200
Residual Range Organics (RRO)	233	↓	83.3	250
(S) o-Terphenyl	72.5			52.0-156

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

(LCS) R3596501-2 11/21/20 20:32 • (LCSD) R3596501-3 11/21/20 20:58

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	1500	1280	1290	85.3	86.0	50.0-150			0.778	20
(S) o-Terphenyl				73.0	70.5	52.0-156				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Method Blank (MB)

(MB) R3596727-1 11/23/20 14:21

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Diesel Range Organics (DRO)	U		66.7	200
Residual Range Organics (RRO)	U		83.3	250
<i>(S) o-Terphenyl</i>	56.0			52.0-156

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

(LCS) R3596727-2 11/23/20 14:47 • (LCSD) R3596727-3 11/23/20 15:12

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	1500	1110	1170	74.0	78.0	50.0-150			5.26	20
<i>(S) o-Terphenyl</i>				58.0	61.5	52.0-156				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.

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



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* 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 National.

## State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
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>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

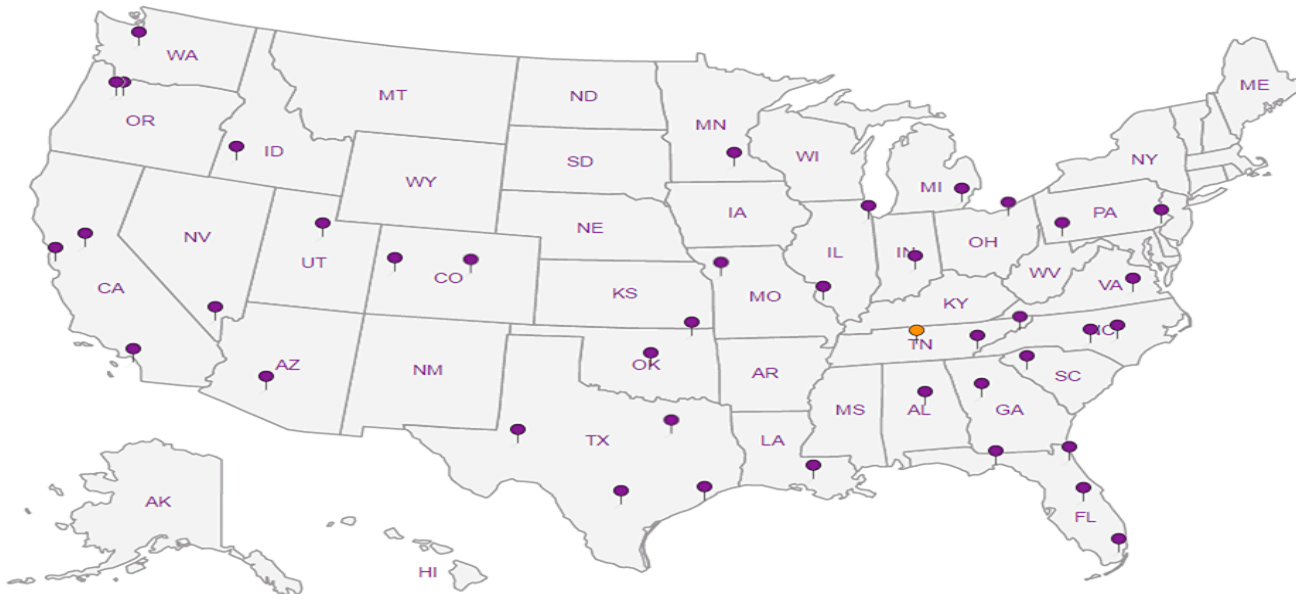
## Third Party Federal Accreditations

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

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

**Arcadis - Chevron - WA**

1100 Olive Way  
Suite 800  
Seattle WA 98101

Report to:  
**Komal Dixit**

Project Description:  
211556

City/State Collected: **TOLEDO, WA**

Please Circle:  
PT MT CT ET

Billing Information:  
Attn: Accounts Payable  
630 Plaza Dr., Ste. 600  
Highlands Ranch, CO 80129

Email To:  
Komal.Dixit@arcadis.com; Ada.Hamilton@arcadis.com

Chain of Custody Page 1 of 1

Pres Chk ZZ

Analysis / Container / Preservative

**Pace Analytical**  
National Center for Testing & Innovation

12065 Lebanon Rd  
Mount Juliet, TN 37122  
Phone: 615-758-5858  
Phone: 800-767-5859  
Fax: 615-758-5859



Phone: 206-325-5254


Client Project #

Lab Project #  
**CHEVARCWA-211556**

Collected by (print):  
**ALEX WONG**

Site/Facility ID #  
**101 MULFORD ROAD,**

P.O. #

Collected by (signature):  


**Rush?** (Lab MUST Be Notified)

Same Day  Five Day   
Next Day  5 Day (Rad Only)   
Two Day  10 Day (Rad Only)   
Three Day

Date Results Needed  
**STANDARD TAT**

No. of Cntrs

Immediately Packed on Ice N

Sample ID

Comp/Grab

Matrix \*

Depth

Date

Time

Remarks

Sample # (lab only)

SDG # **U1284580**

**H144**

Acctnum: **CHEVARCWA**

Template: **T176610**

Prelogin: **P805373**

PM: **110 - Brian Ford**

PB: **SV 10/29/20**

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX 8260D 40mlAmb-HCl	FF Diss Pb 6020 250mlHDPE HNO3	LF Diss Pb 6020 250mlHDPE NoPres	NWTPHDX no silica 40mlAmb-HCl-BT	NWTPHDX w/ silica 40mlAmb-HCl-BT	NWTPHGX 40mlAmb HCl	Remarks	Sample # (lab only)
QA	G	GW		201107		2	X							-01
MW-111	G	GW		201107	1236	11	X	X		X	X	X		-02
mw-112	G	GW		201107	1432	11	X	X		X	X	X		-03
mw-113	G	GW		201107	1331	11	X	X		X	X	X		-04
B-3	G	GW		201107	1139	11	X	X		X	X	X		-05
B-4	G	GW		201107	1040	11	X	X		X	X	X		-06
TPWHD-1	G	GW		201107	1500	11	X		X	X	X	X		-07

\* Matrix:  
SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Bioassay  
WW - WasteWater  
DW - Drinking Water  
OT - Other

Remarks:

pH \_\_\_\_\_ Temp \_\_\_\_\_  
Flow \_\_\_\_\_ Other \_\_\_\_\_

Samples returned via:  
 UPS  FedEx  Courier

Tracking # **9186 2504 0537**

Relinquished by: (Signature) \_\_\_\_\_ Date: **201110** Time: **1500** Received by: (Signature) **FedEx** Trip Blank Received: **2** Yes / No **NO** / MeOH **TBR**

Relinquished by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by: (Signature) \_\_\_\_\_ Temp: **20.1** °C Bottles Received: **66** If preservation required by Login: Date/Time

Relinquished by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received for lab by: (Signature) **Michelle Miller** Date: **11/11/2020** Time: **09:15** Hold: \_\_\_\_\_ Condition: **NCF / OK**

**Sample Receipt Checklist**

COC Seal Present/Intact:  Y  N  
COC Signed/Accurate:  Y  N  
Bottles arrive intact:  Y  N  
Correct bottles used:  Y  N  
Sufficient volume sent:  Y  N

If Applicable

VOA Zero Headspace:  Y  N  
Preservation Correct/Checked:  Y  N  
RAD Screen <0.5 mR/hr:  Y  N