



Mr. Steve Teel
Washington State Department of Ecology
Southwest Regional Office, Toxics Cleanup Program
300 Desmond Drive SE
Lacey, Washington 98503

Subject: **First Semiannual 2017 Groundwater Monitoring Report
Cowlitz BP / Cowlitz Food and Fuel /
Former Texaco Service Station No. 211556
101 Mulford Road
Toledo, Washington**

Dear Mr. Teel:

Leidos, Inc. (Leidos), on behalf of Chevron Environmental Management Company (CEMC), prepared this report summarizing the first semiannual 2017 groundwater monitoring event at the above-referenced site (the Site) in Toledo, Washington (Figure 1). Groundwater monitoring at the Site is being performed pursuant to the terms and conditions of Agreed Order No. DE5236.

FIELD ACTIVITIES

Gettler-Ryan, Inc. (Gettler-Ryan) conducted the groundwater monitoring field event on May 14, 2017. Gettler-Ryan measured depth-to-groundwater and checked for the presence of light non-aqueous phase liquid (LNAPL) in 17 monitoring wells at the Site. Groundwater samples were collected from 9 monitoring wells using low-flow purging and sampling techniques. Samples were submitted to Eurofins Lancaster Laboratories, Inc. for the following analyses:

- Total petroleum hydrocarbons (TPH) as gasoline-range organics (TPH-GRO) by Washington State Department of Ecology (Ecology) Method NWTPH-Gx;
- TPH as diesel-range organics (TPH-DRO) and heavy oil-range organics (TPH-HRO) by Ecology Method NWTPH-Dx extended;
- TPH-DRO and TPH-HRO by Ecology Method NWTPH-Dx extended with silica-gel cleanup;
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX), by United States Environmental Protection Agency (USEPA) Method 8260B; and

- Dissolved lead by USEPA Method 6020.

Purge water generated during this sampling event was treated at the Site by Gettler-Ryan using an activated carbon filtration system. A sample of the treated water (TPWHD-1) was also collected and submitted for the above-referenced analyses. Following treatment, the purge water was containerized in 55-gallon drums, which are stored in a secondary containment overpack at the Site while awaiting laboratory results and Ecology authorization for disposal by surface discharge.

Field data sheets are provided in the Gettler-Ryan groundwater monitoring and sampling data package, which is included as Attachment A.

FINDINGS

During this event, the groundwater elevation across the Site ranged from 101.27 feet in monitoring well B-2 to 99.49 feet in monitoring well MW-116 (relative to the North American Vertical Datum of 1988). Groundwater elevation data from this event indicate that groundwater flow is toward the southeast at a gradient of approximately 0.001 to 0.008 feet per foot (Figure 2). Groundwater elevations at the Site decreased an average of 0.21 feet since the previous monitoring event in November 2016.

LNAPL was not detected in any of the wells monitored.

The following analytes were detected at concentrations exceeding their respective Model Toxics Control Act (MTCA) Method A cleanup levels:

- TPH-GRO in monitoring wells B-4 and MW-111;
- TPH-DRO (analyzed with silica-gel cleanup) in monitoring well B-4;
- TPH-DRO (analyzed without silica-gel cleanup) in monitoring wells B-4 and MW-111; and
- TPH-HRO (analyzed with and without silica-gel cleanup) in monitoring wells B-4 and MW-111.

Current and historical groundwater monitoring data and laboratory analytical results are summarized in Table 1. Results of the purge-water sample analysis for sample TPWHD-1 were non-detect for all requested analyses.

Laboratory analysis reports are provided as Attachment B.

DISCUSSION

Groundwater monitoring results from this event are consistent with historical data for the Site. Long-term sampling results indicate that groundwater conditions throughout much of the Site are in compliance with drinking water quality standards. However, dissolved-phase TPH-GRO continues to be detected above the MTCA Method A cleanup level in a small portion of the Site, which is immediately downgradient of the dispenser islands and UST basin.

Groundwater monitoring at this Site will continue to be performed on a semiannual basis. Gettler-Ryan performed the second semiannual 2017 groundwater monitoring event for

the Site November 11 & 12, 2017. Results from that event will be presented in a future groundwater monitoring report.

If you have any questions or comments regarding the information presented in this report, please contact me at (425) 482-3323 or via email at russell.s.shropshire@leidos.com.

Sincerely,

Leidos, Inc.



Russell S. Shropshire, PE
Principal Engineer

Enclosures:

Figure 1 – Vicinity Map

Figure 2 – Potentiometric Map

Table 1 – Groundwater Monitoring Data and Analytical Results

Attachment A – Groundwater Monitoring and Sampling Data Package

Attachment B – Laboratory Analysis Report

cc: Mr. Mark Horne – CEMC (electronically via email)
Mr. Charles Vineyard (electronically via email)
Mr. John Houlihan – Houlihan Law (electronically via email)
Project File

REPORT LIMITATIONS

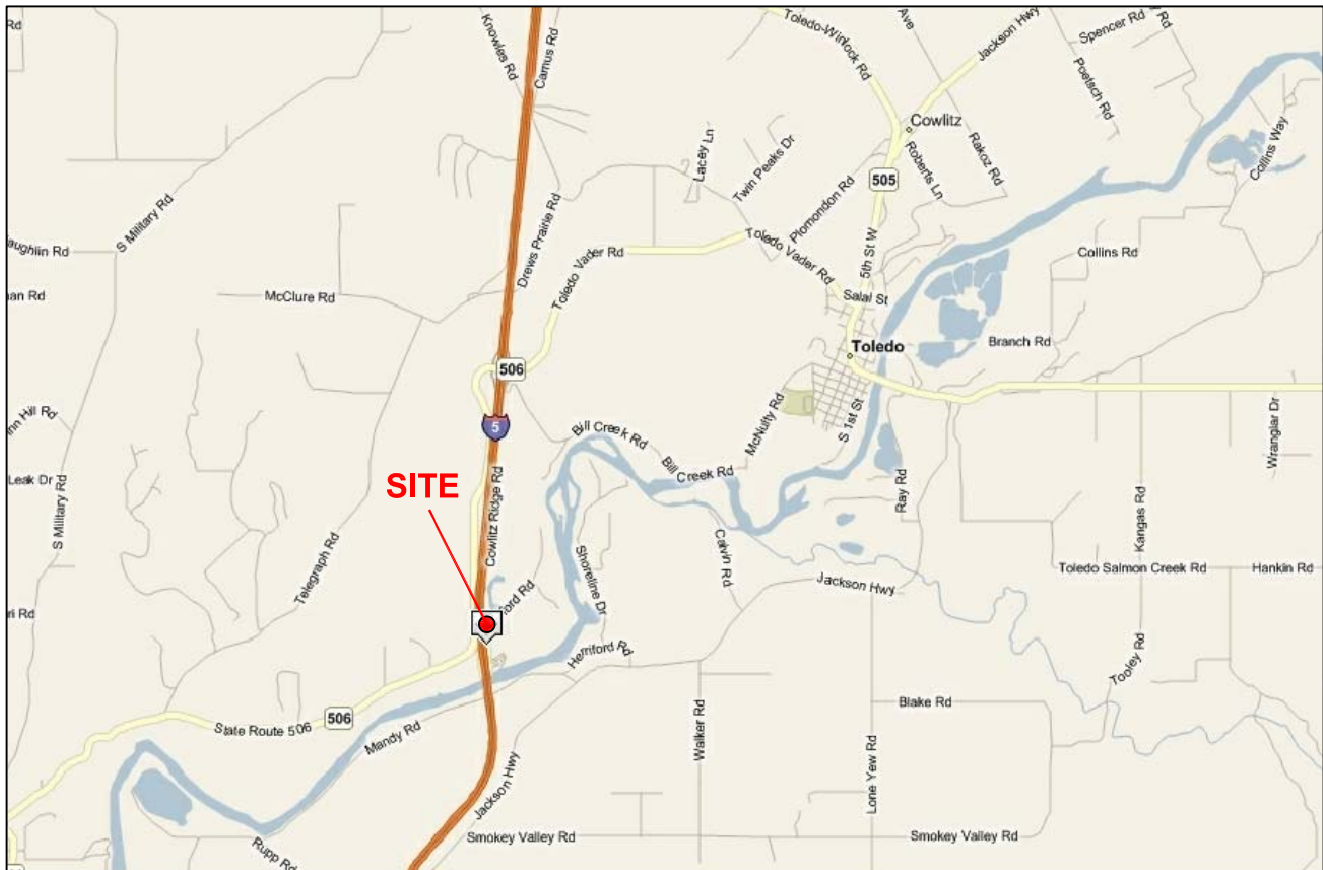
This technical document was prepared on behalf of CEMC and is intended for its sole use and for use by the local, state, or federal regulatory agency that the technical document was sent to by Leidos. Any other person or entity obtaining, using, or relying on this technical document hereby acknowledges that they do so at their own risk, and Leidos shall have no responsibility or liability for the consequences thereof.

Site history and background information provided in this technical document are based on sources that may include interviews with environmental regulatory agencies and property management personnel and a review of acquired environmental regulatory agency documents and property information obtained from CEMC and others. Leidos has not made, nor has it been asked to make, any independent investigation concerning the accuracy, reliability, or completeness of such information beyond that described in this technical document.

Recognizing reasonable limits of time and cost, this technical document cannot wholly eliminate uncertainty regarding the vertical and lateral extent of impacted environmental media.

Opinions and recommendations presented in this technical document apply only to site conditions and features as they existed at the time of Leidos site visits or site work and cannot be applied to conditions and features of which Leidos is unaware and has not had the opportunity to evaluate.

All sources of information on which Leidos has relied in making its conclusions (including direct field observations) are identified by reference in this technical document or in appendices attached to this technical document. Any information not listed by reference or in appendices has not been evaluated or relied on by Leidos in the context of this technical document. The conclusions, therefore, represent our professional opinion based on the identified sources of information.

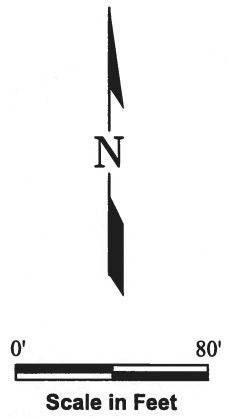
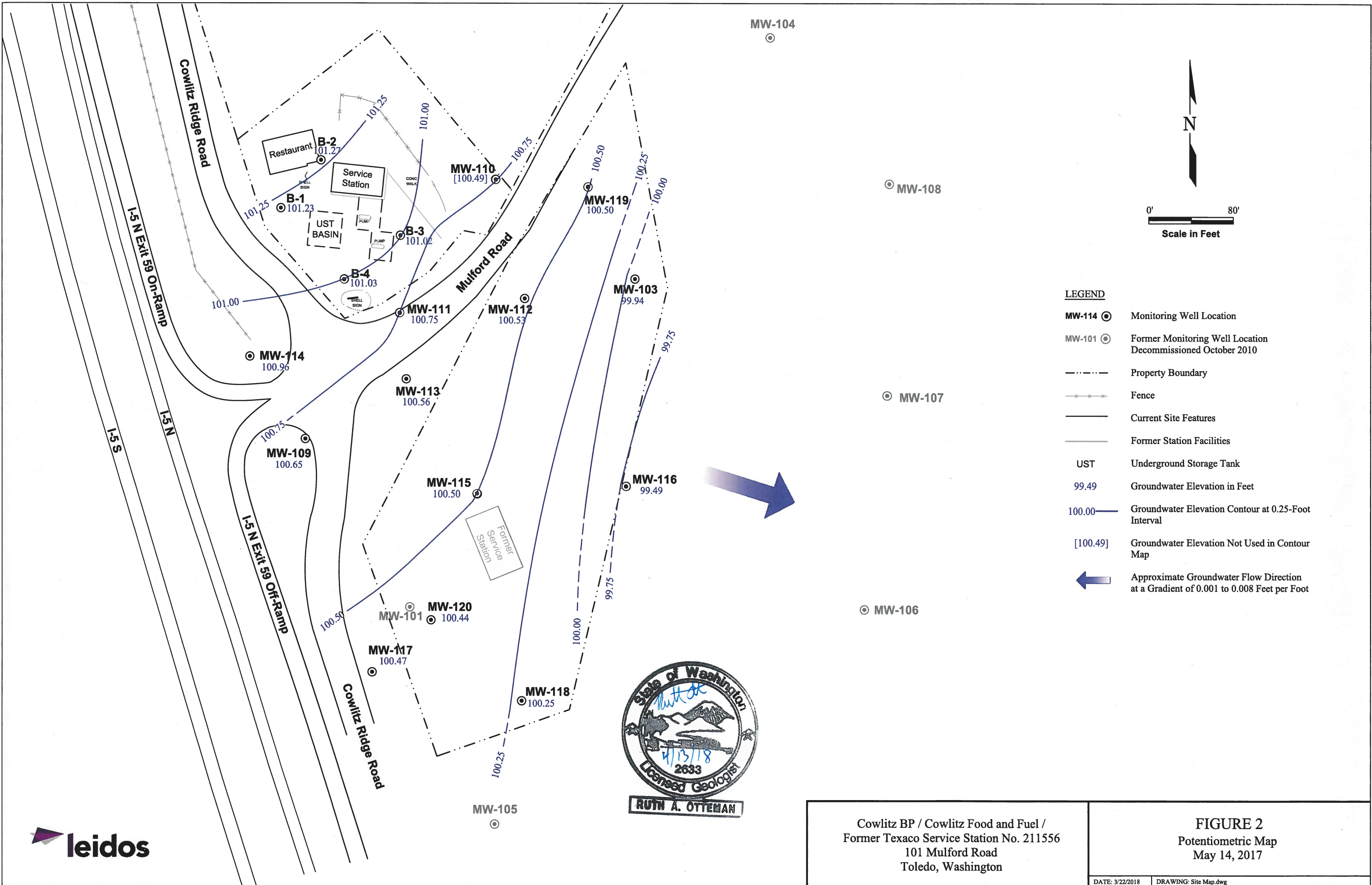


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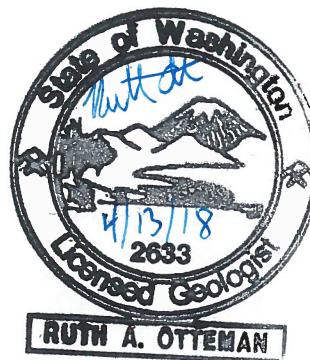
FIGURE 1
Vicinity Map

DATE: 2/21/2014

DRAWING: 211556_VM.dwg



- LEGEND**
- MW-114 ● Monitoring Well Location
 - MW-101 ● Former Monitoring Well Location Decommissioned October 2010
 - - - - - Property Boundary
 - x - x - Fence
 - Current Site Features
 - Former Station Facilities
 - UST Underground Storage Tank
 - 99.49 Groundwater Elevation in Feet
 - 100.00 Groundwater Elevation Contour at 0.25-Foot Interval
 - [100.49] Groundwater Elevation Not Used in Contour Map
 - ← Approximate Groundwater Flow Direction at a Gradient of 0.001 to 0.008 Feet per Foot



RUTH A. OTTEMAN

Cowlitz BP / Cowlitz Food and Fuel /
 Former Texaco Service Station No. 211556
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FIGURE 2
 Potentiometric Map
 May 14, 2017

DATE: 3/22/2018 | DRAWING: Site Map.dwg



TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (ft.)	TPH-DRO ⁴	TPH-HRO ⁴	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead
MW-103															
2/14/91		107.81	--	8.08	--	99.73	--	--	--	--	--	--	--	--	--
2/18/92		107.81	--	8.08	--	99.73	--	--	--	--	--	--	--	--	--
3/9/92		107.81	--	7.80	--	100.01	--	<50	--	--	--	--	--	--	--
3/13/92		107.81	--	8.08	--	99.73	<250	<250	<50	--	--	--	--	--	--
4/21/92		107.81	--	7.78	--	100.03	--	--	<50	--	--	--	--	--	--
3/3/94		107.81	--	--	--	--	<250	<250	<50	<13	--	--	--	--	--
6/13/95		107.81	--	8.55	--	99.26	<250	<250	<50	--	--	--	--	--	<3.0
8/22/95		107.81	--	--	--	--	<250	<250	<50	--	--	--	--	--	<2.0
8/23/95		107.81	--	8.91	--	98.90	<250	<250	<50	--	--	--	--	--	<2.0
11/28/95		107.81	--	7.30	--	100.51	<250	<250	<50	--	--	--	--	--	<2.0
3/12/96		107.81	--	8.03	--	99.78	<250	<250	<50	--	--	--	--	--	<2.0
6/26/96		107.81	--	8.67	--	99.14	<250	<250	<50	--	--	--	--	--	<2.0
10/9/96		107.81	--	8.82	--	98.99	<250	<250	<50	--	--	--	--	--	<2.0
2/12/97		107.81	--	7.81	--	100.00	<250	<250	<50	--	--	--	--	--	<2.0
4/22/97		107.81	--	7.42	--	100.39	<250	<250	<50	--	--	--	--	--	<2.0
8/5/97		107.81	--	8.83	--	98.98	257	110	257	--	--	--	--	--	<2.0
11/11/97		107.81	--	9.01	--	98.80	<250	<250	<50	--	--	--	--	--	<2.0
2/11/98		107.81	--	8.03	--	99.78	<250	<250	<50	--	--	--	--	--	<2.0
5/28/98		107.81	--	8.17	--	99.64	<250	<250	<50	--	--	--	--	--	2.84
8/20/98		107.81	--	9.21	--	98.60	<250	<250	<50	--	--	--	--	--	<1.0
11/19/98		107.81	--	9.03	--	98.78	<250	<250	<50	--	--	--	--	--	<1.0
3/11/99		107.81	--	7.51	--	100.30	<250	<250	<50	--	--	--	--	--	<1.0
5/25/99		107.81	--	8.51	--	99.30	<250	<250	<50	--	--	--	--	--	--
8/17/99		107.81	--	8.93	--	98.88	<250	<250	<50	--	--	--	--	--	<1.0
11/19/99		107.81	--	7.18	--	100.63	<250	<250	<80	--	--	--	--	--	<1.0
3/9/00		107.81	--	7.48	--	100.33	<250	<250	<80	--	--	--	--	--	<1.0
6/13/00		107.81	--	8.29	--	99.52	<250	<250	<80	--	--	--	--	--	<1.0
9/26/00		107.81	--	9.05	--	98.76	<250	<250	--	--	--	--	--	--	<1.0
12/13/00		107.81	--	8.65	--	99.16	<250	<250	--	--	--	--	--	--	<1.0
2/28/01		107.81	--	8.34	--	99.47	<250	<250	89	--	--	--	--	--	<1.0
5/2/01		107.81	--	8.12	--	99.69	<250	<250	214	--	--	--	--	--	<1.0
10/30/02		107.81	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
1/23/03		107.81	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
4/18/03		107.81	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
7/11/03		107.81	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
10/31/03		107.81	UNABLE TO LOCATE - COVERED BY SOIL			--	--	--	--	--	--	--	--	--	--

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Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (ft.)	TPH-DRO ⁴	TPH-HRO ⁴	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead
MW-103 (cont.)															
12/30/03		107.81	--	7.32	0.00	100.49	<50	<85	<110	<0.5	<0.5	<0.5	<1.5	--	<1.2
5/3/04		107.81	UNABLE TO LOCATE - COVERED BY SOIL												
7/20/04		107.81	--	9.09	0.00	98.72	<250	<500	<50.0	<0.500	<0.500	<0.500	<1.00	--	--
10/7/04		107.81	--	8.66	0.00	99.15	<160	<50	--	--	--	--	--	--	--
1/27/05		107.81	--	7.95	0.00	99.86	<83	<83	<48	--	--	--	--	--	--
4/12/05		107.81	--	7.65	0.00	100.16	<78	<78	<48	--	--	--	--	--	--
7/18/05		107.81	--	8.76	0.00	99.05	<79	<79	<48	--	--	--	--	--	--
10/21/05		107.81	--	8.87	0.00	98.94	<79	<79	<48	--	--	--	--	--	--
9/5/07		107.81	UNABLE TO LOCATE												
5/27-28/08		107.81	UNABLE TO LOCATE												
8/27-29/08		107.81	UNABLE TO LOCATE												
11/17-19/08		107.81	UNABLE TO LOCATE												
2/16-18/09		107.81	UNABLE TO LOCATE												
5/4-6/09		107.81	UNABLE TO LOCATE												
8/19-21/09		107.81	UNABLE TO LOCATE												
11/18-20/09		107.81	UNABLE TO LOCATE												
2/8-10/10		107.81	UNABLE TO LOCATE												
5/12-13/10		107.81	UNABLE TO LOCATE												
08/12/10	LFP	107.81	--	8.90	0.00	98.91	30	120	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.11
11/3-4/10		107.81	--	7.69	0.00	100.12	<29	91	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.17
2/3-4/11	LFP	107.81	--	7.99	0.00	99.82	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.22
05/24/11	LFP	107.81	--	8.25	0.00	99.56	30	340	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.13
8/23-24/11	LFP	107.81	UNABLE TO LOCATE												
11/7-9/11	LFP	107.81	--	8.90	0.00	98.91	<29	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.12
2/6-8/12	LFP	107.81	--	7.80	0.00	100.01	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
5/2-4/12	LFP	107.81	--	8.05	0.00	99.76	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.083
8/1-3/12	LFP	107.81	--	8.95	0.00	98.86	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.088
11/26-28/12	LFP	107.81	--	7.36	0.00	100.45	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.047
02/4-6/13	LFP	107.81	--	7.85	0.00	99.96	<28	<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.087
5/6-8/13	LFP	107.81	--	8.60	0.00	99.21	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.13
9/9-13/13	LFP	107.81	--	8.55	0.00	99.26	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.11
11/18-21/13	LFP	107.81	--	7.62	0.00	100.19	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.21
2/4-11/14	LFP	107.81	--	8.36	0.00	99.45	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.11
6/12-14/14	LFP	107.81	INACCESSIBLE			--	--	--	--	--	--	--	--	--	--

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Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (ft.)	TPH-DRO ⁴	TPH-HRO ⁴	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead
MW-103 (cont.)															
8/18-21/14	LFP	107.81	--	6.81	0.00	101.00	<29/<29	<68/<68	62	<0.5	<0.5	<0.5	<0.5	<0.5	0.18
11/19-20/14	LFP	107.81	--	8.41	0.00	99.40	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082
2/17-20/15	LFP	107.81	--	7.83	0.00	99.98	<29/<29	<69/<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082
5/11-15/15	LFP	107.81	--	8.77	0.00	99.04	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.12
8/10-11/15	LFP	107.81	--	9.35	0.00	98.46	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.13
11/16-18/15	LFP	107.81	--	6.67	0.00	101.14	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.00
05/13-14/16	LFP	107.81	--	8.60	0.00	99.21	WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY								
11/14/16	LFP	107.81	--	7.83	0.00	99.98	WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY								
05/14/17	LFP	107.81	--	7.87	0.00	99.94	WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY								
MW-109															
3/13/92		107.35	--	7.72	0.00	99.63	--	--	<50	--	--	--	--	--	--
4/21/92		107.35	--	7.42	0.00	99.93	--	--	--	--	--	--	--	--	--
3/3/94		107.35	--	--	0.00	--	900	1,500	4,900	--	--	--	--	--	--
8/22/95		107.35	--	8.57	0.00	98.78	2,900	2,400	<50	--	--	--	--	--	--
11/28/95		107.35	--	5.87	0.00	101.48	480	1,900	72	--	--	--	--	--	<2.0
3/12/96		107.35	--	7.16	0.00	100.19	<250	<750	<50	--	--	--	--	--	<2.0
6/26/96		107.35	--	8.24	0.00	99.11	554	<750	<50	--	--	--	--	--	<2.0
10/9/96		107.35	--	8.54	0.00	98.81	405	<750	<50	--	--	--	--	--	<2.0
2/12/97		107.35	--	5.82	0.00	101.53	393	1,290	<50	--	--	--	--	--	<2.0
4/22/97		107.35	--	7.10	0.00	100.25	356	1,270	<50	--	--	--	--	--	<2.0
8/5/97		107.35	--	8.81	0.00	98.54	560	1,690	<50	--	--	--	--	--	<2.0
11/11/97		107.35	--	7.57	0.00	99.78	269	780	<50	--	--	--	--	--	<2.0
2/11/98		107.35	--	6.20	0.00	101.15	387	1,700	<50	--	--	--	--	--	<2.0
5/28/98		107.35	--	7.62	0.00	99.73	332	920	<50	--	--	--	--	--	2.25
8/20/98		107.35	--	9.00	0.00	98.35	520	1,450	<50	--	--	--	--	--	<1.0
11/19/98		107.35	--	8.21	0.00	99.14	409	1,130	<50	--	--	--	--	--	<1.3
3/11/99		107.35	--	6.94	0.00	100.41	539	2,000	<80	--	--	--	--	--	<1.0
5/25/99		107.35	--	8.13	0.00	99.22	916	--	<80	--	--	--	--	--	--
8/17/99		107.35	--	8.66	0.00	98.69	1,520	7,770	<80	--	--	--	--	--	<1.0
11/19/99		107.35	--	6.65	0.00	100.70	<250	--	<80	--	--	--	--	--	<1.0
3/9/00		107.35	--	5.67	0.00	101.68	<250	<500	<80	--	--	--	--	--	<1.0
6/13/00		107.35	--	6.65	0.00	100.70	<250	<500	<80	--	--	--	--	--	<1.0
9/26/00		107.35	--	8.36	0.00	98.99	<250	<500	--	--	--	--	--	--	<1.0
12/13/00		107.35	--	7.72	0.00	99.63	<250	<500	--	--	--	--	--	--	<1.0
2/28/01		107.35	--	7.44	0.00	99.91	<250	<500	<80	--	--	--	--	--	<1.0
5/2/01		107.35	--	9.50	0.00	97.85	<250	<500	<80	--	--	--	--	--	<1.0

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Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (ft.)	TPH-DRO ⁴	TPH-HRO ⁴	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead
MW-109 (cont.)															
10/30/02		107.35	--	8.69	0.00	98.66	<250	<500	<80	<0.500	<0.500	<0.500	<1.0	--	6.44
1/23/03		107.35	MONITORED/SAMPLED ANNUALLY												
4/18/03		107.35	MONITORED/SAMPLED ANNUALLY												
7/11/03		107.35	MONITORED/SAMPLED ANNUALLY												
10/31/03		107.35	--	7.63	0.00	99.72	<250	<500	<50	<0.500	<0.500	<0.500	<1.0	--	<1.0 ⁵
12/31/03		107.35	--	6.42	0.00	100.93	<50	440	2,300	<0.5	<0.5	<0.5	<1.5	--	<1.2
5/3/04		107.35	MONITORED/SAMPLED ANNUALLY												
7/20/04		107.35	MONITORED/SAMPLED ANNUALLY												
10/6/04		107.35	--	7.71	0.00	99.64	<81	110	<50	--	--	--	--	--	--
10/24/05		107.35	--	7.93	0.00	99.42	<81	<100	<48	--	--	--	--	--	--
9/5/07		107.35	--	8.45	0.00	98.90	<79	240	91	--	--	--	--	--	0.15
5/27-28/08		107.35	--	7.86	0.00	99.49	<79	<98	<50	<0.5	0.6	<0.5	<0.5	<0.5	<0.050
8/27-29/08	LFP	107.35	--	7.92	0.00	99.43	<79	<99	<50	<5	<5	<0.5	<0.5	<0.5	<0.050
11/17-19/08	LFP	107.35	--	6.60	0.00	100.75	35	110	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
2/16-18/09	LFP	107.35	--	7.59	0.00	99.76	53	130	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.093
5/4-6/09	LFP	107.35	--	7.09	0.00	100.26	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
8/19-21/09	LFP	107.35	--	8.35	0.00	99.00	49	290	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.15
11/18-20/09	LFP	107.35	--	5.74	0.00	101.61	98	340	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.15
2/8-10/10	LFP	107.35	--	7.04	0.00	100.31	31	<72	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
5/12-13/10	LFP	107.35	--	7.41	0.00	99.94	60	270	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
08/11/10	LFP	107.35	--	8.90	0.00	98.45	34	300	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.1
11/3-4/10	LFP	107.35	--	6.37	0.00	100.98	65	430	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052
2/3-4/11	LFP	107.35	--	7.12	0.00	100.23	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052
05/23/11	LFP	107.35	--	7.26	0.00	100.09	47	520	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052
8/23-24/11	LFP	107.35	--	8.35	0.00	99.00	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.12
11/7-9/11	LFP	107.35	--	8.00	0.00	99.35	<300	890	84	<0.5	<0.5	0.6	<0.5	<0.5	0.19
2/6-8/12	LFP	107.35	--	6.85	0.00	100.50	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
5/2-4/12	LFP	107.35	--	6.90	0.00	100.45	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
8/1-3/12	LFP	107.35	--	8.13	0.00	99.22	<30	<71	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.034
11/26-28/12	LFP	107.35	--	6.42	0.00	100.93	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.047
02/4-6/13	LFP	107.35	--	6.95	0.00	100.40	<28	<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073
05/6-8/13	LFP	107.35	--	7.35	0.00	100.00	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073
9/9-13/13	LFP	107.35	--	7.34	0.00	100.01	<31/<31	<72/<72	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.62
11/18-22/13	LFP	107.35	--	8.12	0.00	99.23	<29/68	<67/170	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085
02/4-11/14	LFP	107.35	--	7.33	0.00	100.02	<30/<30	<70/<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.20
6/12-14/14	LFP	107.35	--	7.31	0.00	100.04	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-- ⁸

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (ft.)	TPH-DRO ⁴	TPH-HRO ⁴	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead		
MW-109 (cont.)																	
8/18-21/14	LFP	107.35	--	9.93	0.00	97.42	INSUFFICIENT WATER										
11/19-20/14	LFP	107.35	--	7.38	0.00	99.97	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082		
2/17-20/15	LFP	107.35	--	6.91	0.00	100.44	<30/<30	<69/<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082		
5/11-15/15	LFP	107.35	--	7.29	0.00	100.06	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.12		
8/10-11/15	LFP	107.35	--	8.62	0.00	98.73	<29/130	210/640	<50	<0.5	<0.5	<0.5	<0.5	<0.5	136		
11/16-18/15	LFP	107.35	--	5.34	0.00	102.01	<28/36	<66/97	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.0028		
5/13-14/16	LFP	107.35	--	7.76	0.00	99.59	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	--	<0.13		
11/14/16	LFP	107.35	--	6.40	0.00	100.95	<28/77	<65/65	<50	<0.5	<0.5	<0.5	<0.5	--	0.55		
05/14/17	LFP	107.35	--	6.70	0.00	100.65	<28/45	<66/260	<50	<0.5	<0.5	<0.5	<0.5	--	<0.090		
MW-110																	
8/22/95		108.89	--	9.62	0.00	99.27	400	<750	11,000	--	--	--	--	--	--		
11/28/95		108.89	--	8.08	0.00	100.81	540	<750	6,000	--	--	--	--	--	14		
3/12/96		108.89	--	8.74	0.00	100.15	340	<750	3,600	--	--	--	--	--	14		
6/26/96		108.89	--	9.41	0.00	99.48	274	<750	2,750	--	--	--	--	--	8.14		
10/9/96		108.89	--	9.67	0.00	99.22	<250	<750	1,160	--	--	--	--	--	5.96		
2/12/97		108.89	--	8.42	0.00	100.47	393	<750	1,830	--	--	--	--	--	11.7		
4/22/97		108.89	--	8.18	0.00	100.71	371	<750	1,950	--	--	--	--	--	7.27		
8/5/97		108.89	--	9.80	0.00	99.09	282	<750	1,480	--	--	--	--	--	3.16		
11/11/97		108.89	--	8.57	0.00	100.32	659	<750	2,330	--	--	--	--	--	22.9		
2/11/98		108.89	--	8.54	0.00	100.35	390	<750	2,040	--	--	--	--	--	15.3		
5/28/98		108.89	--	8.69	0.00	100.20	324	<750	1,350	--	--	--	--	--	15.5		
8/20/98		108.89	--	10.91	0.00	97.98	<250	<750	812	--	--	--	--	--	1.55		
11/19/98		108.89	--	9.51	0.00	99.38	258	<750	637	--	--	--	--	--	7.27		
3/11/99		108.89	--	8.09	0.00	100.80	486	<500	2,350	--	--	--	--	--	11		
5/25/99		108.89	--	9.28	0.00	99.61	<250	--	2,950	--	--	--	--	--	--		
8/17/99		108.89	--	9.81	0.00	99.08	<250	<500	749	--	--	--	--	--	2.2		
11/19/99		108.89	--	7.77	0.00	101.12	453	--	2,030	--	--	--	--	--	32.4		
3/9/00		108.89	--	8.15	0.00	100.74	<250	<500	3,780	--	--	--	--	--	9.59		
6/13/00		108.89	--	8.81	0.00	100.08	<250	<500	2,330	--	--	--	--	--	5.45		
9/26/00		108.89	--	9.98	0.00	98.91	<250	<500	--	--	--	--	--	--	2.83		
12/13/00		108.89	--	9.37	0.00	99.52	<250	<500	1,340	--	--	--	--	--	4.15		
2/28/01		108.89	--	9.07	0.00	99.82	<250	<500	1,800	--	--	--	--	--	6.32		
5/2/01		108.89	--	8.62	0.00	100.27	<250	<500	905	--	--	--	--	--	4.23		
10/30/02		108.89	--	10.28	0.00	98.61	<250	<500	3,880	<2.50	<2.50	22.5	108	--	6.36		
1/23/03		108.89	--	8.74	0.00	100.15	<250	<500	1,190	0.902	0.585	9.83	13.9	--	26.5 ⁵		
4/18/03		108.89	--	8.40	0.00	100.49	<250	<500	499	1.94	<0.500	0.799	1.65	--	16.8 ⁵		

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (ft.)	TPH-DRO ⁴	TPH-HRO ⁴	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead
MW-110 (cont.)															
7/11/03		108.89	--	9.99	0.00	98.90	<250	<500	586	1.76	<0.500	1.08	1.11	--	2.11 ³
10/31/03		108.89	--	9.25	0.00	99.64	<250	<500	184	0.529	<0.500	<0.500	<1.0	--	<1.0 ³
12/31/03		108.89	--	7.94	0.00	100.95	1,800	410	<99	<10	<2.0	23	25	--	17.3
5/3/04		108.89	--	9.56	0.00	99.33	<250	<500	454	1.8	<0.500	<0.500	<1.0	--	3.86 ³
7/20/04		108.89	--	10.03	0.00	98.86	<250	<500	308	0.893	<0.500	<0.500	<1.0	--	<1.0 ³
10/6/04		108.89	--	9.38	0.00	99.51	<79	<99	160	--	--	--	--	--	--
1/27/05		108.89	--	8.65	0.00	100.24	<81	<100	150	--	--	--	--	--	--
4/12/05		108.89	--	8.22	0.00	100.67	370	<100	290	--	--	--	--	--	--
7/18/05		108.89	--	9.50	0.00	99.39	<79	<99	100	--	--	--	--	--	--
7/18/05 (D)		108.89	--	9.50	0.00	99.39	<79	<99	100	--	--	--	--	--	--
10/20/05		108.89	--	9.62	0.00	99.27	82	100	110	--	--	--	--	--	--
9/4/07		108.89	--	10.08	0.00	98.81	<150	220	290	--	--	--	--	--	5
5/27-28/08	LFP	108.89	--	9.52	0.00	99.37	<76	<96	210	<0.5	<0.5	9	0.7	<0.5	9.1
8/27-29/08	LFP	108.89	--	9.60	0.00	99.29	120	<100	240	<5	<5	<5	<5	<5	1.5
11/17-19/08	LFP	108.89	--	8.17	0.00	100.72	410	<68	150	<0.5	<0.5	<0.5	<0.5	<0.5	34.1
2/16-18/09	LFP	108.89	--	9.23	0.00	99.66	58	170	<50	<0.5	<0.5	<0.5	<0.5	<0.5	27.7
5/4-6/09	LFP	108.89	--	8.60	0.00	100.29	380	670	96	<0.5	<0.5	<0.5	<0.5	<0.5	5.4
8/19-21/09	LFP	108.89	--	9.98	0.00	98.91	<30	76	69	<0.5	<0.5	<0.5	<0.5	<0.5	0.63
11/18-20/09	LFP	108.89	--	6.97	0.00	101.92	200	<67	670	<0.5	<0.5	2	<0.5	<0.5	5
2/8-10/10	LFP	108.89	--	8.64	0.00	100.25	51	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	12.5
5/12-13/10	LFP	108.89	--	9.08	0.00	99.81	39	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	4.2
08/11/10	LFP	108.89	--	9.75	0.00	99.14	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.4
11/3-4/10	LFP	108.89	--	8.15	0.00	100.74	49	98	<50	<0.5	<0.5	<0.5	<0.5	<0.5	2.5
2/3-4/11	LFP	108.89	--	8.77	0.00	100.12	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.72
05/24/11	LFP	108.89	--	8.90	0.00	99.99	<29	180	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.43
8/23-24/11	LFP	108.89	--	9.96	0.00	98.93	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.62
11/7-9/11	LFP	108.89	--	9.30	0.00	99.59	<31	<72	95	<0.5	<0.5	<0.5	<0.5	<0.5	0.22
2/6-8/12	LFP	108.89	--	8.40	0.00	100.49	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.22
5/2-4/12	LFP	108.89	--	8.40	0.00	100.49	<31	<72	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.23
8/1-3/12	LFP	108.89	--	8.46	0.00	100.43	50	<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.093
11/26-28/12	LFP	108.89	--	7.95	0.00	100.94	<29	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.30
02/4-6/13	LFP	108.89	--	8.38	0.00	100.51	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073
05/6-8/13	LFP	108.89	--	9.52	0.00	99.37	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.23
9/9-13/13	LFP	108.89	--	9.03	0.00	99.86	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.39
11/18-21/13	LFP	108.89	--	8.22	0.00	100.67	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.33
02/4-11/14	LFP	108.89	--	8.98	0.00	99.91	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.16

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (ft.)	TPH-DRO ⁴	TPH-HRO ⁴	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead
MW-110 (cont.)															
6/12-14/14	LFP	108.89	--	9.50	0.00	99.39	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.22
8/18-21/14	LFP	108.89	--	8.53	0.00	100.36	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.10
11/19-20/14	LFP	108.89	--	9.08	0.00	99.81	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.94
2/17-20/15	LFP	108.89	--	8.39	0.00	100.50	<30/<30	<70/<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082
5/11-15/15	LFP	108.89	--	9.51	0.00	99.38	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.46
8/10-11/15	LFP	108.89	--	10.23	0.00	98.66	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.88
11/16-18/15	LFP	108.89	--	6.54	0.00	102.35	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.00
5/13-14/16	LFP	108.89	--	9.04	0.00	99.85	WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY								
11/14/16	LFP	108.89	--	8.21	0.00	100.68	WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY								
05/14/17	LFP	108.89	--	8.40	0.00	100.49	WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY								
MW-111															
8/22/95		107.12	--	7.86	0.00	99.26	360	<750	33,000	--	--	--	--	--	--
11/28/95		107.12	--	6.14	0.00	100.98	640	<750	17,000	--	--	--	--	--	10
3/12/96		107.12	--	6.84	0.00	100.28	290	<750	11,000	--	--	--	--	--	7.6
6/26/96		107.12	--	7.55	0.00	99.57	479	<750	7,690	--	--	--	--	--	4.8
10/9/96		107.12	--	7.81	0.00	99.31	256	<750	3,560	--	--	--	--	--	4.7
2/12/97		107.12	--	6.52	0.00	100.60	631	<750	17,200	--	--	--	--	--	8.7
4/22/97		107.12	--	6.31	0.00	100.81	920	<750	13,800	--	--	--	--	--	5.3
8/5/97		107.12	--	7.90	0.00	99.22	444	<750	4,290	--	--	--	--	--	3.5
11/11/97		107.12	--	6.70	0.00	100.42	770	<750	14,300	--	--	--	--	--	12.4
2/11/98		107.12	--	6.65	0.00	100.47	587	<750	13,600	--	--	--	--	--	8.3
5/28/98		107.12	--	6.89	0.00	100.23	526	<750	11,200	--	--	--	--	--	16.6
8/20/98		107.12	--	9.08	0.00	98.04	637	<750	5,950	--	--	--	--	--	1.7
11/19/98		107.12	--	7.60	0.00	99.52	3,890	<750	10,500,000	--	--	--	--	--	2.2
1/22/99		107.12	--	5.36	0.00	101.76	--	--	19,000	--	--	--	--	--	--
3/11/99		107.12	--	6.19	0.00	100.93	611	<500	6,910	--	--	--	--	--	6.3
5/25/99		107.12	--	7.43	0.00	99.69	388	--	8,500	--	--	--	--	--	4.2
8/17/99		107.12	--	7.98	0.00	99.14	547	<500	17,600	--	--	--	--	--	3
11/19/99		107.12	--	5.87	0.00	101.25	547	--	27,900	--	--	--	--	--	14.4
3/9/00		107.12	--	6.27	0.00	100.85	12,400	646	20,800	--	--	--	--	--	11.8
6/13/00		107.12	--	6.91	0.00	100.21	7,670	<500	29,600	--	--	--	--	--	12.8
9/26/00		107.12	--	8.37	0.00	98.75	--	--	--	--	--	--	--	--	--
12/13/00		107.12	--	7.65	0.00	99.47	13,800	<500	23,100	--	--	--	--	--	4.1
2/28/01		107.12	--	7.26	0.00	99.86	3,740	<500	16,400	--	--	--	--	--	5.6
5/2/01		107.12	--	6.89	0.00	100.23	7,530	<500	17,700	--	--	--	--	--	10.7
10/30/02		107.12	8.42	8.70	0.28	98.64	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL					--	--	--	--

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (ft.)	TPH-DRO ⁴	TPH-HRO ⁴	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead
MW-111 (cont.)															
1/23/03		107.12	6.95	6.99	0.04	100.16	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL					--	--	--	--
4/18/03		107.12	6.83	6.89	0.06	100.28	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL					--	--	--	--
7/11/03		107.12	8.18	8.25	0.07	98.93	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL					--	--	--	--
10/31/03		107.12	7.45	7.48	0.03	99.66	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL					--	--	--	--
12/31/03		107.12	--	6.40	0.00	100.72	50,000	2,800	300	8.3	6.5	1,100	3,300	--	15.2
05/03/04		107.12	7.76	7.79	0.03	99.35	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL					--	--	--	--
7/20/04		107.12	8.10	8.16	0.06	99.01	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL					--	--	--	--
10/6/04		107.12	--	7.54	0.00	99.58	240	<100	5,700	--	--	--	--	--	--
1/27/05		107.12	--	6.79	0.00	100.33	310	<98	8,800	--	--	--	--	--	--
1/27/05(D)		107.12	--	6.79	0.00	100.33	310	<98	9,100	--	--	--	--	--	--
4/12/05		107.12	--	6.32	0.00	100.80	820	<100	10,000	--	--	--	--	--	--
4/12/05(D)		107.12	--	6.32	0.00	100.80	850	<110	10,000	--	--	--	--	--	--
7/18/05		107.12	--	7.75	0.00	99.37	460	<96	6,300	--	--	--	--	--	--
10/20/05		107.12	--	7.84	0.00	99.28	--	--	--	--	--	--	--	--	--
9/4/07		107.12	--	8.26	0.00	98.86	1,100	<220	6,800	--	--	--	--	--	2.8
9/4/07		107.12	--	--	0.00	--	<81	<100	<50	--	--	--	--	--	<0.047
5/27-28/08		107.12	--	7.64	0.00	99.48	NOT SAMPLED DUE TO OBSTRUCTION IN WELL @ 7 FEET					--	--	--	
8/27-29/08		107.12	--	7.71	0.00	99.41	NOT SAMPLED DUE TO OBSTRUCTION IN WELL @ 8 FEET					--	--	--	
11/17-19/08	LFP	107.12	--	6.27	0.00	100.85	2,300	<1,400	18,000	3	<1	300	220	<1	36.8
2/16-18/09	LFP	107.12	--	7.36	0.00	99.76	350	74	20,000	4	2	190	110	<1	8.5
5/4-6/09	LFP	107.12	--	6.62	0.00	100.50	1,200	<70	13,000	8	2	220	120	<0.5	20.1
8/19-21/09	LFP	107.12	--	8.12	0.00	99.00	780	<70	11,000	4	0.6	180	130	<0.5	5.3
11/18-20/09	LFP	107.12	--	5.42	0.00	101.70	400	<68	4,700	5	0.7	53	21	<0.5	6.3
2/08-10/10	LFP	107.12	--	6.79	0.00	100.33	2,700	<140	19,000	16	1	270	110	<0.5	18.8
5/11-13/10	LFP	107.12	--	7.25	0.00	99.87	3,400	380	21,000	10	1	300	110	<1	22.6
08/11/10	LFP	107.12	--	7.92	0.00	99.20	1,300	<700	9,200	4	<1	220	55	<1	20.2
11/3-4/10	LFP	107.12	--	6.12	0.00	101.00	1,700	640	7,000	4	<1	160	68	<1	29.5
2/3-4/11	LFP	107.12	--	6.91	0.00	100.21	2,800	<340	14,000	10	0.9	250	72	<0.5	19.9
05/24/11	LFP	107.12	--	7.03	0.00	100.09	500	130	2,700	<0.5	<0.5	65	15	<0.5	2.8
8/23-24/11	LFP	107.12	--	9.16	0.00	97.96	1,600	<69	6,900	3	<0.5	130	11	<0.5	12.2
11/7-9/11	LFP	107.12	--	7.85	0.00	99.27	4,700	<730	20,000	1	<1	140	26	<1	45.8
2/6-8/12	LFP	107.12	--	6.55	0.00	100.57	690	110	5,100	5	<0.5	140	<0.5	<0.5	22.1
5/2-4/12	LFP	107.12	--	6.50	0.00	100.62	420	<68	4,400	5	0.7	170	23	<0.5	8.9
8/1-3/12	LFP	107.12	--	7.93	0.00	99.19	620	140	6,900	0.6	<0.5	<0.5	12	<0.5	22.9
11/26-28/12	LFP	107.12	--	6.07	0.00	101.05	15,000	<3,500	5,200	4	<0.5	140	32	<0.5	36.1
02/4-6/13	LFP	107.12	--	6.53	0.00	100.59	2,300	710	7,500	<3	<3	120	24	<0.5	17.8

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GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (ft.)	TPH-DRO ⁴	TPH-HRO ⁴	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead
MW-111 (cont.)															
05/6-8/13	LFP	107.12	--	7.46	0.00	99.66	300	<67	5,500	2	<0.5	100	13	<0.5	16.6
9/9-13/13	LFP	107.12	--	7.15	0.00	99.97	330/ 3,600	<66/89	5,500	1	<0.5	110	39	<0.5	59.4
11/18-22/13	LFP	107.12	--	6.42	0.00	100.70	370/ 1,000	<66/<66	3,300	0.9	<0.5	77	13	<0.5	17.8
2/4-11/14	LFP	107.12	--	7.11	0.00	100.01	410/ 1,000	<68/<68	4,800	1	<0.5	75	7	<0.5	27.3
6/12-14/14	LFP	107.12	--	7.70	0.00	99.42	380/ 1,200	<67/83	4,200	2	<0.5	130	14	<0.5	16.1
8/18-21/14	LFP	107.12	--	8.07	0.00	99.05	310/ 1,400	<67/100	4,700	1	<0.5	49	1	<0.5	1.09
11/19-20/14	LFP	107.12	--	6.47	0.00	100.65	430/ 1,800	<69/320	6,000	2	<0.5	120	11	<0.5	45.3
2/17-20/15	LFP	107.12	--	6.57	0.00	100.55	230/ 730	<68/180	3,600	1	<0.5	44	3	<0.5	14.3
5/11-15/15	LFP	107.12	--	9.02	0.00	98.10	320/ 1,000	<66/<66	4,400	1	<0.5	71	5	<0.5	0.0202
8/10-11/15	LFP	107.12	--	8.43	0.00	98.69	470/ 2,700	<67/93	4,500	<3	<3	31	6	<3	12.5
11/16-18/15	LFP	107.12	--	4.59	0.00	102.53	150/450	<67/270	1,900	<0.5	<0.5	9	1	<0.5	0.0078
5/13-14/16	LFP	107.12	--	8.95	0.00	98.17	350/ 1,200	680/1,600	4,200	<0.5	<0.5	19	2	--	7.8
11/14/16	LFP	107.12	--	--	--	--	WELL FLOODED-UNABLE TO ACCESS						2	--	7.8
05/14/17	LFP	107.12	--	6.37	0.00	100.75	490/ 1,200	630/1,400	9,200	1	<0.5	46	3	--	10.3
MW-112															
8/22/95		107.58	--	8.42	0.00	99.16	<250	<750	480	--	--	--	--	--	--
11/28/95		107.58	--	6.73	0.00	100.85	<250	<750	150	--	--	--	--	--	5.8
3/12/96		107.58	--	7.43	0.00	100.15	<250	<750	250	--	--	--	--	--	<2.0
6/26/96		107.58	--	8.12	0.00	99.46	<250	<750	63.8	--	--	--	--	--	<2.0
10/9/96		107.58	--	8.36	0.00	99.22	<250	<750	93.1	--	--	--	--	--	2.62
2/12/97		107.58	--	7.11	0.00	100.47	322	<750	1,250	--	--	--	--	--	2.99
4/22/97		107.58	--	6.85	0.00	100.73	<250	<750	323	--	--	--	--	--	<2.0
8/5/97		107.58	--	8.45	0.00	99.13	<250	<750	124	--	--	--	--	--	<2.0
11/11/97		107.58	--	7.26	0.00	100.32	<250	<750	112	--	--	--	--	--	<2.0
2/11/98		107.58	--	7.25	0.00	100.33	<250	<750	658	--	--	--	--	--	<2.0
5/28/98		107.58	--	7.46	0.00	100.12	315	<750	713	--	--	--	--	--	10.4
8/20/98		107.58	--	9.64	0.00	97.94	<250	<750	<50	--	--	--	--	--	<1.0
11/19/98		107.58	--	8.20	0.00	99.38	<250	<750	367	--	--	--	--	--	<1.0
3/11/99		107.58	--	6.79	0.00	100.79	<250	<500	1,370	--	--	--	--	--	1.42
5/25/99		107.58	--	7.97	0.00	99.61	<250	--	<80	--	--	--	--	--	--
8/17/99		107.58	--	8.51	0.00	99.07	<250	<500	106	--	--	--	--	--	<1.6
11/19/99		107.58	--	6.46	0.00	101.12	<250	--	<80	--	--	--	--	--	<1.0
3/9/00		107.58	--	6.85	0.00	100.73	<250	<500	<80	--	--	--	--	--	<1.0
6/13/00		107.58	--	7.48	0.00	100.10	<250	<500	824	--	--	--	--	--	2.14
9/26/00		107.58	--	8.66	0.00	98.92	<250	<500	--	--	--	--	--	--	<1.0
12/13/00		107.58	--	8.07	0.00	99.51	<250	<500	<80	--	--	--	--	--	<1.0

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101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (ft.)	TPH-DRO ⁴	TPH-HRO ⁴	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead
MW-112 (cont.)															
2/28/01		107.58	--	7.77	0.00	99.81	<250	<500	<80	--	--	--	--	--	<1.0
5/2/01		107.58	--	7.31	0.00	100.27	<250	<500	710	--	--	--	--	--	1.44
10/30/02		107.58	--	8.95	0.00	98.63	<250	<500	95.7	<0.500	<0.500	<0.500	<1.00	--	2.63
1/23/03		107.58	--	7.39	0.00	100.19	<250	<500	178	<0.500	<0.500	0.730	<1.00	--	<1.0 ³
4/18/03		107.58	--	7.28	0.00	100.30	<250	<500	93.4	<0.500	<0.500	<0.500	<1.00	--	<1.0 ³
7/11/03		107.58	--	8.68	0.00	98.90	--	--	<50.0	<0.500	<0.500	<0.500	<1.00	--	<1.0 ³
10/31/03		107.58	--	8.04	0.00	99.54	<250	<500	<50.0	<0.500	<0.500	<0.500	<1.00	--	<1.0 ³
12/30/03		107.58	--	6.62	0.00	100.96	<50	<77	<97	<0.5	<0.5	<0.5	<1.5	--	<1.2
5/3/04		107.58	--	8.22	0.00	99.36	<250	<500	<50.0	<0.500	<0.500	<0.500	<1.00	--	<1.0 ³
7/20/04		107.58	--	8.69	0.00	98.89	<250	<500	<50.0	<0.500	<0.500	<0.500	<1.00	--	--
10/7/04		107.58	--	8.06	0.00	99.52	<82	<100	<50	--	--	--	--	--	--
7/18/05		107.58	--	8.26	0.00	99.32	<77	<96	<48	--	--	--	--	--	--
10/21/05		107.58	--	8.25	0.00	99.33	<82	<100	48	--	--	--	--	--	--
9/5/07		107.58	--	8.79	0.00	98.79	<79	<99	<50	--	--	--	--	--	0.52
5/27-28/08	LFP	107.58	--	8.22	0.00	99.36	<80	<100	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.24
8/27-29/08	LFP	107.58	--	8.26	0.00	99.32	<79	<99	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.92
11/17-19/08	LFP	107.58	--	6.87	0.00	100.71	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.057
2/16-18/09	LFP	107.58	--	7.92	0.00	99.66	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.51
5/4-06/09	LFP	107.58	--	7.26	0.00	100.32	120	<69	380	2	<0.5	<0.5	<0.5	<0.5	2.1
8/19-21/09	LFP	107.58	--	8.67	0.00	98.91	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.27
11/18-20/09	LFP	107.58	--	5.58	0.00	102.00	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.36
2/8-10/10	LFP	107.58	--	7.35	0.00	100.23	<29	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.46
5/12-13/10	LFP	107.58	--	7.77	0.00	99.81	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.58
08/12/10	LFP	107.58	--	8.45	0.00	99.13	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.29
11/3-4/10	LFP	107.58	--	6.85	0.00	100.73	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.19
2/3-4/11	LFP	107.58	--	8.21	0.00	99.37	49	89	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.56
05/24/11	LFP	107.58	--	7.58	0.00	100.00	<29	270	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.49
8/23-24/11	LFP	107.58	--	8.52	0.00	99.06	860	<66	72	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
11/7-9/11	LFP	107.58	--	8.35	0.00	99.23	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.24
2/6-8/12	LFP	107.58	--	7.10	0.00	100.48	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.22
5/2-4/12	LFP	107.58	--	7.20	0.00	100.38	<30	<69	68	<0.5	<0.5	<0.5	<0.5	<0.5	1.5
8/1-3/12	LFP	107.58	--	8.45	0.00	99.13	<31	<72	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.39
11/26-28/12	LFP	107.58	--	6.67	0.00	100.91	<30	<71	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.14
02/4-6/13	LFP	107.58	--	7.22	0.00	100.36	<28	<66	50	<0.5	<0.5	<0.5	<0.5	<0.5	0.64
5/6-8/13	LFP	107.58	--	8.00	0.00	99.58	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.47
9/9-13/13	LFP	107.58	--	7.71	0.00	99.87	<29/32	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.85

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Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (ft.)	TPH-DRO ⁴	TPH-HRO ⁴	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead
MW-112 (cont.)															
11/18-22/13	LFP	107.58	--	6.76	0.00	100.82	<29/33	<67/<67	68	<0.5	<0.5	<0.5	<0.5	<0.5	0.58
2/4-11/2014	LFP	107.58	--	7.67	0.00	99.91	<29/<29	<68/<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.38
6/12-14/14	LFP	107.58	INACCESSIBLE			--	--	--	--	--	--	--	--	--	--
8/18-21/14	LFP	107.58	--	8.63	0.00	98.95	<29/<29	<68/<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.36
11/19-20/14	LFP	107.58	--	7.71	0.00	99.87	<29/<29	<68/<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.13
2/17-20/15	LFP	107.58	--	7.33	0.00	100.25	<30/<30	<69/<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.083
5/11-15/15	LFP	107.58	--	8.19	0.00	99.39	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.460
8/10-11/15	LFP	107.58	--	8.90	0.00	98.68	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.200
11/16-18/15	LFP	107.58	--	5.65	0.00	101.93	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.0014
5/13-14/16	LFP	107.58	--	8.18	0.00	99.40	<28	<66	<50	<0.5	<0.5	<0.5	<0.5	--	<0.13
11/14/16	LFP	107.58	--	6.90	0.00	100.68	56	<70	<50	<0.5	<0.5	<0.5	<0.5	--	0.33
05/14/17	LFP	107.58	--	7.05	0.00	100.53	<28	<66	150	<0.5	<0.5	<0.5	<0.5	--	0.56
MW-113															
8/22/95		108.44	--	9.26	0.00	99.18	320	<750	3,100	--	--	--	--	--	--
11/28/95		108.44	--	7.55	0.00	100.89	<250	<750	180	--	--	--	--	--	<2.0
3/12/96		108.44	--	8.26	0.00	100.18	<250	<750	750	--	--	--	--	--	<2.0
6/26/96		108.44	--	8.95	0.00	99.49	<250	<750	809	--	--	--	--	--	2.43
10/9/96		108.44	--	9.21	0.00	99.23	<250	<750	494	--	--	--	--	--	2.95
2/12/97		108.44	--	7.93	0.00	100.51	<250	<750	1,600	--	--	--	--	--	<2.0
4/22/97		108.44	--	7.71	0.00	100.73	291	<750	748	--	--	--	--	--	<2.0
8/5/97		108.44	--	9.37	0.00	99.07	<250	<750	876	--	--	--	--	--	<2.0
11/11/97		108.44	--	8.04	0.00	100.40	<250	<750	<50	--	--	--	--	--	<2.0
2/11/98		108.44	--	8.02	0.00	100.42	<250	<750	76.10	--	--	--	--	--	<2.0
5/28/98		108.44	--	8.31	0.00	100.13	<250	<750	116	--	--	--	--	--	6.26
8/20/98		108.44	--	10.48	0.00	97.96	<250	<750	235	--	--	--	--	--	<1.0
11/19/98		108.44	--	9.02	0.00	99.42	<250	<750	<50	--	--	--	--	--	<1.0
3/11/99		108.44	--	7.59	0.00	100.85	<250	<750	162	--	--	--	--	--	<1.0
5/25/99		108.44	--	8.83	0.00	99.61	<250	--	321	--	--	--	--	--	--
8/17/99		108.44	--	9.34	0.00	99.10	<250	<500	265	--	--	--	--	--	1.2
11/19/99		108.44	--	7.27	0.00	101.17	<250	--	<80	--	--	--	--	--	<1.0
3/9/00		108.44	--	7.66	0.00	100.78	<250	<500	96.70	--	--	--	--	--	<1.0
6/13/00		108.44	--	8.29	0.00	100.15	<250	<500	154	--	--	--	--	--	<1.0
9/26/00		108.44	--	9.51	0.00	98.93	<250	<500	--	--	--	--	--	--	<1.0
12/13/00		108.44	--	8.91	0.00	99.53	<250	588	<80	--	--	--	--	--	<1.0
2/28/01		108.44	--	8.60	0.00	99.84	<250	<500	<80	--	--	--	--	--	<1.0
5/2/01		108.44	--	8.14	0.00	100.30	<250	<500	<80	--	--	--	--	--	<1.0

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (ft.)	TPH-DRO ⁴	TPH-HRO ⁴	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead
MW-113 (cont.)															
10/30/02		108.44	--	9.85	0.00	98.59	<250	<500	<80	<0.500	<0.500	<0.500	<1.0	--	1.55
1/23/03		108.44	--	8.29	0.00	100.15	<250	<500	<80	<0.500	<0.500	<0.500	<1.0	--	<1.0 ⁵
4/18/03		108.44	--	8.09	0.00	100.35	<250	<500	<50	<0.500	<0.500	<0.500	<1.0	--	<1.0 ⁵
7/11/03		108.44	--	9.51	0.00	98.93	<250	<500	<50	<0.500	<0.500	<0.500	<1.0	--	<1.0 ⁵
10/31/03		108.44	--	8.80	0.00	99.64	<250	<500	<50	<0.500	<0.500	<0.500	<1.0	--	<1.0 ⁵
12/31/03		108.44	--	7.44	0.00	101.00	<50	<77	<97	<0.5	<0.5	<0.5	<1.5	--	<1.2
5/3/04		108.44	--	9.14	0.00	99.30	<250	<500	<50	<0.500	<0.500	<0.500	<1.0	--	<1.0 ⁵
7/20/04		108.44	--	9.58	0.00	98.86	<250	<500	<50	<0.500	<0.500	<0.500	<1.0	--	--
10/6/04		108.44	--	8.92	DRY	--	--	--	--	--	--	--	--	--	--
1/27/05		108.44	--	8.15	0.00	--	<84	<110	<48	--	--	--	--	--	--
4/12/05		108.44	--	7.76	0.00	--	<88	<110	<48	--	--	--	--	--	--
7/18/05		108.44	--	9.11	0.00	--	<79	<98	<48	--	--	--	--	--	--
10/26/05		108.44	--	9.10	0.00	--	<82	<100	<48	--	--	--	--	--	--
9/5/07		108.44	--	9.59	0.00	98.85	<82	<100	<50	--	--	--	--	--	0.32
9/5/07 (D)		108.44	--	9.59	0.00	98.85	<82	<100	<50	--	--	--	--	--	0.32
5/27-28/08	LFP	108.44	--	9.02	0.00	99.42	<82	<100	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.16
8/27-29/08	LFP	108.44	--	9.10	0.00	99.34	<81	<100	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.19
11/17-19/08	LFP	108.44	--	7.68	0.00	100.76	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
2/16-18/09	LFP	108.44	--	8.75	0.00	99.69	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.087
5/4-6/09	LFP	108.44	--	8.28	0.00	100.16	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
8/19-21/09	LFP	108.44	--	9.50	0.00	98.94	<31	<71	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.14
11/18-20/09	LFP	108.44	--	6.39	0.00	102.05	<29	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.16
2/8-10/10	LFP	108.44	--	8.15	0.00	100.29	<29	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
5/12-13/10	LFP	108.44	--	8.60	0.00	99.84	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.093
08/12/10	LFP	108.44	--	9.29	0.00	99.15	<29	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.077
11/3-4/10	LFP	108.44	--	7.65	0.00	100.79	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052
2/3-4/11	LFP	108.44	--	8.26	0.00	100.18	<30	<71	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052
05/24/11	LFP	108.44	--	8.42	0.00	100.02	<30	330	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052
8/23-24/11	LFP	108.44	--	9.32	0.00	99.12	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.096
11/7-9/11	LFP	108.44	--	9.20	0.00	99.24	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.12
2/6-8/12	LFP	108.44	--	7.95	0.00	100.49	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
5/2-4/12	LFP	108.44	--	8.00	0.00	100.44	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
8/1-3/12	LFP	108.44	--	9.30	0.00	99.14	<31	<72	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.048
11/26-28/12	LFP	108.44	--	7.49	0.00	100.95	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.047
02/4-6/13	LFP	108.44	--	8.06	0.00	100.38	30	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073
05/6-8/13	LFP	108.44	--	8.83	0.00	99.61	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (ft.)	TPH-DRO ⁴	TPH-HRO ⁴	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead
MW-113 (cont.)															
9/9-13/13	LFP	108.44	--	8.56	0.00	99.88	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.12
11/18-21/13	LFP	108.44	--	7.74	0.00	100.70	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.11
2/4-11/14	LFP	108.44	--	6.56	0.00	101.88	<29/<29	<69/<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085
6/12-14/14	LFP	108.44	--	8.79	0.00	99.65	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085
8/18-21/14	LFP	108.44	--	9.39	0.00	99.05	<30/<30	<71/<71	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.35
11/19-20/14	LFP	108.44	--	8.59	0.00	99.85	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082
2/17-20/15	LFP	108.44	--	8.01	0.00	100.43	<30/<30	<70/<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082
5/11-15/15	LFP	108.44	--	9.08	0.00	99.36	<29/<29	<67/<67	75	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082
8/10-11/15	LFP	108.44	--	9.28	0.00	99.16	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.13
11/16-18/15	LFP	108.44	--	5.99	0.00	102.45	<29/<29	<68/<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.00019
5/13-14/16	LFP	108.44	--	8.95	0.00	99.49	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	--	<0.13
11/14/16	LFP	108.44	--	7.73	0.00	100.71	57	<66	<50	<0.5	<0.5	<0.5	<0.5	--	<0.090
05/14/17	LFP	108.44	--	7.88	0.00	100.56	<28	<66	<50	<0.5	<0.5	<0.5	<0.5	--	<0.090
MW-114															
8/22/95		106.89	--	7.47	0.00	99.42	<250	<750	<50	--	--	--	--	--	--
11/28/95		106.89	--	5.83	0.00	101.06	<250	<750	<50	--	--	--	--	--	<2.0
3/12/96		106.89	--	6.39	0.00	100.50	<250	<750	<50	--	--	--	--	--	<2.0
6/26/96		106.89	--	7.11	0.00	99.78	<250	<750	<50	--	--	--	--	--	<2.0
10/9/96		106.89	--	7.42	0.00	99.47	<250	<750	<50	--	--	--	--	--	<2.0
2/12/97		106.89	--	5.47	0.00	101.42	<250	<750	<50	--	--	--	--	--	<2.0
4/22/97		106.89	--	14.30	0.00	92.59	<250	<750	<50	--	--	--	--	--	<2.0
8/5/97		106.89	--	7.65	0.00	99.24	<250	1,410	<50	--	--	--	--	--	<2.0
11/11/97		106.89	--	6.45	0.00	100.44	<250	<750	<50	--	--	--	--	--	<2.0
2/11/98		106.89	--	6.23	0.00	100.66	<250	<750	<50	--	--	--	--	--	<2.0
5/28/98		106.89	--	6.44	0.00	100.45	<250	<750	<50	--	--	--	--	--	5.91
8/20/98		106.89	--	8.75	0.00	98.14	<250	<750	<50	--	--	--	--	--	<1.0
11/19/98		106.89	--	7.05	0.00	99.84	<250	<750	<50	--	--	--	--	--	<1.0
3/11/99		106.89	--	5.90	0.00	100.99	<250	<500	<80	--	--	--	--	--	<1.0
5/25/99		106.89	--	7.10	0.00	99.79	<250	--	<80	--	--	--	--	--	--
8/17/99		106.89	--	7.59	0.00	99.30	<250	607	<80	--	--	--	--	--	<1.0
11/19/99		106.89	--	5.59	0.00	101.30	<250	--	<80	--	--	--	--	--	<1.0
3/9/00		106.89	--	5.98	0.00	100.91	<250	<500	<80	--	--	--	--	--	<1.0
6/13/00		106.89	--	6.04	0.00	100.85	<250	<500	<80	--	--	--	--	--	<1.0
9/26/00		106.89	--	7.81	0.00	99.08	<250	<500	--	--	--	--	--	--	<1.0
12/13/00		106.89	--	7.06	0.00	99.83	<250	<500	--	--	--	--	--	--	<1.0
2/28/01		106.89	--	6.79	0.00	100.10	<250	<500	<80	--	--	--	--	--	<1.0

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COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (ft.)	TPH-DRO ⁴	TPH-HRO ⁴	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead
MW-114 (cont.)															
5/2/01		106.89	--	8.84	0.00	98.05	<250	1,880	<80	--	--	--	--	--	<1.0
10/30/02		106.89	--	8.32	0.00	98.57	<250	1,090	115	<0.500	<0.500	1.17	5.18	--	1.01
1/23/03		106.89	MONITORED/SAMPLED ANNUALLY												
4/18/03		106.89	MONITORED/SAMPLED ANNUALLY												
7/11/03		106.89	MONITORED/SAMPLED ANNUALLY												
10/31/03		106.89	--	6.61	0.00	100.28	<250	<500	<50.0	<0.500	<0.500	<0.500	<1.0	--	<1.0 ⁵
12/30/03		106.89	--	5.81	0.00	101.08	<50	480	3,600	<0.5	<0.5	<0.5	<1.5	--	<1.2
5/3/04		106.89	MONITORED/SAMPLED ANNUALLY												
7/20/04		106.89	MONITORED/SAMPLED ANNUALLY												
10/6/04		106.89	--	6.98	0.00	99.91	<76	<95	<50	--	--	--	--	--	--
10/24/05		106.89	--	7.28	0.00	99.61	<79	<99	<48	--	--	--	--	--	--
9/5/07		106.89	--	7.87	0.00	99.02	94	810	<50	--	--	--	--	--	0.38
5/27-28/08	LFP	106.89	--	7.19	0.00	99.70	<1,600	15,000	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.14
8/27-29/08	LFP	106.89	--	7.30	0.00	99.59	270	2,200	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.25
11/17-19/08	LFP	106.89	--	6.01	0.00	100.88	330	4,600	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.13
2/16-18/09	LFP	106.89	--	6.91	0.00	99.98	210	1,900	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.22
5/4-6/09	LFP	106.89	--	6.42	0.00	100.47	180	1,400	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.43
8/19-21/09	LFP	106.89	--	7.78	0.00	99.11	<30	<71	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.79
11/18-20/09	LFP	106.89	--	5.10	0.00	101.79	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.34
2/8-10/10	LFP	106.89	--	6.38	0.00	100.51	110	790	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.19
5/12-13/10	LFP	106.89	--	6.71	0.00	100.18	<30	80	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.23
08/11/10	LFP	106.89	--	7.45	0.00	99.44	<29	220	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.15
11/3-4/10	LFP	106.89	--	5.88	0.00	101.01	<29	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.24
2/3-4/11	LFP	106.89	--	6.48	0.00	100.41	60	460	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.10
05/23/11	LFP	106.89	--	6.55	0.00	100.34	55	380	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.36
8/23-24/11	LFP	106.89	--	7.70	0.00	99.19	130	1,500	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.41
11/7-9/11	LFP	106.89	--	7.35	0.00	99.54	120	950	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.19
2/6-8/12	LFP	106.89	--	6.25	0.00	100.64	<29	180	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.088
5/2-4/12	LFP	106.89	--	5.95	0.00	100.94	<30	140	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.72
8/1-3/12	LFP	106.89	--	7.50	0.00	99.39	140	910	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.084
11/26-28/12	LFP	106.89	--	5.88	0.00	101.01	<31	<72	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.19
02/4-6/13	LFP	106.89	--	6.27	0.00	100.62	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.13
05/6-8/13	LFP	106.89	--	6.97	0.00	99.92	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.20
9/9-13/13	LFP	106.89	--	6.96	0.00	99.93	<29/60	<67/260	<50	<0.5	<0.5	<0.5	<0.5	<0.5	2.3
11/18-22/13	LFP	106.89	--	8.36	0.00	98.53	200/99	<68/340	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.10
02/4-11/14	LFP	106.89	--	6.56	0.00	100.33	<29/<29	<67/71	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.12

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (ft.)	TPH-DRO ⁴	TPH-HRO ⁴	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead
MW-114 (cont.)															
6/12-14/14	LFP	106.89	--	6.96	0.00	99.93	38/94	340/820	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.18
8/18-21/14	LFP	106.89	--	7.57	0.00	99.32	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.10
11/19-20/14	LFP	106.89	--	6.75	0.00	100.14	<28/<28	<66/140	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.20
2/17-20/15	LFP	106.89	--	6.31	0.00	100.58	<30/<30	<69/<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082
5/11-15/15	LFP	106.89	--	6.89	0.00	100.00	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.55
8/10-11/15	LFP	106.89	--	8.03	0.00	98.86	<29/130	170/570	<50	<0.5	<0.5	<0.5	<0.5	<0.5	39.2
11/16-18/15	LFP	106.89	--	4.54	0.00	102.35	<29/49	<67/280	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.0145
5/13-14/16	LFP	106.89	--	7.97	0.00	98.92	35/67	260/490	<50	<0.5	<0.5	<0.5	<0.5	--	<0.13
11/14/16	LFP	106.89	--	5.40	0.00	101.49	36/220	280/790	<50	<0.5	<0.5	<0.5	<0.5	--	2.5
05/14/17	LFP	106.89	--	5.93	0.00	100.96	38/42	280/<67	<50	<0.5	<0.5	<0.5	<0.5	--	8.3
MW-115															
8/22/95		107.94	--	8.79	0.00	99.15	<250	<750	1,800	--	--	--	--	--	--
11/28/95		107.94	--	7.05	0.00	100.89	<250	<750	460	--	--	--	--	--	<2.0
3/12/96		107.94	--	7.76	0.00	100.18	<250	<750	630	--	--	--	--	--	<2.0
6/26/96		107.94	--	8.45	0.00	99.49	<250	<750	706	--	--	--	--	--	<2.0
10/9/96		107.94	--	8.71	0.00	99.23	<250	<750	722	--	--	--	--	--	2.54
2/12/97		107.94	--	7.48	0.00	100.46	<250	<750	58	--	--	--	--	--	<2.0
4/22/97		107.94	--	7.25	0.00	100.69	<250	<750	<50	--	--	--	--	--	<2.0
8/5/97		107.94	--	8.77	0.00	99.17	<250	<750	611	--	--	--	--	--	2.0
11/11/97		107.94	--	7.71	0.00	100.23	<250	<750	57	--	--	--	--	--	<2.0
2/11/98		107.94	--	7.72	0.00	100.22	<250	<750	89.5	--	--	--	--	--	<2.0
5/28/98		107.94	--	7.92	0.00	100.02	<250	<750	<50	--	--	--	--	--	8.08
8/20/98		107.94	--	9.18	0.00	98.76	<250	<750	155	--	--	--	--	--	<1.0
11/19/98		107.94	--	8.58	0.00	99.36	<250	<750	<50	--	--	--	--	--	<1.0
3/11/99		107.94	--	7.12	0.00	100.82	<250	<750	<80	--	--	--	--	--	<1.0
5/25/99		107.94	--	8.33	0.00	99.61	<250	--	<80	--	--	--	--	--	--
8/17/99		107.94	--	8.87	0.00	99.07	<250	<500	163	--	--	--	--	--	1.4
11/19/99		107.94	--	6.82	0.00	101.12	<250	--	<80	--	--	--	--	--	<1.0
3/9/00		107.94	--	7.20	0.00	100.74	<250	<500	103	--	--	--	--	--	<1.0
6/13/00		107.94	--	7.82	0.00	100.12	--	--	<80	--	--	--	--	--	<1.0
9/26/00		107.94	--	9.02	0.00	98.92	<250	<500	--	--	--	--	--	--	1.02
12/13/00		107.94	--	8.43	0.00	99.51	<250	<500	313	--	--	--	--	--	<1.0
2/28/01		107.94	--	8.13	0.00	99.81	<250	<500	177	--	--	--	--	--	<1.0
5/2/01		107.94	--	10.37	0.00	97.57	<250	<500	162	--	--	--	--	--	<1.0
10/30/02		107.94	--	9.33	0.00	98.61	<250	<500	175	<0.500	<0.500	<0.500	<1.0	--	4.36
1/23/03		107.94	MONITORED/SAMPLED ANNUALLY												

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GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (ft.)	TPH-DRO ⁴	TPH-HRO ⁴	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead
MW-115 (cont.)															
4/18/03		107.94	MONITORED/SAMPLED ANNUALLY												
7/11/03		107.94	MONITORED/SAMPLED ANNUALLY												
10/31/03		107.94	--	8.30	0.00	99.64	<250	<500	78.9	<0.500	<0.500	<0.500	<1.0	--	<1.0 ⁵
12/31/03		107.94	--	6.98	0.00	100.96	<50	<79	<99	<0.5	<0.5	<0.5	<1.5	--	<1.2
5/3/04		107.94	MONITORED/SAMPLED ANNUALLY												
7/20/04		107.94	MONITORED/SAMPLED ANNUALLY												
10/6/04		107.94	--	8.43	0.00	99.51	<160	<200	<50	--	--	--	--	--	--
10/21/05		107.94	--	8.67	0.00	99.27	<81	<100	<48	--	--	--	--	--	--
10/21/05(D)		107.94	--	8.67	0.00	99.27	<82	<100	<48	--	--	--	--	--	--
9/5/07		107.94	--	9.11	0.00	98.83	<76	<95	<50	--	--	--	--	--	0.37
5/27-28/08		107.94	UNABLE TO LOCATE												
8/27-29/08	LFP	107.94	--	8.63	0.00	99.31	<82	<100	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.35
11/17-19/08	LFP	107.94	--	7.25	0.00	100.69	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.097
2/16-18/09	LFP	107.94	--	8.31	0.00	99.63	<31	<71	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.17
5/4-6/09	LFP	107.94	--	7.66	0.00	100.28	42	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.36
8/19-21/09	LFP	107.94	--	9.04	0.00	98.90	320	2,700	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.64
10/19/09	LFP	107.94	--	8.70	0.00	99.24	<29	<68	--	--	--	--	--	--	--
11/18-20/09	LFP	107.94	--	5.85	0.00	102.09	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.92
2/8-10/10	LFP	107.94	--	7.69	0.00	100.25	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.17
5/12-13/10	LFP	107.94	--	8.14	0.00	99.80	30	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.20
08/12/10	LFP	107.94	--	8.81	0.00	99.13	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.92
11/3-4/10	LFP	107.94	--	7.07	0.00	100.87	<30	<70	70	<0.5	<0.5	<0.5	<0.5	<0.5	0.83
2/3-4/11	LFP	107.94	--	7.81	0.00	100.13	33	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.11
05/24/11	LFP	107.94	--	7.95	0.00	99.99	42	220	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.53
8/23-24/11	LFP	107.94	--	9.05	0.00	98.89	68	74	73	<0.5	<0.5	<0.5	<0.5	<0.5	1.2
11/7-9/11	LFP	107.94	--	8.70	0.00	99.24	<29	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.60
2/6-8/12	LFP	107.94	--	7.55	0.00	100.39	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
5/2-4/12	LFP	107.94	--	7.55	0.00	100.39	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
8/1-3/12	LFP	107.94	--	8.82	0.00	99.12	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.63
11/26-28/12	LFP	107.94	--	7.04	0.00	100.90	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.052
02/4-6/13	LFP	107.94	--	7.58	0.00	100.36	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073
05/6-8/13	LFP	107.94	--	8.34	0.00	99.60	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.41
9/9-13/13	LFP	107.94	--	8.09	0.00	99.85	<28/31	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.89
11/18-21/13	LFP	107.94	--	7.45	0.00	100.49	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.45
2/4-11/14	LFP	107.94	--	8.05	0.00	99.89	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.43
6/12-14/14	LFP	107.94	INACCESSIBLE												

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GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (ft.)	TPH-DRO ⁴	TPH-HRO ⁴	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead
MW-115 (cont.)															
8/18-21/14	LFP	107.94	--	8.88	0.00	99.06	<29/36	<68/<68	66	<0.5	<0.5	<0.5	<0.5	<0.5	0.82
11/19-20/14	LFP	107.94	--	8.07	0.00	99.87	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.28
2/17-20/15	LFP	107.94	--	7.57	0.00	100.37	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082
5/11-15/15	LFP	107.94	--	8.33	0.00	99.61	<29/<29	<68/<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.60
8/10-11/15	LFP	107.94	--	9.28	0.00	98.66	<28/33	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.71
11/16-18/15	LFP	107.94	--	6.53	0.00	101.41	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.00
5/13-14/16	LFP	107.94	--	8.48	0.00	99.46	WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY								
11/14/16	LFP	107.94	--	7.35	0.00	100.59	WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY								
05/14/17	LFP	107.94	--	7.44	0.00	100.50	WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY								
MW-116															
8/22/95		107.56	--	8.82	0.00	98.74	<250	<750	<50	--	--	--	--	--	--
3/12/96		107.56	--	8.08	0.00	99.48	<250	<750	<50	--	--	--	--	--	<2.0
10/9/96		107.56	--	8.69	0.00	98.87	<250	<750	<50	--	--	--	--	--	<2.0
2/12/97		107.56	--	7.86	0.00	99.70	<250	<750	<50	--	--	--	--	--	<2.0
4/22/97		107.56	--	7.65	0.00	99.91	<250	<750	<50	--	--	--	--	--	<2.0
8/5/97		107.56	--	8.71	0.00	98.85	<250	<750	<50	--	--	--	--	--	<2.0
11/11/97		107.56	--	8.07	0.00	99.49	<250	<750	<50	--	--	--	--	--	<2.0
2/11/98		107.56	--	8.06	0.00	99.50	<250	<750	<50	--	--	--	--	--	<2.0
5/28/98		107.56	--	8.25	0.00	99.31	<250	<750	<50	--	--	--	--	--	4.66
8/20/98		107.56	--	9.05	0.00	98.51	<250	<750	<50	--	--	--	--	--	<1.0
11/19/98		107.56	--	9.16	0.00	98.40	<250	<750	<50	--	--	--	--	--	<1.0
3/11/99		107.56	--	7.64	0.00	99.92	<250	<750	<80	--	--	--	--	--	<1.0
5/25/99		107.56	--	8.40	0.00	99.16	<250	--	<80	--	--	--	--	--	--
8/17/99		107.56	--	8.78	0.00	98.78	<250	<500	<80	--	--	--	--	--	<1.0
11/19/99		107.56	--	7.60	0.00	99.96	<250	--	<80	--	--	--	--	--	<1.0
3/9/00		107.56	--	7.70	0.00	99.86	<250	<500	<80	--	--	--	--	--	<1.0
6/13/00		107.56	--	8.37	0.00	99.19	--	--	<80	--	--	--	--	--	<1.0
9/26/00		107.56	--	8.88	0.00	98.68	<250	<500	--	--	--	--	--	--	<1.0
12/13/00		107.56	--	8.52	0.00	99.04	<250	<500	--	--	--	--	--	--	<1.0
2/28/01		107.56	--	8.25	0.00	99.31	<250	<500	<80	--	--	--	--	--	<1.0
5/2/01		107.56	--	10.84	0.00	96.72	<250	<500	<80	--	--	--	--	--	<1.0
10/30/02		107.56	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
1/23/03		107.56	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
4/18/03		107.56	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
7/11/03		107.56	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
10/31/03		107.56	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--

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COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (ft.)	TPH-DRO ⁴	TPH-HRO ⁴	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead
MW-116 (cont.)															
12/30/03		107.56	--	7.54	0.00	100.02	<50	<79	<99	<0.5	<0.5	<0.5	<1.5	--	<1.2
5/3/04		107.56	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
7/20/04		107.56	--	8.92	0.00	98.64	<284	<568	<50	<0.500	<0.500	<0.500	<1.00	--	--
10/7/04		107.56	--	7.54	0.00	100.02	<75	<94	<50	--	--	--	--	--	--
10/20/05		107.56	--	8.73	0.00	98.83	<81	<100	<48	--	--	--	--	--	--
9/6/07		107.56	--	9.00	0.00	98.56	<76	<95	<50	--	--	--	--	--	0.15
5/27-28/08		107.56	INACCESSIBLE			--	--	--	--	--	--	--	--	--	--
8/27-29/08	LFP	107.56	--	8.68	0.00	98.88	89	<100	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
11/17-19/08	LFP	107.56	--	7.93	0.00	99.63	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
2/16-18/09	LFP	107.56	--	8.45	0.00	99.11	590	350	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.11
5/4-6/09	LFP	107.56	--	8.20	0.00	99.36	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
8/19-21/09	LFP	107.56	--	8.91	0.00	98.65	34	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
11/18-20/09	LFP	107.56	--	6.85	0.00	100.71	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.11
2/8-10/10	LFP	107.56	--	8.07	0.00	99.49	<28	<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.10
08/12/10	LFP	107.56	--	8.78	0.00	98.78	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.15
11/3-4/10	LFP	107.56	--	8.04	0.00	99.52	<29	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052
2/3-4/11	LFP	107.56	--	8.16	0.00	99.40	<29	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052
05/24/11		107.56	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
8/23-24/11	LFP	107.56	--	9.00	0.00	98.56	<31	<71	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
11/7-9/11	LFP	107.56	--	8.75	0.00	98.81	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
2/6-8/12	LFP	107.56	--	8.05	0.00	99.51	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
5/2-4/12	LFP	107.56	--	8.10	0.00	99.46	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
8/1-3/12	LFP	107.56	--	8.80	0.00	98.76	<30	<71	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.034
11/26-28/12	LFP	107.56	--	7.84	0.00	99.72	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.047
02/4-6/13	LFP	107.56	--	8.04	0.00	99.52	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073
05/6-8/13	LFP	107.56	--	8.51	0.00	99.05	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073
9/9-13/13	LFP	107.56	--	8.61	0.00	98.95	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085
11/18-21/13	LFP	107.56	--	8.15	0.00	99.41	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.10
2/4-11/14	LFP	107.56	--	8.28	0.00	99.28	<29/<29	<68/<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085
6/12-14/14	LFP	107.56	INACCESSIBLE			--	--	--	--	--	--	--	--	--	--
8/18-21/14	LFP	107.56	--	8.83	0.00	98.73	<29/38	<67/<67	68	<0.5	<0.5	<0.5	<0.5	<0.5	0.78
11/19-20/14	LFP	107.56	--	8.38	0.00	99.18	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082
2/17-20/15	LFP	107.56	--	8.08	0.00	99.48	<30/<30	<69/<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.17
5/11-15/15	LFP	107.56	--	8.71	0.00	98.85	<29/<29	<68/<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082
8/10-11/15	LFP	107.56	--	9.17	0.00	98.39	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.42
11/16-18/15	LFP	107.56	--	7.37	0.00	100.19	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.0062

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (ft.)	TPH-DRO ⁴	TPH-HRO ⁴	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead
MW-116 (cont.)															
5/13-14/16	LFP	107.56	--	8.59	0.00	98.97	WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY								
11/14/16	LFP	107.56	--	8.06	0.00	99.50	WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY								
05/14/17	LFP	107.56	--	8.07	0.00	99.49	WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY								
MW-117															
8/22/95		106.57	--	7.45	0.00	99.12	<250	<750	<50	--	--	--	--	--	--
11/28/95		106.57	--	5.45	0.00	101.12	<250	<750	<50	--	--	--	--	--	<2.0
3/12/96		106.57	--	6.32	0.00	100.25	<250	<750	<50	--	--	--	--	--	<2.0
6/26/96		106.57	--	7.18	0.00	99.39	<250	<750	<50	--	--	--	--	--	<2.0
10/9/96		106.57	--	7.42	0.00	99.15	<250	<750	<50	--	--	--	--	--	7.1
2/12/97		106.57	--	5.93	0.00	100.64	<250	<750	<50	--	--	--	--	--	<2.0
4/22/97		106.57	--	5.78	0.00	100.79	<250	<750	<50	--	--	--	--	--	<2.0
8/5/97		106.57	--	7.58	0.00	98.99	<250	<750	<50	--	--	--	--	--	<2.0
11/11/97		106.57	--	6.21	0.00	100.36	<250	<750	<50	--	--	--	--	--	<2.0
2/11/98		106.57	--	6.21	0.00	100.36	<250	<750	<50	--	--	--	--	--	<2.0
5/28/98		106.57	--	6.44	0.00	100.13	<250	<750	<50	--	--	--	--	--	2.68
8/20/98		106.57	--	7.90	0.00	98.67	<250	<750	<50	--	--	--	--	--	<1.0
11/19/98		106.57	--	7.18	0.00	99.39	<250	<750	<50	--	--	--	--	--	<1.0
3/11/99		106.57	--	5.51	0.00	101.06	<250	<500	<80	--	--	--	--	--	<1.0
5/25/99		106.57	--	7.00	0.00	99.57	<250	--	<80	--	--	--	--	--	--
8/17/99		106.57	--	7.56	0.00	99.01	<250	<500	<80	--	--	--	--	--	<1.0
11/19/99		106.57	--	5.11	0.00	101.46	<250	--	<80	--	--	--	--	--	<1.0
3/9/00		106.57	--	5.65	0.00	100.92	<250	<500	<80	--	--	--	--	--	<1.0
6/13/00		106.57	--	6.25	0.00	100.32	<250	<500	<80	--	--	--	--	--	<1.0
9/26/00		106.57	--	7.70	0.00	98.87	<250	<500	--	--	--	--	--	--	<1.0
12/13/00		106.57	--	7.11	0.00	99.46	<250	<500	--	--	--	--	--	--	<1.0
2/28/01		106.57	--	6.78	0.00	99.79	<250	<500	<80	--	--	--	--	--	<1.0
5/2/01		106.57	--	8.90	0.00	97.67	<250	<500	<80	--	--	--	--	--	<1.0
10/30/02		106.57	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
1/23/03		106.57	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--	--	--	--
4/18/03		106.57	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--	--	--	--
7/11/03		106.57	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--	--	--	--
10/31/03		106.57	UNABLE TO LOCATE - POSSIBLY PAVED OVER			--	--	--	--	--	--	--	--	--	--
12/30/03		106.57	--	5.46	0.00	101.11	<50	<80	<100	<0.5	<0.5	<0.5	<1.5	--	<1.2
5/3/04		106.57	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--	--	--	--
7/20/04		106.57	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--	--	--	--
10/6/04		106.57	--	7.07	0.00	99.50	<79	<98	<50	--	--	--	--	--	--

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (ft.)	TPH-DRO ⁴	TPH-HRO ⁴	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead
MW-117 (cont.)															
10/21/05		106.57	--	7.33	0.00	99.24	<81	<100	<48	--	--	--	--	--	--
9/5/07		106.57	--	7.92	0.00	98.65	<82	<100	<50	--	--	--	--	--	0.22
5/27-28/08	LFP	106.57	--	7.42	0.00	99.15	<80	<100	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.056
8/27-29/08	LFP	106.57	--	7.38	0.00	99.19	<82	<100	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
11/17-19/08	LFP	106.57	--	5.90	0.00	100.67	55	<72	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
2/16-18/09	LFP	106.57	--	7.06	0.00	99.51	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.095
5/4-6/09	LFP	106.57	--	6.51	0.00	100.06	38	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
8/19-21/09	LFP	106.57	--	7.82	0.00	98.75	40	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.073
11/18-20/09	LFP	106.57	--	3.85	0.00	102.72	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
2/8-10/10	LFP	106.57	--	6.43	0.00	100.14	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
5/12-13/10	LFP	106.57	--	6.96	0.00	99.61	36	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
08/12/10	LFP	106.57	--	7.68	0.00	98.89	<29	210	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052
11/3-4/10	LFP	106.57	--	5.97	0.00	100.60	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052
2/3-4/11	LFP	106.57	--	6.5	0.00	100.07	<31	<72	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052
05/24/11	LFP	106.57	--	6.77	0.00	99.80	<30	150	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052
8/23-24/11	LFP	106.57	--	7.85	0.00	98.72	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.15
11/7-9/11	LFP	106.57	--	7.55	0.00	99.02	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
2/6-8/12	LFP	106.57	--	6.20	0.00	100.37	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
5/2-4/12	LFP	106.57	--	6.00	0.00	100.57	<28	<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
8/1-3/12	LFP	106.57	--	7.66	0.00	98.91	<32	<75	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.034
11/26-28/12	LFP	106.57	--	5.60	0.00	100.97	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.047
02/4-6/13	LFP	106.57	--	6.29	0.00	100.28	<28	<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073
05/6-8/13	LFP	106.57	--	7.18	0.00	99.39	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073
9/9-13/13	LFP	106.57	--	8.11	0.00	98.46	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085
11/18-21/13	LFP	106.57	--	5.99	0.00	100.58	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085
2/4-11/14	LFP	106.57	--	6.85	0.00	99.72	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085
6/12-14/14	LFP	106.57	--	7.11	0.00	99.46	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085
8/18-21/14	LFP	106.57	--	7.71	0.00	98.86	<29/<29	<68/<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.37
11/19-20/14	LFP	106.57	--	6.91	0.00	99.66	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082
2/17-20/15	LFP	106.57	--	6.26	0.00	100.31	<29/<29	<69/<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082
5/11-15/15	LFP	106.57	--	6.91	0.00	99.66	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082
8/10-11/15	LFP	106.57	--	8.10	0.00	98.47	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	1.10
11/16-18/15	LFP	106.57	--	3.89	0.00	102.68	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.0021
5/13-14/16	LFP	106.57	--	7.38	0.00	99.19	WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY								
11/14/16	LFP	106.57	--	5.60	0.00	100.97	WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY								
05/14/17	LFP	106.57	--	6.10	0.00	100.47	WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY								

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GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (ft.)	TPH-DRO ⁴	TPH-HRO ⁴	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead
MW-118															
8/22/95		106.72	--	7.87	0.00	98.85	470	<750	<50	--	--	--	--	--	--
11/28/95		106.72	--	5.76	0.00	100.96	<250	<750	<50	--	--	--	--	--	<2.0
3/12/96		106.72	--	6.67	0.00	100.05	<250	<750	<50	--	--	--	--	--	<2.0
6/26/96		106.72	--	7.51	0.00	99.21	<250	<750	<50	--	--	--	--	--	<2.0
10/9/96		106.72	--	7.78	0.00	98.94	<250	<750	50.1	--	--	--	--	--	<2.0
2/12/97		106.72	--	6.35	0.00	100.37	<250	<750	<50	--	--	--	--	--	<2.0
4/22/97		106.72	--	5.98	0.00	100.74	<250	<750	<50	--	--	--	--	--	<2.0
8/5/97		106.72	--	7.85	0.00	98.87	<250	<750	<50	--	--	--	--	--	<2.0
11/11/97		106.72	--	6.52	0.00	100.20	<250	<750	<50	--	--	--	--	--	<2.0
2/11/98		106.72	--	6.56	0.00	100.16	<250	<750	<50	--	--	--	--	--	<2.0
5/28/98		106.72	--	6.85	0.00	99.87	<250	<750	<50	--	--	--	--	--	2.84
8/20/98		106.72	--	7.26	0.00	99.46	<250	<750	<50	--	--	--	--	--	<1.0
11/19/98		106.72	--	7.70	0.00	99.02	<250	<750	<50	--	--	--	--	--	<1.0
3/11/99		106.72	--	5.81	0.00	100.91	<250	<750	<80	--	--	--	--	--	<1.0
5/25/99		106.72	--	7.39	0.00	99.33	<250	--	<80	--	--	--	--	--	--
8/17/99		106.72	--	7.95	0.00	98.77	<250	<500	<80	--	--	--	--	--	<1.0
11/19/99		106.72	--	5.53	0.00	101.19	<250	--	<80	--	--	--	--	--	<1.0
3/9/00		106.72	--	5.99	0.00	100.73	<250	<500	<80	--	--	--	--	--	<1.0
6/13/00		106.72	--	7.08	0.00	99.64	<250	<500	<80	--	--	--	--	--	<1.0
9/26/00		106.72	--	8.07	0.00	98.65	<250	<500	--	--	--	--	--	--	<1.0
12/13/00		106.72	--	7.53	0.00	99.19	<250	<500	--	--	--	--	--	--	<1.0
2/28/01		106.72	--	7.17	0.00	99.55	<250	<500	<80	--	--	--	--	--	<1.0
5/2/01		106.72	--	6.81	0.00	99.91	<250	<500	<80	--	--	--	--	--	<1.0
10/30/02		106.72	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
1/23/03		106.72	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
4/18/03		106.72	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
7/11/03		106.72	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
10/31/03		106.72	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
12/30/03		106.72	--	5.71	0.00	101.01	<50	<400	<500	<0.5	<0.5	<0.5	<1.5	--	<1.2
5/3/04		106.72	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
7/20/04		106.72	--	8.14	0.00	98.58	<250	<500	<50	<0.500	<0.500	<0.500	<1.00	--	--
10/7/04		106.72	--	7.55	0.00	99.17	<76	<96	<50	--	--	--	--	--	--
10/7/04(D)		106.72	--	7.55	0.00	99.17	<80	160	<50	--	--	--	--	--	--
10/20/05		106.72	--	7.78	0.00	98.94	<83	<100	<48	--	--	--	--	--	--
9/5/07		106.72	--	8.20	0.00	98.52	980	710	<50	--	--	--	--	--	0.13
5/27-28/08		106.72	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (ft.)	TPH-DRO ⁴	TPH-HRO ⁴	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead
MW-118 (cont.)															
8/27-29/08	LFP	106.72	--	7.64	0.00	99.08	260	230	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
11/17-19/08	LFP	106.72	--	6.20	0.00	100.52	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
2/16-18/09	LFP	106.72	--	7.29	0.00	99.43	<29	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.068
5/4-6/09	LFP	106.72	--	6.70	0.00	100.02	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
8/19-21/09	LFP	106.72	--	8.04	0.00	98.68	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.23
11/18-20/09	LFP	106.72	--	4.45	0.00	102.27	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
2/8-10/10	LFP	106.72	--	6.65	0.00	100.07	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
5/12-13/10	LFP	106.72	--	7.21	0.00	99.51	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
08/12/10	LFP	106.72	--	7.90	0.00	98.82	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052
11/3-4/10	LFP	106.72	--	6.39	0.00	100.33	<29	160	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052
2/3-4/11	LFP	106.72	--	6.77	0.00	99.95	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052
05/24/11		106.72	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
8/23-24/11	LFP	106.72	--	8.15	0.00	98.57	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
11/7-9/11	LFP	106.72	--	7.80	0.00	98.92	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
2/6-8/12	LFP	106.72	--	6.50	0.00	100.22	<28	<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
5/2-4/12	LFP	106.72	--	5.85	0.00	100.87	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
8/1-3/12	LFP	106.72	--	7.87	0.00	98.85	97	230	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.042
11/26-28/12	LFP	106.72	--	5.84	0.00	100.88	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.047
02/4-6/13	LFP	106.72	--	6.57	0.00	100.15	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073
05/6-8/13	LFP	106.72	--	7.47	0.00	99.25	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073
9/9-13/13	LFP	106.72	--	7.28	0.00	99.44	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085
11/18-21/13	LFP	106.72	--	6.57	0.00	100.15	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.15
2/4-11/14	LFP	106.72	--	7.02	0.00	99.70	<29/<29	<68/<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085
6/12-14/14	LFP	106.72	INACCESSIBLE			--	--	--	--	--	--	--	--	--	--
8/18-21/14	LFP	106.72	--	7.92	0.00	98.80	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.41
11/19-20/14	LFP	106.72	--	7.15	0.00	99.57	<29/<29	<68/<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082
2/17-20/15	LFP	106.72	--	6.54	0.00	100.18	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.083
5/11-15/15	LFP	106.72	--	8.93	0.00	97.79	75/69	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.170
8/10-11/15	LFP	106.72	--	8.27	0.00	98.45	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.13
11/16-18/15	LFP	106.72	--	4.69	0.00	102.03	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.00067
5/13-14/16	LFP	106.72	--	7.61	0.00	99.11	WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY								
11/14/16	LFP	106.72	--	6.36	0.00	100.36	WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY								
05/14/17	LFP	106.72	--	6.50	0.00	100.22	WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY								

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (ft.)	TPH-DRO ⁴	TPH-HRO ⁴	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead	
MW-119																
8/22/95		108.35	--	9.22	0.00	99.13	<250	<750	<50	--	--	--	--	--	--	
11/28/95		108.35	--	7.54	0.00	100.81	<250	<750	100	--	--	--	--	--	<2.0	
3/12/96		108.35	--	8.21	0.00	100.14	<250	<750	240	--	--	--	--	--	2.2	
6/26/96		108.35	--	8.91	0.00	99.44	<250	<750	174	--	--	--	--	--	<2.0	
10/9/96		108.35	--	9.14	0.00	99.21	<250	<750	78	--	--	--	--	--	2.16	
2/12/97		108.35	--	7.84	0.00	100.51	<250	<750	<50	--	--	--	--	--	<2.0	
4/22/97		108.35	--	7.67	0.00	100.68	<250	<750	<50	--	--	--	--	--	<2.0	
8/5/97		108.35	--	9.15	0.00	99.20	<250	<750	53.6	--	--	--	--	--	<2.0	
11/11/97		108.35	--	8.02	0.00	100.33	264	<750	<50	--	--	--	--	--	<2.0	
2/11/98		108.35	--	8.02	0.00	100.33	<250	<750	<50	--	--	--	--	--	<2.0	
5/28/98		108.35	--	8.20	0.00	100.15	<250	<750	102	--	--	--	--	--	3.33	
8/20/98		108.35	--	10.40	0.00	97.95	<250	<750	<50	--	--	--	--	--	<1.0	
11/19/98		108.35	--	8.98	0.00	99.37	<250	<750	78.5	--	--	--	--	--	1.82	
3/11/99		108.35	--	7.61	0.00	100.74	<250	<750	<80	--	--	--	--	--	<1.0	
5/25/99		108.35	--	8.77	0.00	99.58	<250	--	<80	--	--	--	--	--	--	
8/17/99		108.35	--	9.29	0.00	99.06	<250	<500	<80	--	--	--	--	--	<1.0	
11/19/99		108.35	--	7.25	0.00	101.10	<250	--	<80	--	--	--	--	--	<1.0	
3/9/00		108.35	--	7.63	0.00	100.72	<250	<500	<80	--	--	--	--	--	<1.0	
6/13/00		108.35	--	8.28	0.00	100.07	<250	<500	413	--	--	--	--	--	2.64	
9/26/00		108.35	--	9.44	0.00	98.91	<250	<500	--	--	--	--	--	--	<1.0	
12/13/00		108.35	--	8.86	0.00	99.49	<250	<500	--	--	--	--	--	--	1.79	
2/28/01		108.35	--	8.56	0.00	99.79	<250	<500	227	--	--	--	--	--	2.64	
5/2/01		108.35	--	8.10	0.00	100.25	<250	<500	104	--	--	--	--	--	1.56	
10/30/02		108.35	--	9.76	0.00	98.59	<250	<500	<80	<0.500	<0.500	<0.500	<1.00	--	4.2	
1/23/03		108.35	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--	--
4/18/03		108.35	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--	--
7/11/03		108.35	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--	--
10/31/03		108.35	--	8.62	0.00	99.73	<250	<500	<50	<0.500	<0.500	<0.500	<1.00	--	1.31 ²	
12/30/03		108.35	--	7.40	0.00	100.95	<50	<77	<96	<0.5	<0.5	<0.5	<1.5	--	<1.2	
5/3/04		108.35	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--	--
7/20/04		108.35	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--	--
10/7/04		108.35	--	8.85	0.00	99.50	<79	<98	<50	--	--	--	--	--	--	
10/20/05		108.35	--	9.08	0.00	99.27	<80	<100	<48	--	--	--	--	--	--	
9/5/07		108.35	--	9.53	0.00	98.82	<800	<1,000	<50	--	--	--	--	--	0.57	
5/27-28/08		108.35	INACCESSIBLE					--	--	--	--	--	--	--	--	--
8/27-29/08	LFP	108.35	--	9.05	0.00	99.30	<79	<99	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.52	

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (ft.)	TPH-DRO ⁴	TPH-HRO ⁴	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead
MW-119 (cont.)															
11/17-19/08	LFP	108.35	--	7.65	0.00	100.70	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.29
2/16-18/09	LFP	108.35	--	8.70	0.00	99.65	45	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.44
5/4-6/09	LFP	108.35	--	8.06	0.00	100.29	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.74
8/19-21/09	LFP	108.35	--	9.45	0.00	98.90	36	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.25
11/18-20/09	LFP	108.35	--	6.41	0.00	101.94	32	<68	150	<0.5	<0.5	<0.5	<0.5	<0.5	1
2/8-10/10	LFP	108.35	--	8.11	0.00	100.24	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.33
5/12-13/10	LFP	108.35	--	8.56	0.00	99.79	<29	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.69
08/12/10	LFP	108.35	--	9.22	0.00	99.13	<30	70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.36
11/3-4/10	LFP	108.35	--	7.52	0.00	100.83	38	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	1.3
2/3-4/11	LFP	108.35	--	8.22	0.00	100.13	30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.30
05/24/11	LFP	108.35	--	8.37	0.00	99.98	<30	210	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.49
8/23-24/11	LFP	108.35	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
11/7-9/11	LFP	108.35	--	9.10	0.00	99.25	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.34
2/6-8/12	LFP	108.35	--	7.90	0.00	100.45	<29	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
5/2-4/12	LFP	108.35	--	8.00	0.00	100.35	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.26
8/1-3/12	LFP	108.35	--	9.23	0.00	99.12	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.27
11/26-28/12	LFP	108.35	--	7.43	0.00	100.92	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.10
02/4-6/13	LFP	108.35	--	7.99	0.00	100.36	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.099
05/6-8/13	LFP	108.35	--	8.76	0.00	99.59	<28	<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.15
9/9-13/13	LFP	108.35	--	8.51	0.00	99.84	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.26
11/18-21/13	LFP	108.35	--	7.67	0.00	100.68	<29/<29	<68/<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.80
2/4-11/14	LFP	108.35	--	8.47	0.00	99.88	<29/<29	<68/<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.16
6/12-14/14	LFP	108.35	INACCESSIBLE			--	--	--	--	--	--	--	--	--	--
8/18-21/14	LFP	108.35	--	9.23	0.00	99.12	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.17
11/19-20/14	LFP	108.35	--	8.50	0.00	99.85	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.14
2/17-20/15	LFP	108.35	--	7.97	0.00	100.38	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.18
5/11-15/15	LFP	108.35	--	8.96	0.00	99.39	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.24
8/10-11/15	LFP	108.35	--	9.70	0.00	98.65	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.13
11/16-18/15	LFP	108.35	--	6.43	0.00	101.92	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.0041
5/13-14/16	LFP	108.35	--	8.39	0.00	99.96	WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY								
11/14/16	LFP	108.35	--	7.70	0.00	100.65	WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY								
05/14/17	LFP	108.35	--	7.85	0.00	100.50	WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY								

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (ft.)	TPH-DRO ⁴	TPH-HRO ⁴	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead
MW-120															
11/7-9/11	LFP	107.11	--	8.00	0.00	99.11	220	160	740	<0.5	<0.5	<0.5	<0.5	<0.5	1.8
2/6-8/12	LFP	107.11	--	6.80	0.00	100.31	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
5/2-4/12	LFP	107.11	--	6.20	0.00	100.91	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
8/1-3/12	LFP	107.11	--	8.11	0.00	99.00	59	75	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.29
11/26-28/12	LFP	107.11	--	6.21	0.00	100.90	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.047
02/4-6/13	LFP	107.11	--	6.84	0.00	100.27	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073
05/6-8/13	LFP	107.11	--	7.64	0.00	99.47	<28	<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073
9/9-13/13	LFP	107.11	--	7.36	0.00	99.75	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.15
11/18-21/13	LFP	107.11	--	6.61	0.00	100.50	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.088
2/4-11/14	LFP	107.11	--	7.32	0.00	99.79	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085
6/12-14/14	LFP	107.11	--	7.70	0.00	99.41	<29/<29	<68/<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082
8/18-21/14	LFP	107.11	--	8.13	0.00	98.98	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.32
11/19-20/14	LFP	107.11	--	7.37	0.00	99.74	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082
2/17-20/15	LFP	107.11	--	6.83	0.00	100.28	<29/<29	<68/<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.22
5/11-15/15	LFP	107.11	--	7.71	0.00	99.40	<29/<29	<68/<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.10
8/10-11/15	LFP	107.11	--	8.53	0.00	98.58	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.13
11/16-18/15	LFP	107.11	--	4.94	0.00	102.17	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.0019
5/13-14/16	LFP	107.11	--	7.81	0.00	99.30	WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY								
11/14/16	LFP	107.11	--	6.47	0.00	100.64	WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY								
05/14/17	LFP	107.11	--	6.67	0.00	100.44	WELL REMOVED FROM SAMPLING PROGRAM - MONITORING ONLY								
B-1															
2/14/91		107.74	--	--	0.00	--	<250	--	5,100	--	--	--	--	--	--
2/14/92		107.74	--	6.90	0.00	100.84	--	--	--	--	--	--	--	--	--
2/18/92		107.74	--	6.72	0.00	101.02	--	--	--	--	--	--	--	--	--
3/13/92		107.74	--	6.93	0.00	100.81	--	--	<50	--	--	--	--	--	--
4/21/92		107.74	--	6.66	0.00	101.08	--	--	--	--	--	--	--	--	--
8/22/95		107.74	--	8.03	0.00	99.71	<250	<750	<50	--	--	--	--	--	--
11/28/95		107.74	--	6.13	0.00	101.61	<250	<750	<50	--	--	--	--	--	<2
3/11/96		107.74	--	6.99	0.00	100.75	<250	<750	<50	--	--	--	--	--	7.5
6/26/96		107.74	--	7.73	0.00	100.01	<250	<750	<50	--	--	--	--	--	<2
10/9/96		107.74	--	8.05	0.00	99.69	<250	<750	<50	--	--	--	--	--	<2
2/12/97		107.74	--	6.46	0.00	101.28	<250	<750	<50	--	--	--	--	--	<2
4/22/97		107.74	--	6.25	0.00	101.49	<250	<750	<50	--	--	--	--	--	<2
8/5/97		107.74	--	8.20	0.00	99.54	<250	<750	<50	--	--	--	--	--	<2
11/11/97		107.74	--	6.84	0.00	100.90	300	<750	<50	--	--	--	--	--	<2
2/11/98		107.74	--	6.70	0.00	101.04	<250	<750	<50	--	--	--	--	--	<2

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (ft.)	TPH-DRO ⁴	TPH-HRO ⁴	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead	
B-1 (cont.)																
5/28/98		107.74	--	6.85	0.00	100.89	<250	<750	<50	--	--	--	--	--	<1	
8/20/98		107.74	--	9.42	0.00	98.32	<250	<750	<50	--	--	--	--	--	<1	
11/19/98		107.74	--	7.43	0.00	100.31	<250	<750	<50	--	--	--	--	--	<1	
3/11/99		107.74	--	6.34	0.00	101.40	<250	<750	<80	--	--	--	--	--	<1	
5/25/99		107.74	--	7.60	0.00	100.14	<1,450	--	<80	--	--	--	--	--	--	
8/17/99		107.74	--	8.28	0.00	99.46	<250	<500	<80	--	--	--	--	--	<1	
11/19/99		107.74	--	5.90	0.00	101.84	<250	--	<80	--	--	--	--	--	<1	
3/9/00		107.74	--	6.38	0.00	101.36	<250	<500	<80	--	--	--	--	--	<1	
6/12/00		107.74	--	6.26	0.00	101.48	<250	<500	<80	--	--	--	--	--	<1	
9/26/00		107.74	--	8.51	0.00	99.23	<250	<500	--	--	--	--	--	--	<1	
12/13/00		107.74	--	7.69	0.00	100.05	<250	<500	--	--	--	--	--	--	<1	
2/28/01		107.74	--	7.37	0.00	100.37	<250	<500	<80	--	--	--	--	--	<1	
5/2/01		107.74	--	6.69	0.00	101.05	<250	<500	109	--	--	--	--	--	<1	
10/30/02		107.74	UNABLE TO LOCATE - PAVED OVER					--	--	--	--	--	--	--	--	--
1/23/03		107.74	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--	--
4/18/03		107.74	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--	--
7/11/03		107.74	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--	--
10/31/03		107.74	UNABLE TO LOCATE - PAVED OVER					--	--	--	--	--	--	--	--	--
12/30/03		107.74	--	6.11	0.00	101.63	<50	<78	<98	<0.5	<0.5	<0.5	<1.5	--	<1.2	
5/3/04		107.74	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--	--
7/20/04		107.74	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--	--
10/6/04		107.74	--	8.87	0.00	98.87	81	100	<50	--	--	--	--	--	--	
10/24/05		107.74	--	7.96	0.00	99.78	<81	<100	<48	--	--	--	--	--	--	
9/5/07		107.74	--	8.60	0.00	99.14	<80	<100	<50	--	--	--	--	--	0.13	
5/27-28/08	LFP	107.74	--	7.85	0.00	99.89	<75	<94	<50	<0.5	0.6	<0.5	<0.5	<0.5	<0.050	
8/27-29/08	LFP	107.74	--	8.00	0.00	99.74	<82	<100	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	
11/17-19/08	LFP	107.74	--	6.39	0.00	101.35	83	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	
2/16-18/09	LFP	107.74	--	7.55	0.00	100.19	300	2,000	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.098	
5/4-6/09	LFP	107.74	--	6.47	0.00	101.27	39	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	
8/19-21/09	LFP	107.74	--	8.54	0.00	99.20	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	
11/18-20/09	LFP	107.74	--	5.35	0.00	102.39	60	<69	66	<0.5	<0.5	<0.5	<0.5	<0.5	0.22	
2/8-10/10	LFP	107.74	--	6.89	0.00	100.85	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	
5/12-13/10	LFP	107.74	--	7.34	0.00	100.40	70	82	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050	
08/11/10	LFP	107.74	--	8.16	0.00	99.58	<30	83	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052	
11/3-4/10	LFP	107.74	--	6.02	0.00	101.72	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052	
2/3-4/11	LFP	107.74	--	7.03	0.00	100.71	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052	

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (ft.)	TPH-DRO ⁴	TPH-HRO ⁴	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead
B-1 (cont.)															
05/24/11	LFP	107.74	--	7.10	0.00	100.64	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052
8/23-24/11	LFP	107.74	--	8.46	0.00	99.28	<30	<71	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
11/7-9/11	LFP	107.74	--	8.10	0.00	99.64	<28	<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
2/6-8/12	LFP	107.74	--	6.75	0.00	100.99	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.11
5/2-4/12	LFP	107.74	--	6.45	0.00	101.29	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
8/1-3/12	LFP	107.74	--	8.23	0.00	99.51	<30	<71	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.034
11/26-28/12	LFP	107.74	--	6.29	0.00	101.45	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.047
02/4-6/13	LFP	107.74	--	6.81	0.00	100.93	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073
05/6-8/13	LFP	107.74	--	8.66	0.00	99.08	<28	<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073
9/9-13/13	LFP	107.74	--	7.18	0.00	100.56	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085
11/18-22/13	LFP	107.74	--	6.64	0.00	101.10	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085
2/4-11/14	LFP	107.74	--	7.25	0.00	100.49	<29/<29	<68/<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085
6/12-14/14	LFP	107.74	--	7.87	0.00	99.87	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085
8/18-21/14	LFP	107.74	--	8.40	0.00	99.34	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082
11/19-20/14	LFP	107.74	--	7.43	0.00	100.31	<29/<29	<68/<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082
2/17-20/15	LFP	107.74	--	6.79	0.00	100.95	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082
5/11-15/15	LFP	107.74	--	8.77	0.00	98.97	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082
8/10-11/15	LFP	107.74	--	8.80	0.00	98.94	<28/89	<66/74	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.13
11/16-18/15	LFP	107.74	--	4.69	0.00	103.05	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.00063
5/13-14/16	LFP	107.74	--	7.80	0.00	99.94	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	--	<0.13
11/14/16	LFP	107.74	--	6.15	0.00	101.59	51	<67	<50	<0.5	<0.5	<0.5	<0.5	--	<0.090
05/14/17	LFP	107.74	--	6.51	0.00	101.23	<28	<66	<50	<0.5	<0.5	<0.5	<0.5	--	<0.090
B-2															
2/14/91		108.99	--	--	0.00	--	<250	--	180	--	--	--	--	--	--
2/14/92		108.99	--	8.08	0.00	100.91	--	--	--	--	--	--	--	--	--
2/18/92		108.99	--	7.97	0.00	101.02	--	--	--	--	--	--	--	--	--
3/9/92		108.99	--	7.88	0.00	101.11	--	--	--	--	--	--	--	--	--
3/13/92		108.99	--	8.12	0.00	100.87	--	--	--	--	--	--	--	--	--
4/21/92		108.99	--	7.82	0.00	101.17	--	--	--	--	--	--	--	--	--
8/22/95		108.99	--	9.30	0.00	99.69	<250	<750	<50	--	--	--	--	--	--
11/27/95		108.99	--	7.33	0.00	101.66	<250	<750	<50	--	--	--	--	--	<2
3/12/96		108.99	--	8.20	0.00	100.79	<250	<750	<50	--	--	--	--	--	<2
6/27/96		108.99	--	8.95	0.00	100.04	<250	<750	<50	--	--	--	--	--	<2
10/10/96		108.99	--	9.28	0.00	99.71	<250	<750	<50	--	--	--	--	--	<2
2/12/97		108.99	--	7.73	0.00	101.26	<250	<750	<50	--	--	--	--	--	<2
4/22/97		108.99	--	7.41	0.00	101.58	<250	<750	<50	--	--	--	--	--	2

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (ft.)	TPH-DRO ⁴	TPH-HRO ⁴	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead
B-2 (cont.)															
8/5/97		108.99	--	9.40	0.00	99.59	<250	<750	<50	--	--	--	--	--	<2
11/11/97		108.99	--	8.00	0.00	100.99	<250	<750	<50	--	--	--	--	--	<2
2/11/98		108.99	--	7.90	0.00	101.09	<250	<750	<50	--	--	--	--	--	<2
5/28/98		108.99	--	8.03	0.00	100.96	<250	<750	<50	--	--	--	--	--	<1
8/20/98		108.99	--	10.64	0.00	98.35	<250	<750	<50	--	--	--	--	--	<1
11/19/98		108.99	--	8.67	0.00	100.32	<250	<750	<50	--	--	--	--	--	<1
3/11/99		108.99	--	7.56	0.00	101.43	<250	<500	<80	--	--	--	--	--	<1
5/25/99		108.99	--	8.82	0.00	100.17	<250	<1,600	<80	--	--	--	--	--	--
8/17/99		108.99	--	9.51	0.00	99.48	<250	<500	<80	--	--	--	--	--	<1
11/19/99		108.99	--	7.08	0.00	101.91	<250	<500	<80	--	--	--	--	--	<1
3/9/00		108.99	--	7.59	0.00	101.40	<250	<500	<80	--	--	--	--	--	<1
6/12/00		108.99	--	8.00	0.00	100.99	<250	<500	<80	--	--	--	--	--	<1
9/26/00		108.99	--	9.74	0.00	99.25	<250	<500	--	--	--	--	--	--	<1
12/13/00		108.99	--	8.91	0.00	100.08	<250	<500	--	--	--	--	--	--	<1
2/28/01		108.99	--	8.59	0.00	100.40	<250	<500	<80	--	--	--	--	--	<1
5/2/01		108.99	--	7.89	0.00	101.10	<250	<500	<80	--	--	--	--	--	<1
10/30/02		108.99	UNABLE TO LOCATE - PAVED OVER					--	--	--	--	--	--	--	--
1/23/03		108.99	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
4/18/03		108.99	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
7/11/03		108.99	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
10/31/03		108.99	UNABLE TO LOCATE - PAVED OVER					--	--	--	--	--	--	--	--
12/30/03		108.99	--	7.36	0.00	101.63	<50	--	--	<0.5	<0.5	<0.5	<1.5	--	<1.2
5/3/04		108.99	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
7/20/04		108.99	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
10/6/04		108.99	--	7.65	0.00	101.34	<79	<99	<50	--	--	--	--	--	--
7/18/05		108.99	--	9.20	0.00	99.79	<77	<96	<48	--	--	--	--	--	--
10/21/05		108.99	--	9.17	0.00	99.82	<82	<100	<48	--	--	--	--	--	--
9/5/07		108.99	--	9.83	0.00	99.16	<81	<100	<50	--	--	--	--	--	0.1
5/27-28/08		108.99	UNABLE TO LOCATE					--	--	--	--	--	--	--	--
8/27-29/08	LFP	108.99	--	9.28	0.00	99.71	<80	<100	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
11/17-19/08	LFP	108.99	--	7.57	0.00	101.42	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
2/16-18/09	LFP	108.99	--	8.77	0.00	100.22	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.070
5/4-6/09	LFP	108.99	--	7.69	0.00	101.30	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
8/19-21/09	LFP	108.99	--	9.75	0.00	99.24	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
11/18-20/09	LFP	108.99	--	6.46	0.00	102.53	94	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.15
2/8-10/10	LFP	108.99	--	8.10	0.00	100.89	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
5/12-13/10	LFP	108.99	--	8.55	0.00	100.44	<29	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
08/11/10	LFP	108.99	--	9.38	0.00	99.61	<29	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (ft.)	TPH-DRO ⁴	TPH-HRO ⁴	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead
B-2 (cont.)															
11/3-4/10	LFP	108.99	--	7.20	0.00	101.79	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052
2/3-4/11	LFP	108.99	--	8.25	0.00	100.74	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052
05/24/11	LFP	108.99	--	8.33	0.00	100.66	<30	140	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052
8/23-24/11	LFP	108.99	--	9.70	0.00	99.29	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.26
11/7-9/11	LFP	108.99	--	9.30	0.00	99.69	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
2/6-8/12	LFP	108.99	--	7.95	0.00	101.04	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.10
5/2-4/12	LFP	108.99	--	7.40	0.00	101.59	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
8/1-3/12	LFP	108.99	--	8.20	0.00	100.79	<31	<72	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.034
11/26-28/12	LFP	108.99	--	7.47	0.00	101.52	<37	<86	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.047
02/4-6/13	LFP	108.99	--	8.04	0.00	100.95	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073
05/6-8/13	LFP	108.99	--	8.89	0.00	100.10	<28	<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073
9/9-13/13	LFP	108.99	--	8.41	0.00	100.58	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085
11/18-22/13	LFP	108.99	--	7.77	0.00	101.22	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085
2/4-11/14	LFP	108.99	--	8.47	0.00	100.52	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085
6/12-14/14	LFP	108.99	--	8.91	0.00	100.08	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085
8/18-21/14	LFP	108.99	--	9.53	0.00	99.46	<29/<29	<68/<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082
11/19-20/14	LFP	108.99	--	8.54	0.00	100.45	<29/<29	<68/<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082
2/17-20/15	LFP	108.99	--	7.93	0.00	101.06	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082
5/11-15/15	LFP	108.99	--	8.91	0.00	100.08	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.082
8/10-11/15	LFP	108.99	--	10.01	0.00	98.98	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	1.20
11/16-18/15	LFP	108.99	--	5.75	0.00	103.24	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.00060
5/13-14/16	LFP	108.99	--	9.02	0.00	99.97	37	<67	<50	<0.5	<0.5	<0.5	<0.5	--	<0.13
11/14/16	LFP	108.99	--	7.47	0.00	101.52	<28	<66	<50	<0.5	<0.5	<0.5	<0.5	--	<0.090
05/14/17	LFP	108.99	--	7.72	0.00	101.27	<28	<66	<50	<0.5	<0.5	<0.5	<0.5	--	<0.090
B-3															
2/14/91		108.46	--	--	0.00	--	<250	--	98,000	--	--	--	--	--	--
2/14/92		108.46	--	7.82	0.00	100.64	--	--	--	--	--	--	--	--	--
2/18/92		108.46	--	7.82	0.00	100.64	--	--	--	--	--	--	--	--	--
3/9/92		108.46	--	7.55	0.00	100.91	--	--	--	--	--	--	--	--	--
3/13/92		108.46	--	7.82	0.00	100.64	31,000	--	28,000	--	--	--	--	--	--
4/21/92		108.46	--	7.50	0.00	100.96	--	--	--	--	--	--	--	--	--
3/3/94		108.46	--	--	0.00	--	3,940	<750	43,000	--	--	--	--	--	--
8/23/95		108.46	--	8.93	0.00	99.53	2,600	<750	46,000	--	--	--	--	--	--
11/28/95		108.46	--	7.12	0.00	101.34	1,500	<750	63,000	--	--	--	--	--	--
3/12/96		108.46	--	7.85	0.00	100.61	900	<750	42,000	--	--	--	--	--	--
6/27/96		108.46	--	8.67	0.00	99.79	1,510	1,080	37,900	--	--	--	--	--	--

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (ft.)	TPH-DRO ⁴	TPH-HRO ⁴	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead
B-3 (cont.)															
10/10/96		108.46	--	8.97	0.00	99.49	729	<750	16,200	--	--	--	--	--	--
2/12/97		108.46	--	7.55	0.00	100.91	4,060	986	35,200	--	--	--	--	--	--
4/22/97		108.46	--	7.30	0.00	101.16	3,980	767	31,900	--	--	--	--	--	--
8/2/97		108.46	--	9.05	0.00	99.41	3,370	1,270	20,400	--	--	--	--	--	--
11/11/97		108.46	--	6.76	0.00	101.70	3,230	777	28,400	--	--	--	--	--	--
2/11/98		108.46	--	7.54	0.00	100.92	3,240	1,460	28,400	--	--	--	--	--	--
5/28/98		108.46	--	7.76	0.00	100.70	3,360	<750	34,600	--	--	--	--	29.5	--
8/20/98		108.46	--	10.30	0.00	98.16	2,150	<750	32,900	--	--	--	--	<1.89	--
11/19/98		108.46	--	8.39	0.00	100.07	6,650	<3,750	23,800	--	--	--	--	--	--
3/11/99		108.46	--	7.15	0.00	101.31	2,920	<5,000	17,000	--	--	--	--	--	--
5/25/99		108.46	--	8.50	0.00	99.96	1,850	--	30,500	--	--	--	--	--	--
8/17/99		108.46	--	9.15	0.00	99.31	2,570	711	29,600	--	--	--	--	--	--
11/19/99		108.46	--	6.76	0.00	101.70	7,880	--	30,700	--	--	--	--	--	--
3/9/00		108.46	--	7.24	0.00	101.22	<250	<500	10,400	--	--	--	--	--	--
6/13/00		108.46	--	8.15	0.00	100.31	<250	<500	23,000	--	--	--	--	--	--
9/26/00		108.46	--	9.35	0.00	99.11	<250	<500	--	--	--	--	--	--	--
12/13/00		108.46	--	8.58	0.00	99.88	<250	<500	21,600	--	--	--	--	--	--
2/28/01		108.46	--	8.28	0.00	100.18	<250	<500	25,700	--	--	--	--	--	--
5/2/01		108.46	--	7.79	0.00	100.67	<250	<500	17,200	--	--	--	--	--	--
10/30/02		108.46	UNABLE TO LOCATE - PAVED OVER					--	--	--	--	--	--	--	--
1/23/03		108.46	UNABLE TO LOCATE - PAVED OVER					--	--	--	--	--	--	--	--
4/18/03		108.46	UNABLE TO LOCATE - PAVED OVER					--	--	--	--	--	--	--	--
7/11/03		108.46	UNABLE TO LOCATE - PAVED OVER					--	--	--	--	--	--	--	--
10/31/03		108.46	UNABLE TO LOCATE - PAVED OVER					--	--	--	--	--	--	--	--
12/30/03		108.46	--	7.04	0.00	101.42	14,000	3,800	<980	<5.0	1.9	130	61	--	17.3
5/3/04		108.46	UNABLE TO LOCATE				--	--	--	--	--	--	--	--	--
7/20/04		108.46	--	9.31	0.00	99.15	1,220	<500	13,200	12.5	<10.0	874	204	--	24.6 ³
10/6/04		108.46	--	8.68	0.00	99.78	1,200	<500	13,000	--	--	--	--	--	--
1/27/05		108.46	--	7.70	0.00	100.76	1,100	<190	6,200	--	--	--	--	--	--
4/12/05		108.46	--	7.21	0.00	101.25	1,200	<100	5,300	--	--	--	--	--	--
7/18/05		108.46	--	8.83	0.00	99.63	1,200	<97	6,400	--	--	--	--	--	--
10/21/05		108.46	--	8.85	0.00	99.61	2,400	<510	8,900	--	--	--	--	--	--
9/4/07		108.46	--	9.41	0.00	99.05	1,500	<200	10,000	--	--	--	--	--	--
5/27-28/08	LFP	108.46	--	8.73	0.00	99.73	2,400	<540	3,700	2	2	98	3	<0.5	20.2
8/27-29/08	LFP	108.46	--	8.85	0.00	99.61	2,400	<98	10,000	5	2	230	17	<0.5	21.5
11/17-19/08	LFP	108.46	--	7.13	0.00	101.33	1,700	<690	7,100	<0.5	<0.5	57	2	<0.5	20

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (ft.)	TPH-DRO ⁴	TPH-HRO ⁴	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead
B-3 (cont.)															
2/16-18/09	LFP	108.46	--	8.40	0.00	100.06	1,900	<340	8,800	180	130	130	21	<0.5	19.5
5/4-6/09	LFP	108.46	--	7.65	0.00	100.81	2,400	<340	5,800	68	15	120	7	<0.5	13.1
8/19-21/09	LFP	108.46	--	9.33	0.00	99.13	2,900	<360	5,900	39	10	170	16	<0.5	19
11/18-20/09	LFP	108.46	--	6.35	0.00	102.11	2,200	<340	2,500	1	<0.5	12	1	<0.5	16.5
2/8-10/10	LFP	108.46	--	7.73	0.00	100.73	1,700	140	6,200	2	<0.5	25	1	<0.5	9.9
5/12-13/10	LFP	108.46	--	8.18	0.00	100.28	1,200	<68	8,200	2	<0.5	47	2	<0.5	10.3
08/11/10	LFP	108.46	--	9.00	0.00	99.46	2,700	<340	5,900	7	1.0	270	20	<0.5	19.3
11/3-4/10	LFP	108.46	--	6.96	0.00	101.50	2,500	<350	3,100	0.60	<0.5	24	1	<0.5	13.3
2/3-4/11	LFP	108.46	--	6.70	0.00	101.76	1,400	<340	4,900	0.80	<0.5	53	2	<0.5	10.2
05/24/11	LFP	108.46	--	7.96	0.00	100.50	1,200	300	1,800	1	<0.5	76	3	<0.5	14
8/23-24/11	LFP	108.46	--	9.24	0.00	99.22	960	<72	3,700	8	2	160	8	<0.5	11.7
11/7-9/11	LFP	108.46	--	8.95	0.00	99.51	1,500	460	5,800	7	2	180	6	<0.5	12.3
2/6-8/12	LFP	108.46	--	7.40	0.00	101.06	<31	<71	<50	<0.5	<0.5	<0.5	<0.5	<0.5	4.4
5/2-4/12	LFP	108.46	--	7.50	0.00	100.96	53	<72	1,300	<0.5	<0.5	19	<0.5	0.7	3.9
8/1-3/12	LFP	108.46	--	8.24	0.00	100.22	460	110	600	0.6	<0.5	1	<0.5	<0.5	8.0
11/26-28/12	LFP	108.46	--	6.98	0.00	101.48	73	<68	500	<0.5	<0.5	0.8	<0.5	<0.5	7.4
2/4-6/13	LFP	108.46	--	6.33	0.00	102.13	45	<66	120	<0.5	<0.5	<0.5	<0.5	<0.5	5.6
05/6-8/13	LFP	108.46	--	8.50	0.00	99.96	150	<67	2,600	<0.5	<0.5	73	3	<0.5	8.9
9/9-13/13	LFP	108.46	--	8.09	0.00	100.37	160/ 2,700	<66/72	1,700	0.6	<0.5	37	0.9	<0.5	16.0
11/18-22/13	LFP	108.46	--	6.45	0.00	102.01	42/ 1,600	<67/180	190	<0.5	<0.5	<0.5	<0.5	<0.5	11.2
2/4-11/14	LFP	108.46	--	8.10	0.00	100.36	36/ 730	<67/<67	480	<0.5	<0.5	2	<0.5	<0.5	7.4
6/12-14/14	LFP	108.46	--	8.69	0.00	99.77	100/ 780	<66/100	260	<0.5	<0.5	1	<0.5	<0.5	8.3
8/18-21/14	LFP	108.46	--	9.23	0.00	99.23	180/ 1,000	<68/170	1,000	<0.5	<0.5	9	0.7	<0.5	8.9
11/19-20/14	LFP	108.46	--	8.17	0.00	100.29	130/ 1,400	<67/160	900	<0.5	<0.5	7	<0.5	<0.5	13.4
2/17-20/15	LFP	108.46	--	6.36	0.00	102.10	150/490	<66/180	650	<0.5	<0.5	<0.5	<0.5	<0.5	2.9
5/11-15/15	LFP	108.46	--	8.16	0.00	100.30	120/690	<66/<66	1,400	<0.5	<0.5	33	0.9	<0.5	0.0081
8/10-11/15	LFP	108.46	--	9.59	0.00	98.87	130/ 2,000	<67/ 550	660	<0.5	<0.5	5	0.5	<0.5	9.5
11/16-18/15	LFP	108.46	--	5.58	0.00	102.88	57/ 1,200	<67/180	880	<0.5	<0.5	2	<0.5	<0.5	0.0185
5/13-14/16	LFP	108.46	--	8.64	0.00	99.82	38/ 650	<67/220	400	<0.5	<0.5	1	<0.5	--	5.1
11/14/16	LFP	108.46	--	7.45	0.00	101.01	<29/380	<67/<67	560	<0.5	<0.5	1	<0.5	--	10.6
05/14/17	LFP	108.46	--	7.44	0.00	101.02	<28/92	<66/<66	230	<0.5	<0.5	1	<0.5	--	2.3
B-4															
2/14/91		107.68	--	--	0.00	--	<250	--	33,000	--	--	--	--	--	--
2/14/92		107.68	--	6.82	0.00	100.86	--	--	--	--	--	--	--	--	--
2/18/92		107.68	--	5.94	0.00	101.74	--	--	--	--	--	--	--	--	--
3/9/92		107.68	--	6.62	0.00	101.06	--	--	--	--	--	--	--	--	--

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (ft.)	TPH-DRO ⁴	TPH-HRO ⁴	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead
B-4 (cont.)															
3/13/92		107.68	--	6.88	0.00	100.80	--	--	21,000	--	--	--	--	--	--
4/21/92		107.68	--	6.57	0.00	101.11	--	--	--	--	--	--	--	--	--
3/3/94		107.68	--	--	0.00	--	1,040	1,250	15,800	--	--	--	--	--	--
8/22/95		107.68	--	7.92	0.00	99.76	840	820	22,000	--	--	--	--	--	--
11/28/95		107.68	--	6.11	0.00	101.57	1,900	990	22,000	--	--	--	--	--	3.1
3/12/96		107.68	--	6.85	0.00	100.83	3,200	2,500	11,000	--	--	--	--	--	4.7
6/26/96		107.68	--	7.58	0.00	100.10	757	<750	16,100	--	--	--	--	--	2.83
10/9/96		107.68	--	7.90	0.00	99.78	543	<750	10,200	--	--	--	--	--	4.13
2/12/97		107.68	--	6.01	0.00	101.67	4,710	4,830	12,200	--	--	--	--	--	2.82
4/22/97		107.68	--	10.10	0.00	97.58	5,840	1,191	15,500	--	--	--	--	--	4.18
8/5/97		107.68	--	8.37	0.00	99.31	2,560	3,160	15,800	--	--	--	--	--	6.26
11/11/97		107.68	--	7.67	0.00	100.01	2,080	1,040	31,100	--	--	--	--	--	4.75
2/11/98		107.68	--	6.45	0.00	101.23	1,340	1,630	3,750	--	--	--	--	--	<2.0
5/28/98		107.68	--	7.25	0.00	100.43	3,180	1,250	2,510	--	--	--	--	--	4.69
8/20/98		107.68	--	9.12	0.00	98.56	1,460	1,240	7,240	--	--	--	--	--	1.17
11/19/98		107.68	--	7.22	0.00	100.46	2,470	3,750	1,880	--	--	--	--	--	<1.0
3/11/99		107.68	--	5.41	0.00	102.27	1,130	585	11,900	--	--	--	--	--	3.54
5/25/99		107.68	--	7.45	0.00	100.23	<1,450	--	5,380	--	--	--	--	--	--
8/17/99		107.68	--	8.06	0.00	99.62	670	868	2,700	--	--	--	--	--	2.3
11/19/99		107.68	--	5.75	0.00	101.93	1,700	--	11,400	--	--	--	--	--	17.5
3/9/00		107.68	--	6.34	0.00	101.34	<1,250	2,830	105,000	--	--	--	--	--	10.9
6/13/00		107.68	--	6.80	0.00	100.88	<250	943	8,810	--	--	--	--	--	6.92
9/26/00		107.68	--	8.31	0.00	99.37	<250	0.565	--	--	--	--	--	--	5
12/13/00		107.68	--	7.54	0.00	100.14	1,250	<500	--	--	--	--	--	--	5.98
2/28/01		107.68	--	7.24	0.00	100.44	<250	<500	12,100	--	--	--	--	--	5.34
5/2/01		107.68	--	6.59	0.00	101.09	15,700	757	12,300	--	--	--	--	--	5.75
10/30/02		107.68	UNABLE TO LOCATE - PAVED OVER												
1/23/03		107.68	UNABLE TO LOCATE - PAVED OVER												
4/18/03		107.68	UNABLE TO LOCATE - PAVED OVER												
7/11/03		107.68	UNABLE TO LOCATE - PAVED OVER												
10/31/03		107.68	UNABLE TO LOCATE - PAVED OVER												
12/30/03		107.68	--	6.07	0.00	101.61	17,000	2,000	1,700	<10	<5.0	310	370	--	7.5
5/3/04		107.68	UNABLE TO LOCATE - PAVED OVER												
7/20/04		107.68	--	8.23	0.00	99.45	<250	<500	4,660	15.1	1.3	42.3	10.1	--	--
10/6/04		107.68	--	7.45	0.00	100.23	390	180	2,300	--	--	--	--	--	--
1/27/05		107.68	--	6.72	0.00	100.96	200	<195	2,800	--	--	--	--	--	--

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COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (ft.)	TPH-DRO ⁴	TPH-HRO ⁴	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead
B-4 (cont.)															
4/12/05		107.68	--	6.62	0.00	101.06	340	<100	2,600	--	--	--	--	--	--
7/18/05		107.68	--	6.62	0.00	101.06	560	<1,100	1,600	--	--	--	--	--	--
10/21/05		107.68	--	7.81	0.00	99.87	190	260	1,800	--	--	--	--	--	--
9/4/07		107.68	--	8.40	0.00	99.28	310	<100	3,200	--	--	--	--	--	1.8
9/4/07 (D)		107.68	--	8.40	0.00	99.28	340	140	3,300	--	--	--	--	--	1.7
5/27-28/08	LFP	107.68	--	7.52	0.00	100.16	310	330	1,800	3	3	25	7	<0.5	2.9
8/27-29/08	LFP	107.68	--	7.88	0.00	99.80	330	1,100	3,100	1	0.9	22	4	<0.5	1.6
11/17-19/08	LFP	107.68	--	6.26	0.00	101.42	700	2,600	3,500	1	0.7	27	3	<0.5	2.3
2/16-18/09	LFP	107.68	--	7.40	0.00	100.28	440	480	2,000	0.6	<0.5	11	2	<0.5	2
5/4-6/09	LFP	107.68	--	6.46	0.00	101.22	590	1,300	2,100	<0.5	<0.5	20	2	<0.5	1.6
8/19-21/09	LFP	107.68	--	8.35	0.00	99.33	590	810	910	1	<0.5	5	1	<0.5	1.2
11/18-20/09	LFP	107.68	--	5.30	0.00	102.38	490	450	5,700	3	0.7	36	3	<0.5	5.2
2/8-10/10	LFP	107.68	--	6.78	0.00	100.90	400	1,400	350	<0.5	<0.5	4	<0.5	<0.5	0.46
5/12-13/10	LFP	107.68	--	7.23	0.00	100.45	940	7,100	360	<0.5	<0.5	1	<0.5	<0.5	0.15
08/11/10	LFP	107.68	--	8.00	0.00	99.68	600	2,000	170	<0.5	<0.5	1	<0.5	<0.5	0.26
11/3-4/10	LFP	107.68	--	6.19	0.00	101.49	400	1,500	530	<0.5	<0.5	4	0.7	<0.5	1
2/3-4/11	LFP	107.68	--	7.15	0.00	100.53	1,400	4,700	2,200	0.9	0.7	11	1	<0.5	2.9
05/24/11	LFP	107.68	--	7.22	0.00	100.46	300	680	840	<0.5	<0.5	0.8	<0.5	<0.5	1.2
8/23-24/11	LFP	107.68	--	8.50	0.00	99.18	230	<68	1,400	<0.5	<0.5	1	0.6	<0.5	1.4
11/7-9/11	LFP	107.68	--	8.15	0.00	99.53	120	360	950	<0.5	<0.5	1	0.5	<0.5	0.57
2/6-8/12	LFP	107.68	--	6.80	0.00	100.88	64	120	320	<0.5	<0.5	2	<0.5	<0.5	1.6
5/2-4/12	LFP	107.68	--	6.75	0.00	100.93	110	72	580	<0.5	<0.05	2	<0.5	<0.5	1.7
8/1-3/12	LFP	107.68	--	8.26	0.00	99.42	100	190	510	<0.5	<0.5	<0.5	<0.5	<0.5	0.83
11/26-28/12	LFP	107.68	--	6.34	0.00	101.34	320	210	1,200	<0.5	<0.5	8	0.7	<0.5	3.0
02/4-6/13	LFP	107.68	--	6.95	0.00	100.73	150	<69	1,600	<0.5	<0.5	4	<0.5	<0.5	2.5
05/6-8/13	LFP	107.68	--	7.53	0.00	100.15	140	<67	2,400	<0.5	<0.5	4	0.5	<0.5	2.4
9/9-13/13	LFP	107.68	--	7.30	0.00	100.38	130/250	<66/110	1,200	<0.5	<0.5	3	0.5	<0.5	1.6
11/18-22/13	LFP	107.68	--	6.76	0.00	100.92	120/150	<67/<67	1,200	<0.5	<0.5	3	<0.5	<0.5	1.9
2/4-11/14	LFP	107.68	--	7.36	0.00	100.32	140/170	<68/<68	1,800	<0.5	<0.5	3	<0.5	<0.5	2.4
6/12-14/14	LFP	107.68	--	7.94	0.00	99.74	120/260	<67/73	1,200	<0.5	<0.5	1	<0.5	<0.5	1.8
8/18-21/14	LFP	107.68	--	8.43	0.00	99.25	140/300	<67/88	1,800	<0.5	<0.5	1	0.5	<0.5	1.4
11/19-20/14	LFP	107.68	--	6.77	0.00	100.91	120/270	<66/<66	1,300	<0.5	<0.5	2	<0.5	<0.5	2.4
2/17-20/15	LFP	107.68	--	6.93	0.00	100.75	95/290	240/470	550	<0.5	<0.5	<0.5	<0.5	<0.5	0.73
5/11-15/15	LFP	107.68	--	7.91	0.00	99.77	130/210	<66/<66	940	<0.5	<0.5	1	<0.5	<0.5	0.0016
8/10-11/15	LFP	107.68	--	8.94	0.00	98.74	66/500	<66/340	600	<0.5	<0.5	<0.5	0.6	<0.5	0.89
11/16-18/15	LFP	107.68	--	4.73	0.00	102.95	130/ 750	270/ 740	2,000	<0.5	<0.5	4	<0.5	<0.5	0.0171

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GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (ft.)	TPH-DRO ⁴	TPH-HRO ⁴	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead
B-4 (cont.)															
5/13-14/16	LFP	107.68	--	7.84	0.00	99.84	120/390	300/550	2,100	<0.5	<0.5	0.9	<0.5	--	0.81
11/14/16	LFP	107.68	--	6.30	0.00	101.38	400/1,000	610/1,000	1,200	<0.5	<0.5	<0.5	<0.5	--	1.00
05/14/17	LFP	107.68	--	6.65	0.00	101.03	520/1,200	1,100/2,500	2,000	<0.5	<0.5	<0.5	<0.5	--	12.8
MW-101															
2/14/92		99.51	--	6.94	--	92.57	33,000	--	45,000	--	--	--	--	--	--
2/18/92		99.51	--	6.88	--	92.63	--	--	--	--	--	--	--	--	--
3/9/92		99.51	--	6.76	--	92.75	--	--	--	--	--	--	--	--	--
3/13/92		99.51	--	7.02	--	92.49	--	--	--	--	--	--	--	--	--
4/21/92		99.51	--	7.73	--	91.78	--	--	--	--	--	--	--	--	--
3/3/94		99.51	--	--	--	--	1,730	<750	73,000	--	--	--	--	--	--
8/22/95		99.51	--	7.90	--	91.61	1,300	<750	12,000	--	--	--	--	--	--
11/28/95		99.51	--	6.12	--	93.39	1,400	<750	49,000	--	--	--	--	--	24
3/12/96		99.51	--	6.86	--	92.65	760	<750	43,000	--	--	--	--	--	9.3
6/26/96		99.51	--	7.59	--	91.92	656	<750	22,000	--	--	--	--	--	8.22
10/9/96		99.51	--	7.85	--	91.66	309	<750	5,800	--	--	--	--	--	4.24
2/12/97		99.51	--	6.55	--	92.96	1,090	<750	33,900	--	--	--	--	--	7.04
4/22/97		99.51	--	6.31	--	93.20	1,870	977	21,500	--	--	--	--	--	7.41
11/11/97		99.51	--	6.76	--	92.75	952	<750	23,400	--	--	--	--	--	11.3
2/11/98		99.51	--	6.78	--	92.73	793	<750	28,400	--	--	--	--	--	6.51
5/28/98		99.51	--	6.91	--	92.60	798	<750	11,900	--	--	--	--	--	4.71
8/20/98		99.51	--	8.30	--	91.21	414	<750	4,400	--	--	--	--	--	1.6
11/19/98		99.51	--	7.69	--	91.82	714	<750	5,820	--	--	--	--	--	1.7
3/11/99		99.51	--	6.17	--	93.34	1,200	<500	38,500	--	--	--	--	--	6.82
5/25/99		99.51	--	100.97	--	-1.46	1,450	--	18,000	--	--	--	--	--	--
8/17/99		99.51	--	7.99	--	91.52	810	750	2,940	--	--	--	--	--	2.9
11/19/99		99.51	--	5.84	--	93.67	1,010	--	16,300	--	--	--	--	--	15.4
3/9/00		99.51	--	6.25	--	93.26	<250	<500	15,800	--	--	--	--	--	13
6/13/00		99.51	--	6.98	--	92.53	<250	<500	4,870	--	--	--	--	--	4.3
9/26/00		99.51	--	8.15	--	91.36	--	<250	<500	--	--	--	--	--	1.88
12/13/00		99.51	--	7.65	--	91.86	988	442	<500	--	--	--	--	--	1.13
2/28/01		99.51	--	7.25	--	92.26	<250	<500	2,710	--	--	--	--	--	2.45
5/2/01		99.51	--	9.55	--	89.96	<250	<500	2,280	--	--	--	--	--	2.6
10/30/02		99.54	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
1/23/03		99.54	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
4/18/03		99.54	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (ft.)	TPH-DRO ⁴	TPH-HRO ⁴	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead
MW-101 (cont.)															
7/11/03		99.54	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
10/31/03		99.54	UNABLE TO LOCATE - POSSIBLY PAVED OVER												
12/30/03		99.54	--	6.04	0.00	93.50	13,000	890	<96	<5.0	0.6	260	290	--	27.9
5/3/04		99.54	UNABLE TO LOCATE - POSSIBLY PAVED OVER												
7/20/04		99.54	--	8.18	0.00	91.36	<250	<500	1,040	3.01	<0.500	0.822	1.21	--	<1.0 ⁵
10/6/04		99.51	--	7.54	0.00	91.97	<81	<100	<260	--	--	--	--	--	--
1/27/05		99.51	--	6.78	0.00	92.73	190	<100	2,900	--	--	--	--	--	--
4/12/05		99.51	--	6.32	0.00	93.19	160	<100	1,700	--	--	--	--	--	--
7/18/05		99.51	--	7.78	0.00	91.73	93	<99	240	--	--	--	--	--	--
10/21/05		99.51	--	7.75	0.00	91.76	110	<100	470	--	--	--	--	--	--
9/5/07		99.51	--	8.22	0.00	91.29	110	140	200	--	--	--	--	--	1.2
5/27-28/08	LFP	99.51	--	7.71	0.00	91.80	<80	<99	410	<0.5	<0.5	0.5	<0.5	<0.5	1.2
8/27-29/08	LFP	99.51	--	7.75	0.00	91.76	<79	<99	450	<0.5	<0.5	<0.5	<0.5	<0.5	0.39
11/17-19/08	LFP	99.51	--	6.33	0.00	93.18	74	<68	520	<0.5	<0.5	1	<0.5	<0.5	1.1
2/16-18/09	LFP	99.51	--	7.43	0.00	92.08	68	<67	590	<0.5	<0.5	<0.5	<0.5	<0.5	0.96
5/4-6/09	LFP	99.51	--	6.93	0.00	92.58	66	<68	370	<0.5	<0.5	<0.5	<0.5	<0.5	0.39
8/19-21/09	LFP	99.51	--	8.16	0.00	91.35	65	<70	510	<0.5	<0.5	<0.5	<0.5	<0.5	0.22
11/18-20/09	LFP	99.51	--	4.97	0.00	94.54	42	<69	84	<0.5	<0.5	<0.5	<0.5	<0.5	1
2/8-10/10	LFP	99.51	--	6.82	0.00	92.69	130	190	970	<0.5	<0.5	1	<0.5	<0.5	2.1
5/12-13/10	LFP	99.51	--	7.32	0.00	92.19	64	<70	470	<0.5	<0.5	<0.5	<0.5	<0.5	0.65
08/12/10	LFP	99.51	--	7.96	0.00	91.55	52	<68	370	<0.5	<0.5	<0.5	<0.5	<0.5	0.24
MONITORING WELL DECOMMISSIONED/SAMPLING DISCONTINUED															

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COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (ft.)	TPH-DRO ⁴	TPH-HRO ⁴	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead
MW-102															
2/14/92		--	--	6.94	0.00	--	--	--	--	--	--	--	--	--	--
2/18/92		--	--	6.88	0.00	--	--	--	--	--	--	--	--	--	--
3/9/92		--	--	6.76	0.00	--	--	--	--	--	--	--	--	--	--
3/13/92		--	--	7.02	0.00	--	--	--	150	--	--	--	--	--	--
4/21/92		--	--	7.72	0.00	--	--	--	--	--	--	--	--	--	--
NOT PART OF MONITORING/SAMPLING PROGRAM															
MW-104															
2/14/92		100.45	--	8.86	0.00	91.59	--	--	--	--	--	--	--	--	--
02/18/92		100.45	--	8.84	0.00	91.61	--	--	--	--	--	--	--	--	--
3/9/92		100.45	--	8.73	0.00	91.72	--	--	--	--	--	--	--	--	--
3/13/92		100.45	--	8.84	0.00	91.61	--	--	<50	--	--	--	--	--	--
4/21/92		100.45	--	8.72	0.00	91.73	--	--	--	--	--	--	--	--	--
8/22/95		100.45	--	9.30	0.00	91.15	<250	<750	<50	--	--	--	--	--	--
11/27/95		100.45	--	8.39	0.00	92.06	--	--	--	--	--	--	--	--	--
3/12/96		100.45	--	8.78	0.00	91.67	--	--	--	--	--	--	--	--	--
6/27/96		100.45	--	9.00	0.00	91.45	--	--	--	--	--	--	--	--	--
10/10/96		100.45	--	9.18	0.00	91.27	--	--	--	--	--	--	--	--	--
2/12/97		100.45	--	8.65	0.00	91.80	<250	<750	<50	--	--	--	--	--	<2.0
4/22/97		100.45	--	8.50	0.00	91.95	<250	<750	<50	--	--	--	--	--	<2.0
8/5/97		100.45	--	9.20	0.00	91.25	<250	<750	<50	--	--	--	--	--	<2.0
11/11/97		100.45	--	8.81	0.00	91.64	<250	<750	<50	--	--	--	--	--	<2.0
2/11/98		100.45	--	8.83	0.00	91.62	<250	<750	<50	--	--	--	--	--	<2.0
5/28/98		100.45	--	8.97	0.00	91.48	<250	<750	<50	--	--	--	--	--	9.54
8/20/98		100.45	--	9.51	0.00	90.94	<250	<750	<50	--	--	--	--	--	<1.0
11/19/98		100.45	--	9.82	0.00	90.63	<250	<750	<50	--	--	--	--	--	<1.0
3/11/99		100.45	--	8.48	0.00	91.97	<250	<500	<80	--	--	--	--	--	<1.0
5/25/99		100.45	--	8.96	0.00	91.49	<250	--	<80	--	--	--	--	--	--
8/17/99		100.45	--	9.24	0.00	91.21	<250	<500	<80	--	--	--	--	--	<1.0
11/19/99		100.45	--	8.40	0.00	92.05	<250	--	<80	--	--	--	--	--	1.0
3/9/00		100.45	--	8.49	0.00	91.96	<250	<50	<80	--	--	--	--	--	<1.0
6/13/00		100.45	--	8.89	0.00	91.56	<250	<500	<80	--	--	--	--	--	<1.0
9/26/00		100.45	--	9.32	0.00	91.13	<250	<500	--	--	--	--	--	--	<1.0
12/13/00		100.45	--	9.09	0.00	91.36	<250	<500	--	--	--	--	--	--	<1.0
2/28/01		100.45	--	8.89	0.00	91.56	<250	<500	<80	--	--	--	--	--	<1.0
5/2/01		100.45	--	8.79	0.00	91.66	<250	<500	103	--	--	--	--	--	<1.0

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Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (ft.)	TPH-DRO ⁴	TPH-HRO ⁴	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead
MW-104 (cont.)															
10/30/02		100.44	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
1/23/03		100.44	MONITORED/SAMPLED ANNUALLY												
4/18/03		100.44	MONITORED/SAMPLED ANNUALLY												
7/11/03		100.44	MONITORED/SAMPLED ANNUALLY												
10/31/03		100.44	--	9.15	0.00	91.29	<250	<500	<50	<0.500	<0.500	<0.500	<1.00	--	<1.0 ⁵
12/30/03		100.44	--	8.39	0.00	92.05	<50	<77	<96	<0.5	<0.5	<0.5	<1.5	--	<1.2
5/3/04		100.44	MONITORED/SAMPLED ANNUALLY												
7/20/04		100.44	MONITORED/SAMPLED ANNUALLY												
10/7/04		100.45	--	9.09	0.00	91.36	<83	<100	<50	--	--	--	--	--	--
10/20/05		100.45	--	9.19	0.00	91.26	<82	<100	<48	--	--	--	--	--	--
9/6/07		100.45	--	9.42	0.00	91.03	<79	<98	<50	--	--	--	--	--	0.087
5/27-28/08		100.45	INACCESSIBLE			--	--	--	--	--	--	--	--	--	--
8/27-29/08	LFP	100.45	--	9.23	0.00	91.22	<79	<99	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
11/17-19/08	LFP	100.46	--	8.75	0.00	91.71	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
2/16-18/09	LFP	100.46	--	9.01	0.00	91.45	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.1
5/4-6/09	LFP	100.46	--	8.88	0.00	91.58	38	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
8/19-21/09	LFP	100.46	--	9.32	0.00	91.14	<29	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.057
11/18-20/09	LFP	100.46	--	8.08	0.00	92.38	<29	<68	98	<0.5	<0.5	<0.5	<0.5	<0.5	0.11
2/8-10/10	LFP	100.46	--	8.76	0.00	91.70	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.053
MONITORING WELL DECOMMISSIONED/SAMPLING DISCONTINUED															
MW-105															
2/14/92		96.14	--	3.36	0.00	92.78	--	--	--	--	--	--	--	--	--
2/18/92		96.14	--	3.34	0.00	92.80	--	--	--	--	--	--	--	--	--
3/9/92		96.14	--	3.25	0.00	92.89	--	--	--	--	--	--	--	--	--
3/13/92		96.14	--	3.60	0.00	92.54	--	--	<50	--	--	--	--	--	--
4/21/92		96.14	--	3.40	0.00	92.74	--	--	--	--	--	--	--	--	--
8/22/95		96.14	--	5.08	0.00	91.06	<250	900	<50	--	--	--	--	--	--
11/28/95		96.14	--	2.53	0.00	93.61	--	--	--	--	--	--	--	--	--
3/12/96		96.14	--	3.37	0.00	92.77	--	--	--	--	--	--	--	--	--
6/26/96		96.14	--	4.74	0.00	91.40	--	--	--	--	--	--	--	--	--
10/9/96		96.14	--	4.93	0.00	91.21	--	--	--	--	--	--	--	--	--
2/12/97		96.14	--	3.19	0.00	92.95	<250	<750	<50	--	--	--	--	--	2
4/22/97		96.14	--	3.08	0.00	93.06	<250	<750	<50	--	--	--	--	--	2
8/5/97		96.14	--	4.85	0.00	91.29	<250	<750	<50	--	--	--	--	--	2
11/11/97		96.14	--	3.11	0.00	93.03	<250	<750	<50	--	--	--	--	--	2

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (ft.)	TPH-DRO ⁴	TPH-HRO ⁴	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead
MW-105 (cont.)															
2/11/98		96.14	--	3.24	0.00	92.90	<250	<750	<50	--	--	--	--	--	2
5/28/98		96.14	--	3.91	0.00	92.23	<250	<750	<50	--	--	--	--	--	6.62
8/20/98		96.14	--	5.28	0.00	90.86	<250	<750	<50	--	--	--	--	--	<1.00
11/19/98		96.14	--	5.37	0.00	90.77	<250	<750	<50	--	--	--	--	--	<1.00
3/11/99		96.14	--	2.43	0.00	93.71	<250	<500	<80	--	--	--	--	--	<1.00
5/25/99		96.14	--	4.29	0.00	91.85	<250	--	<80	--	--	--	--	--	--
8/17/99		96.14	--	5.06	0.00	91.08	<250	<500	<80	--	--	--	--	--	<1.00
11/19/99		96.14	--	3.08	0.00	93.06	<250	--	<80	--	--	--	--	--	<1.00
3/9/00		96.14	--	2.75	0.00	93.39	<250	<500	<80	--	--	--	--	--	<1.00
6/13/00		96.14	--	4.45	0.00	91.69	<250	<500	<80	--	--	--	--	--	<1.00
9/26/00		96.14	--	5.20	0.00	90.94	<250	<500	--	--	--	--	--	--	<1.00
12/13/00		96.14	--	4.67	0.00	91.47	<250	<500	--	--	--	--	--	--	1.37
2/28/01		96.14	--	3.92	0.00	92.22	<250	<500	<80	--	--	--	--	--	<1.00
5/2/01		96.14	--	3.53	0.00	92.61	<250	<750	87	--	--	--	--	--	<1.00
10/30/02		96.15	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
1/23/03		96.15	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--	--	--	--
4/18/03		96.15	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--	--	--	--
7/11/03		96.15	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--	--	--	--
10/31/03		96.15	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
12/31/03		96.15	--	2.45	0.00	93.70	<50	<400	<500	<0.5	<0.5	<0.5	<1.5	--	<1.2
5/3/04		96.15	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--	--	--	--
7/20/04		96.15	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--	--	--	--
10/7/04		96.14	--	4.71	0.00	91.43	<160	<200	<50	--	--	--	--	--	--
10/20/05		96.14	--	5.16	0.00	90.98	<82	<100	<48	--	--	--	--	--	--
9/6/07		96.14	--	5.34	0.00	90.80	<100	<81	<50	--	--	--	--	--	0.47
5/27-28/08		96.14	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
8/27-29/08	LFP	96.14	--	5.16	0.00	90.98	<81	<100	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
11/17-19/08	LFP	96.14	--	3.75	0.00	92.39	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
2/16-18/09	LFP	96.14	--	6.15	0.00	89.99	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.57
5/4-6/09	LFP	96.14	--	3.68	0.00	92.46	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
8/19-21/09	LFP	96.14	--	5.25	0.00	90.89	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.064
11/18-20/09	LFP	96.14	--	1.56	0.00	94.58	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.053
2/8-10/10	LFP	96.14	--	3.37	0.00	92.77	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.078
MONITORING WELL DECOMMISSIONED/SAMPLING DISCONTINUED															

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GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (ft.)	TPH-DRO ⁴	TPH-HRO ⁴	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead
MW-106															
2/14/92		99.71	--	8.18	0.00	91.53	--	--	--	--	--	--	--	--	--
2/18/92		99.71	--	8.20	0.00	91.51	--	--	--	--	--	--	--	--	--
3/9/92		99.71	--	8.04	0.00	91.67	--	--	--	--	--	--	--	--	--
3/13/92		99.71	--	8.18	0.00	91.53	--	--	<50	--	--	--	--	--	--
4/21/92		99.71	--	8.02	0.00	91.69	--	--	--	--	--	--	--	--	--
8/22/95		99.71	--	8.79	0.00	90.92	<250	<750	<50	--	--	--	--	--	--
11/28/95		99.71	--	7.63	0.00	92.08	--	--	--	--	--	--	--	--	--
3/12/96		99.71	--	8.04	0.00	91.67	<250	<750	<50	--	--	--	--	--	<2.0
6/26/96		99.71	--	8.61	0.00	91.10	<250	<750	<50	--	--	--	--	--	<2.0
10/9/96		99.71	--	8.65	0.00	91.06	<250	<750	<50	--	--	--	--	--	2.16
2/12/97		99.71	--	7.95	0.00	91.76	<250	<750	<50	--	--	--	--	--	<2.0
4/22/97		99.71	--	7.73	0.00	91.98	<250	<750	<50	--	--	--	--	--	<2.0
8/5/97		99.71	--	8.68	0.00	91.03	<250	<750	<50	--	--	--	--	--	<2.0
11/11/97		99.71	--	8.07	0.00	91.64	<250	<750	<50	--	--	--	--	--	<2.0
2/11/98		99.71	--	8.12	0.00	91.59	<250	<750	<50	--	--	--	--	--	<2.0
5/28/98		99.71	--	8.35	0.00	91.36	<250	<750	<50	--	--	--	--	--	4.53
8/20/98		99.71	--	8.96	0.00	90.75	<250	<750	<50	--	--	--	--	--	<1.0
11/19/98		99.71	--	9.37	0.00	90.34	<250	<750	<50	--	--	--	--	--	<1.0
3/11/99		99.71	--	7.70	0.00	92.01	<250	<50	<80	--	--	--	--	--	1.1
5/25/99		99.71	--	8.32	0.00	91.39	<250	--	<80	--	--	--	--	--	--
8/17/99		99.71	--	8.70	0.00	91.01	<250	<500	<80	--	--	--	--	--	<1.0
11/19/99		99.71	--	7.88	0.00	91.83	<250	--	<80	--	--	--	--	--	<1.0
3/9/00		99.71	--	7.74	0.00	91.97	<250	<500	<80	--	--	--	--	--	<1.0
6/13/00		99.71	--	8.39	0.00	91.32	<250	<500	<80	--	--	--	--	--	<1.0
9/26/00		99.71	--	8.79	0.00	90.92	<250	<500	--	--	--	--	--	--	<1.0
12/13/00		99.71	--	8.51	0.00	91.20	<250	<500	--	--	--	--	--	--	<1.0
2/28/01		99.71	--	8.18	0.00	91.53	<250	<500	<80	--	--	--	--	--	<2.0
5/2/01		99.71	--	8.17	0.00	91.54	<250	<500	88	--	--	--	--	--	<1.0
10/30/02		99.73	--	8.98	0.00	90.75	<250	<500	<80	<0.500	<0.500	<0.500	<1.00	--	<1.0
1/23/03		99.73	MONITORED/SAMPLED ANNUALLY												
4/18/03		99.73	MONITORED/SAMPLED ANNUALLY												
7/11/03		99.73	MONITORED/SAMPLED ANNUALLY												
10/31/03		99.73	--	8.52	0.00	91.21	<250	<500	<50	<0.500	<0.500	<0.500	<1.00	--	<1.0 ⁵
12/31/03		99.73	--	7.54	0.00	92.19	<50	<78	<98	<0.5	<0.5	<0.5	<1.5	--	<1.2

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (ft.)	TPH-DRO ⁴	TPH-HRO ⁴	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead
MW-106 (cont.)															
5/3/04		99.73	MONITORED/SAMPLED ANNUALLY												
7/20/04		99.73	MONITORED/SAMPLED ANNUALLY												
10/7/04		99.71	--	8.50	0.00	91.21	<78	<97	<50	--	--	--	--	--	--
10/20/05		99.71	--	8.70	0.00	91.01	<82	<100	<48	--	--	--	--	--	--
9/6/07		99.71	--	8.88	0.00	90.83	<80	<100	<50	--	--	--	--	--	0.13
5/27-28/08		99.71	INACCESSIBLE												
8/27-29/08	LFP	99.71	--	8.72	0.00	90.99	<79	<99	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
11/17-19/08	LFP	99.71	--	8.18	0.00	91.53	30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
2/16-18/09	LFP	99.71	--	8.40	0.00	91.31	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.072
5/4-6/09	LFP	99.71	--	8.30	0.00	91.41	<29	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
8/19-21/09	LFP	99.71	--	8.65	0.00	91.06	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
11/18-20/09	LFP	99.71	--	7.40	0.00	92.31	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.11
2/8-10/10	LFP	99.71	--	8.05	0.00	91.66	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
MONITORING WELL DECOMMISSIONED/SAMPLING DISCONTINUED															
MW-107															
2/14/92		100.00	--	8.50	0.00	91.50	--	--	--	--	--	--	--	--	--
2/18/92		100.00	--	8.50	0.00	91.50	--	--	--	--	--	--	--	--	--
3/9/92		100.00	--	8.36	0.00	91.64	--	--	--	--	--	--	--	--	--
3/13/92		100.00	--	8.52	0.00	91.48	--	--	<50	--	--	--	--	--	--
4/21/92		100.00	--	8.36	0.00	91.64	--	--	--	--	--	--	--	--	--
8/22/95		100.00	--	9.06	0.00	90.94	<250	<750	<50	--	--	--	--	--	--
11/28/95		100.00	--	8.00	0.00	92.00	--	--	--	--	--	--	--	--	--
3/12/96		100.00	--	8.36	0.00	91.64	--	--	--	--	--	--	--	--	--
6/26/96		100.00	--	8.89	0.00	91.11	--	--	--	--	--	--	--	--	--
10/9/96		100.00	--	8.94	0.00	91.06	--	--	--	--	--	--	--	--	--
2/12/97		100.00	--	8.25	0.00	91.75	<250	<750	<50	--	--	--	--	--	<2.0
4/22/97		100.00	--	8.05	0.00	91.95	<250	<750	<50	--	--	--	--	--	<2.0
8/5/97		100.00	--	8.95	0.00	91.05	<250	<809	<50	--	--	--	--	--	<2.0
11/11/97		100.00	--	8.37	0.00	91.63	<250	750	<50	--	--	--	--	--	<2.0
2/11/98		100.00	--	8.44	0.00	91.56	351	750	<50	--	--	--	--	--	<2.0
5/28/98		100.00	--	8.73	0.00	91.27	<250	754	<50	--	--	--	--	--	--
8/20/98		100.00	--	9.24	0.00	90.76	<250	750	<50	--	--	--	--	--	1
11/19/98		100.00	--	9.65	0.00	90.35	<250	750	<50	--	--	--	--	--	<1.0
3/11/99		100.00	--	8.08	0.00	91.92	539	750	<80	--	--	--	--	--	<1.0
5/25/99		100.00	--	8.82	0.00	91.18	<250	<500	<80	--	--	--	--	--	--

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (ft.)	TPH-DRO ⁴	TPH-HRO ⁴	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead
MW-107 (cont.)															
8/17/99		100.00	--	8.10	0.00	91.90	<250	--	<80	--	--	--	--	--	<1.0
11/19/99		100.00	--	8.21	0.00	91.79	<250	<500	<80	--	--	--	--	--	<1.0
3/9/00		100.00	--	8.08	0.00	91.92	<250	--	<80	--	--	--	--	--	<1.0
6/13/00		100.00	--	8.88	0.00	91.12	<250	<500	<80	--	--	--	--	--	<1.0
9/26/00		100.00	--	9.07	0.00	90.93	<250	<500	--	--	--	--	--	--	<1.0
12/13/00		100.00	--	8.78	0.00	91.22	<250	<500	--	--	--	--	--	--	<1.0
2/28/01		100.00	--	8.63	0.00	91.37	<250	<500	<80	--	--	--	--	--	<1.0
5/2/01		100.00	--	8.63	0.00	91.37	<250	<500	88	--	--	--	--	--	<1.0
10/30/02		100.00	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
1/23/03		100.00	MONITORED/SAMPLED ANNUALLY												
4/18/03		100.00	MONITORED/SAMPLED ANNUALLY												
7/11/03		100.00	MONITORED/SAMPLED ANNUALLY												
10/31/03		100.00	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
12/31/03		100.00	--	7.92	0.00	92.08	<50	85	150	<0.5	<0.5	<0.5	<1.5	--	<1.2
5/3/04		100.00	MONITORED/SAMPLED ANNUALLY												
7/20/04		100.00	MONITORED/SAMPLED ANNUALLY												
10/7/04		100.00	--	8.78	0.00	91.22	<80	<100	<50	--	--	--	--	--	--
10/20/05		100.00	--	8.97	0.00	91.03	<81	<100	<48	--	--	--	--	--	--
9/6/07		100.00	--	9.18	0.00	90.82	<78	<98	<50	--	--	--	--	--	0.07
5/27-28/08		100.00	INACCESSIBLE			--	--	--	--	--	--	--	--	--	--
8/27-29/08	LFP	100.00	--	8.98	0.00	91.02	<79	<99	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
11/17-19/08	LFP	100.00	--	8.46	0.00	91.54	38	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
2/16-18/09	LFP	100.00	--	8.62	0.00	91.38	35	70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.068
5/4-6/09	LFP	100.00	--	8.95	0.00	91.05	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
8/19-21/09	LFP	100.00	--	9.11	0.00	90.89	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.27
11/18-20/09	LFP	100.00	--	7.77	0.00	92.23	99	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
2/8-10/10	LFP	100.00	--	8.25	0.00	91.75	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
MONITORING WELL DECOMMISSIONED/SAMPLING DISCONTINUED															

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GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (ft.)	TPH-DRO ⁴	TPH-HRO ⁴	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead	
MW-108																
2/14/92		99.79	--	8.10	0.00	91.69	--	--	--	--	--	--	--	--	--	
2/18/92		99.79	--	8.62	0.00	91.17	--	--	--	--	--	--	--	--	--	
3/9/92		99.79	--	8.49	0.00	91.30	--	--	--	--	--	--	--	--	--	
3/13/92		99.79	--	8.63	0.00	91.16	--	--	<50	--	--	--	--	--	--	
4/21/92		99.79	--	8.47	0.00	91.32	--	--	--	--	--	--	--	--	--	
8/22/95		99.79	--	9.04	0.00	90.75	<250	<750	<50	--	--	--	--	--	--	
11/28/95		99.79	--	7.98	0.00	91.81	--	--	--	--	--	--	--	--	--	
3/12/96		99.79	--	8.50	0.00	91.29	--	--	--	--	--	--	--	--	--	
6/26/96		99.79	--	8.86	0.00	90.93	--	--	--	--	--	--	--	--	--	
10/9/96		99.79	--	8.91	0.00	90.88	--	--	--	--	--	--	--	--	--	
2/12/97		99.79	--	8.41	0.00	91.38	<250	<750	<50	--	--	--	--	--	<2.0	
4/22/97		99.79	--	8.08	0.00	91.71	<250	<750	<50	--	--	--	--	--	<2.0	
8/5/97		99.79	--	8.94	0.00	90.85	<250	825	<50	--	--	--	--	--	<2.0	
11/11/97		99.79	--	8.53	0.00	91.26	<250	<750	<50	--	--	--	--	--	<2.0	
2/11/98		99.79	--	8.59	0.00	91.20	<250	873	<50	--	--	--	--	--	<2.0	
5/28/98		99.79	--	8.72	0.00	91.07	<250	<750	<50	--	--	--	--	--	4.27	
8/20/98		99.79	--	9.20	0.00	90.59	<250	<750	<50	--	--	--	--	--	<1.0	
11/19/98		99.79	--	9.60	0.00	90.19	<250	<750	<50	--	--	--	--	--	<1.0	
3/11/99		99.79	--	8.16	0.00	91.63	<250	<500	<80	--	--	--	--	--	<1.0	
5/25/99		99.79	--	8.69	0.00	91.10	<250	--	<80	--	--	--	--	--	--	
8/17/99		99.79	--	8.96	0.00	90.83	<250	<500	<80	--	--	--	--	--	<1.0	
11/19/99		99.79	--	8.08	0.00	91.71	<250	--	<80	--	--	--	--	--	<1.0	
3/9/00		99.79	--	8.16	0.00	91.63	<250	<500	<80	--	--	--	--	--	<1.0	
6/13/00		99.79	--	8.69	0.00	91.10	<250	<500	<80	--	--	--	--	--	<1.0	
9/26/00		99.79	--	9.04	0.00	90.75	<250	<500	--	--	--	--	--	--	<1.0	
12/13/00		99.79	--	8.81	0.00	90.98	<250	<500	--	--	--	--	--	--	<1.0	
2/28/01		99.79	--	8.60	0.00	91.19	<250	<500	<80	--	--	--	--	--	<1.0	
5/2/01		99.79	--	8.53	0.00	91.26	<250	<500	<80	--	--	--	--	--	<1.0	
10/30/02		99.79	--	9.24	0.00	90.55	<250	<500	<80	<0.500	<0.500	<0.500	<1.0	--	<1.0	
1/23/03		99.79	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--	--
4/18/03		99.79	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--	--
7/11/03		99.79	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--	--
10/31/03		99.79	--	8.82	0.00	90.97	<250	<500	<50.0	<0.500	<0.500	<0.500	<1.0	--	<1.0 ⁵	
12/31/03		99.79	--	7.95	0.00	91.84	<50	<77	<97	<0.5	<0.5	<0.5	<1.5	--	<1.2	

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (ft.)	TPH-DRO ⁴	TPH-HRO ⁴	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead
MW-108 (cont.)															
5/3/04		99.79	MONITORED/SAMPLED ANNUALLY												
7/20/04		99.79	MONITORED/SAMPLED ANNUALLY												
10/7/04		99.79	--	8.80	0.00	90.99	<80	<100	<50	--	--	--	--	--	--
10/20/05		99.79	--	8.89	0.00	90.90	<81	<100	<48	--	--	--	--	--	--
10/20/05(D)		99.79	--	8.89	0.00	90.90	<81	<100	<48	--	--	--	--	--	--
9/6/07		99.79	--	9.15	0.00	90.64	<80	<100	<50	--	--	--	--	--	0.12
5/27-28/08		99.79	INACCESSIBLE												
8/27-29/08	LFP	99.79	--	9.00	0.00	90.79	<78	<98	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
11/17-19/08	LFP	99.79	--	8.48	0.00	91.31	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
2/16-18/09	LFP	99.79	--	8.74	0.00	91.05	1,100	230	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.070
5/4-6/09	LFP	99.79	--	8.62	0.00	91.17	<29	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
8/19-21/09	LFP	99.79	--	9.07	0.00	90.72	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
11/18-20/09	LFP	99.79	--	7.64	0.00	92.15	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
2/8-10/10	LFP	99.79	--	8.50	0.00	91.29	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
MONITORING WELL DECOMMISSIONED/SAMPLING DISCONTINUED															
TRIP BLANK															
10/30/02		--	--	--	--	--	--	--	--	--	--	--	--	--	--
1/23/03		--	--	--	--	--	--	--	<80	<0.500	<0.500	<0.500	<1.0	--	--
4/18/03		--	--	--	--	--	--	--	<50	<0.500	<0.500	<0.500	<1.0	--	--

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COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (ft.)	TPH-DRO ⁴	TPH-HRO ⁴	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead
QA															
7/11/03		--	--	--	--	--	--	--	<50	<0.500	<0.500	<0.500	<1.00	--	--
10/31/03		--	--	--	--	--	--	--	<50	<0.500	<0.500	<0.500	<1.00	--	--
12/31/03		--	--	--	--	--	<50	--	--	<0.5	<0.5	<0.5	<1.5	--	--
5/3/04 ⁶		--	--	--	--	--	--	--	--	--	--	--	--	--	--
7/20/04		--	--	--	--	--	--	--	<50	<0.500	<0.500	<0.500	<1.00	--	--
5/27-28/08		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
8/27-29/08		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/17-19/08		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
2/16-18/09		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
5/4-6/09		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
8/19-21/09		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/18-20/09		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
2/8-10/10		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
5/12-13/10		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/11/10		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/3-4/10		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
2/3-4/11		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/23/11		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
8/23-24/11		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/7-9/11		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
2/6-8/12		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
5/2-4/12		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
8/1-3/12		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/26-28/12		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/4-6/13		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/6-8/13		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
9/9-13/13		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/18-22/13		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
2/4-11/14		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
6/12-14/14		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
8/18-21/14		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/19-20/14		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
2/17-20/14		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
5/11-15/15		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
8/10-11/15		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--

TABLE 1
GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC ² (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE ³ (ft.)	TPH-DRO ⁴	TPH-HRO ⁴	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead
QA (cont.)															
11/16-18/15		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
5/13-14/16		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/14/16		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/14/17		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
Standard Laboratory Reporting Limits:							--	--	50	0.5	0.5	0.5	1.0	0.5	0.5
MTCA Method A Cleanup Levels:							500	500	800/1,000	5	1,000	700	1,000	20	15
Current Method: ⁷							NWTPH-Dx Extended		NWTPH-Gx and USEPA 8260B						USEPA 6020

Abbreviations:

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes
(D) = Duplicate
D. Lead = Dissolved Lead
DTP = Depth to Product
DTW = Depth to Water
(ft.) = Feet
GWE = Groundwater Elevation
LFP = Low Flow Purge

LNAPL = Light Non-Aqueous Phase Liquid
LNAPLT = LNAPL Thickness
(mg/L) = Milligrams per liter
MTBE = Methyl Tertiary Butyl Ether
MTCA = Model Toxics Control Act
QA = Quality Assurance/Trip Blank
T. Lead = Total Lead
TOC = Top of Casing

TPH = Total Petroleum Hydrocarbons
TPH-DRO = TPH as Diesel-Range Organics
TPH-GRO = TPH as Gasoline-Range Organics
TPH-HRO = TPH as Heavy Oil-Range Organics
USEPA = United States Environmental Protection Agency
µg/L = Micrograms per liter
-- = Not Measured/Not Analyzed

Notes:

- 1 Analytical results in bold font indicate concentrations exceed MTCA Method A cleanup levels.
- 2 TOC elevations have been surveyed in feet relative to the 1988 North American Vertical Datum.
- 3 When LNAPL is present, GWE has been corrected using the following formula: $GWE = [(TOC - DTW) + (LNAPLT \times 0.80)]$.
- 4 TPH-DRO and TPH-HRO results with multiple values are reported as follows: with silica gel cleanup/without silica gel cleanup. TPH-DRO and TPH-HRO analyses for monitoring completed between October 2004 and May 2013 was performed with silica gel cleanup. The use of silica gel cleanup for samples collected prior to October 2004 has not been confirmed.
- 5 Laboratory report indicates this sample was laboratory filtered.
- 6 Laboratory indicates they did not receive a QA sample. No results were provided.
- 7 Laboratory analytical methods for historical data may not be consistent with list of current analytical methods. When necessary, consult original laboratory reports to verify methods used.
- 8 Insufficient groundwater to collect sample.

Attachment A:
Groundwater Monitoring and Sampling Data Package



GETTLER-RYAN INC.



TRANSMITTAL

May 24, 2017
G-R #17156773

TO: Mr. Russell Shropshire
Leidos, Inc.
18912 North Creek Parkway, Suite 101
Bothell, Washington 98011

FROM: Deanna L. Harding
Project Coordinator
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 First Semi Annual Event of May 14, 2017

COMMENTS:

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

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



GETTLER - RYAN INC.

CHEVRON - SITE CHECK LIST

Facility#:	Chevron #211556	Date:	5-14-17
Address:	101 Mulford Road		
City/St.:	Toledo, WA		
Status of Site:	Shell station / Empty lot.		

DRUMS:

Please list below ALL DRUMS on site:
(i.e., drum description, condition, labeling, contents and location of drums)



#	Description	Condition	Labeling	Contents/Capacity	Location
1	55 gal drum	OK	NONHAZ	H ₂ O / 100%	behind station
1	↓	↓	↓	↓	↓

WELLS:

Please check the condition of ALL WELLS on site:
(i.e., gaskets, bolts, replaced well plug and/or well lock, well box condition and etc.)

Well ID	Gaskets		Bolts		Replaced Plug Y/N	Replaced Lock Y/N	Well Box			Other
	(M) Missing (R) Replaced	(M) Missing (R) Replaced	(M) Missing (R) Replaced	(M) Missing (R) Replaced			Manufacturer/Size/# of Bolts			
MW-103	OK	OK	N	N			manis	8	3	
MW-109	↓	↓	↓	↓	↓	↓	↓	↓	↓	
MW-110	↓	↓	↓	↓	↓	↓	12			
MW-111	↓	↓	↓	↓	↓	↓	8			
MW-112	↓	↓	↓	↓	↓	↓	↓			
MW-113	↓	↓	↓	↓	↓	↓	12			
MW-114	↓	↓	↓	↓	↓	↓	8			
MW-115	↓	↓	↓	↓	↓	↓	12			
MW-116	↓	↓	↓	↓	↓	↓	8			
MW-117	↓	↓	↓	↓	↓	↓				
MW-118	↓	↓	↓	↓	↓	↓				
MW-119	↓	↓	↓	↓	↓	↓				
MW-120	↓	↓	↓	↓	↓	↓				
B-1	↓	↓	↓	↓	↓	↓				
B-2	↓	↓	↓	↓	↓	↓				
B-3	↓	↓	↓	↓	↓	↓				
B-4	↓	↓	Y	Y	Y	Y	↓	↓	↓	

Additional Comments/Observations: _____

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 (± 0.1 unit), and Ec (± 10 uS) are required to stabilize. Additional parameters that may be required are DO (± 0.2 mg/l) and ORP (± 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.



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #211556
 Site Address: 101 Mulford Road
 City: Toledo, WA

Job Number: 17156773
 Event Date: 5-14-17 (inclusive)
 Sampler: AW

Well ID: MW-103
 Well Diameter: 21.4 in.
 Total Depth: 18.35 ft.
 Depth to Water: 7.87 ft.
10.48 xVF = _____

Date Monitored: 5-14-17

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]: _____

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): _____
 Sample Time/Date: _____ / _____
 Approx. Flow Rate: _____ mlpm
 Did well de-water? _____ If yes, Time: _____

Weather Conditions: _____
 Water Color: _____ Odor: Y / N
 Sediment Description: _____
 Volume: _____ ltrs DTW @ Sampling: _____

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc/NWTPH-Dx
	x 250ml poly	YES	NP	EUROFINS	DISSOLVED LEAD(6020 ICP/MS)
	x 500ml poly	YES	NP	EUROFINS	DISSOLVED LEAD(6020 ICP/MS)

COMMENTS: Depth Pump Set At: M/D

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #211556 Job Number: 17156773
 Site Address: 101 Mulford Road Event Date: 5/14/17 (inclusive)
 City: Toledo, WA Sampler: GM

Well ID: MW-109 Date Monitored: 5/14/17
 Well Diameter: 2.4 in.
 Total Depth: 12.66 ft.
 Depth to Water: 6.70 ft. Check if water column is less than 0.50 ft.
5.96 xVF — = — x3 case volume = Estimated Purge Volume: — gal.

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

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: —

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump X
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters X
 Peristaltic Pump X
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: ED 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): 1150 Weather Conditions: RAIN
 Sample Time/Date: 1230 5/14/17 Water Color: CLEAR Odor: DN SLIGHT
 Approx. Flow Rate: 200 mlpm Sediment Description: SL SILT
 Did well de-water? NO If yes, Time: _____ Volume: _____ ltrs DTW @ Sampling: 6.72

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS mS µmhos/cm)	Temperature (° F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>1208</u>	<u>3.6</u>	<u>6.75</u>	<u>123.8</u>	<u>13.4</u>	<u>0.99</u>	<u>119</u>	<u>6.72</u>
<u>1211</u>	<u>4.2</u>	<u>6.74</u>	<u>123.0</u>	<u>13.1</u>	<u>1.01</u>	<u>121</u>	<u>6.72</u>
<u>1214</u>	<u>4.8</u>	<u>6.72</u>	<u>122.4</u>	<u>13.0</u>	<u>1.09</u>	<u>122</u>	<u>6.72</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-109</u>	<u>6x vov vial</u>	<u>YES</u>	<u>HCL</u>	<u>EUROFINS</u>	<u>NWTPH-Gx/BTEX(8260)</u>
	<u>x 1 liter ambers</u>	<u>YES</u>	<u>HCL</u>	<u>EUROFINS</u>	<u>NWTPH-Dx</u>
	<u>2x 1 liter ambers</u>	<u>YES</u>	<u>HCL</u>	<u>EUROFINS</u>	<u>NWTPH-Dx w/sgc/NWTPH-Dx</u>
	<u>1 x 250ml poly</u>	<u>YES</u>	<u>NP</u>	<u>EUROFINS</u>	<u>DISSOLVED LEAD(6020 ICP/MS)</u>
	<u>x 500ml poly</u>	<u>YES</u>	<u>NP</u>	<u>EUROFINS</u>	<u>DISSOLVED LEAD(6020 ICP/MS)</u>

COMMENTS: Depth Pump Set At: ≈ 10.00ft

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #211556 Job Number: 17156773
 Site Address: 101 Mulford Road Event Date: 5-14-17 (inclusive)
 City: Toledo, WA Sampler: AW

Well ID: MW-110 Date Monitored: 5-14-17
 Well Diameter: 2 (4) in.
 Total Depth: 9.81 ft.
 Depth to Water: 8.40 ft. Check if water column is less than 0.50 ft.
11.41 xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

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

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: _____

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: _____
 Sample Time/Date: _____ / _____ Water Color: _____ Odor: Y / N
 Approx. Flow Rate: _____ mlpm Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ ltrs DTW @ Sampling: _____

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc/NWTPH-Dx
	x 250ml poly	YES	NP	EUROFINS	DISSOLVED LEAD(6020 ICP/MS)
	x 500ml poly	YES	NP	EUROFINS	DISSOLVED LEAD(6020 ICP/MS)

COMMENTS: Depth Pump Set At: M/O



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #211556 Job Number: 17156773
 Site Address: 101 Mulford Road Event Date: 5/14/17 (inclusive)
 City: Toledo, WA Sampler: GM

Well ID: MW-111 Date Monitored: 5/14/17
 Well Diameter: 2(4) in.
 Total Depth: 17-77 ft.
 Depth to Water: 6-37 ft. Check if water column is less than 0.50 ft.
11.40 xVF = x3 case volume = Estimated Purge Volume: gal.

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

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]:

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump X
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters X
 Peristaltic Pump X
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: 0 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): 1055 Weather Conditions: RAIN
 Sample Time/Date: 1135 5/14/17 Water Color: CLEAR Odor: YIN SLIGHT
 Approx. Flow Rate: 200 mlpm Sediment Description: CL SILT
 Did well de-water? NO If yes, Time: _____ Volume: _____ ltrs DTW @ Sampling: 6.41

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS/mS µmhos/cm)	Temperature (C F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>1113</u>	<u>3.6</u>	<u>6.94</u>	<u>167.4</u>	<u>13.8</u>	<u>1.19</u>	<u>150</u>	<u>6.41</u>
<u>1116</u>	<u>4.2</u>	<u>6.92</u>	<u>166.9</u>	<u>13.7</u>	<u>1.27</u>	<u>151</u>	<u>6.41</u>
<u>1119</u>	<u>4.8</u>	<u>6.89</u>	<u>166.2</u>	<u>13.6</u>	<u>1.30</u>	<u>154</u>	<u>6.41</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-111</u>	<u>6 x vov vial</u>	<u>YES</u>	<u>HCL</u>	<u>EUROFINS</u>	<u>NWTPH-Gx/BTEX(8260)</u>
	<u>x 1 liter ambers</u>	<u>YES</u>	<u>HCL</u>	<u>EUROFINS</u>	<u>NWTPH-Dx</u>
	<u>2 x 1 liter ambers</u>	<u>YES</u>	<u>HCL</u>	<u>EUROFINS</u>	<u>NWTPH-Dx w/sgc/NWTPH-Dx</u>
	<u>1 x 250ml poly</u>	<u>YES</u>	<u>NP</u>	<u>EUROFINS</u>	<u>DISSOLVED LEAD(6020 ICP/MS)</u>
	<u>x 500ml poly</u>	<u>YES</u>	<u>NP</u>	<u>EUROFINS</u>	<u>DISSOLVED LEAD(6020 ICP/MS)</u>

COMMENTS: Depth Pump Set At: ~ 12.50ft
SHEEN ON H2O

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #211556 Job Number: 17156773
 Site Address: 101 Mulford Road Event Date: 5/14/17 (inclusive)
 City: Toledo, WA Sampler: GM

Well ID: MW-112 Date Monitored: 5/14/17
 Well Diameter: Ø14 in.
 Total Depth: 17.30 ft.
 Depth to Water: 7.05 ft. Check if water column is less than 0.50 ft.
10.25 xVF = x3 case volume = Estimated Purge Volume: gal.

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

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]:

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

Sampling Equipment:
 Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters X
 Peristaltic Pump X
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: Ø 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): 0902 Weather Conditions: RAIN
 Sample Time/Date: 0945 5/14/17 Water Color: CLEAR Odor: Ø SLIGHT
 Approx. Flow Rate: 200 mlpm Sediment Description: SL SILT
 Did well de-water? NO If yes, Time: _____ Volume: ltrs DTW @ Sampling: 7.08

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS) mS µmhos/cm	Temperature (° F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>0920</u>	<u>3.6</u>	<u>6.71</u>	<u>111.6</u>	<u>13.1</u>	<u>1.11</u>	<u>101</u>	<u>7.07</u>
<u>0923</u>	<u>4.2</u>	<u>6.69</u>	<u>111.3</u>	<u>13.0</u>	<u>1.11</u>	<u>105</u>	<u>7.08</u>
<u>0926</u>	<u>4.8</u>	<u>6.62</u>	<u>111.2</u>	<u>13.0</u>	<u>1.12</u>	<u>110</u>	<u>7.08</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-112</u>	<u>6 x vov vial</u>	<u>YES</u>	<u>HCL</u>	<u>EUROFINS</u>	<u>NWTPH-Gx/BTEX(8260)</u>
	<u>2 x 1 liter ambers</u>	<u>YES</u>	<u>HCL</u>	<u>EUROFINS</u>	<u>NWTPH-Dx</u>
	<u>x 1 liter ambers</u>	<u>YES</u>	<u>HCL</u>	<u>EUROFINS</u>	<u>NWTPH-Dx w/sgc/NWTPH-Dx</u>
	<u>1 x 250ml poly</u>	<u>YES</u>	<u>NP</u>	<u>EUROFINS</u>	<u>DISSOLVED LEAD(6020 ICP/MS)</u>
	<u>x 500ml poly</u>	<u>YES</u>	<u>NP</u>	<u>EUROFINS</u>	<u>DISSOLVED LEAD(6020 ICP/MS)</u>

COMMENTS: Depth Pump Set At: 17.50ft

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



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #211556
 Site Address: 101 Mulford Road
 City: Toledo, WA

Job Number: 17156773
 Event Date: 5/14/17 (inclusive)
 Sampler: GM

Well ID: MW-113
 Well Diameter: 2(4) in.
 Total Depth: 18.11 ft.
 Depth to Water: 7.88 ft.
10.23 xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Date Monitored: 5/14/17

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]: _____

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump X
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump X
 QED Bladder Pump _____
 Other: _____

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	<u>0</u> 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): 1000 Weather Conditions: RAIN
 Sample Time/Date: 1040/5/14/17 Water Color: CLEAR Odor: DN SLIGHT
 Approx. Flow Rate: 200 mlpm Sediment Description: CL SILT
 Did well de-water? NO If yes, Time: _____ Volume: _____ ltrs DTW @ Sampling: 7.91

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS cmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>1018</u>	<u>3.6</u>	<u>7.17</u>	<u>47.0</u>	<u>13.2</u>	<u>1.05</u>	<u>90</u>	<u>7.91</u>
<u>1021</u>	<u>4.2</u>	<u>7.14</u>	<u>47.1</u>	<u>13.1</u>	<u>1.05</u>	<u>90</u>	<u>7.91</u>
<u>1024</u>	<u>4.8</u>	<u>7.12</u>	<u>47.3</u>	<u>13.1</u>	<u>1.06</u>	<u>91</u>	<u>7.91</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-113</u>	<u>6 x voa vial</u>	<u>YES</u>	<u>HCL</u>	<u>EUROFINS</u>	<u>NWTPH-Gx/BTEX(8260)</u>
	<u>2 x 1 liter ambers</u>	<u>YES</u>	<u>HCL</u>	<u>EUROFINS</u>	<u>NWTPH-Dx</u>
	<u>x 1 liter ambers</u>	<u>YES</u>	<u>HCL</u>	<u>EUROFINS</u>	<u>NWTPH-Dx w/sgc/NWTPH-Dx</u>
	<u>1 x 250ml poly</u>	<u>YES</u>	<u>NP</u>	<u>EUROFINS</u>	<u>DISSOLVED LEAD(6020 ICP/MS)</u>
	<u>x 500ml poly</u>	<u>YES</u>	<u>NP</u>	<u>EUROFINS</u>	<u>DISSOLVED LEAD(6020 ICP/MS)</u>

COMMENTS: Depth Pump Set At: ≈ 13.00ft

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #211556 Job Number: 17156773
 Site Address: 101 Mulford Road Event Date: 5/14/17 (inclusive)
 City: Toledo, WA Sampler: GM

Well ID: MW-114 Date Monitored: 5/14/17
 Well Diameter: 2.4 in.
 Total Depth: 16.81 ft.
 Depth to Water: 5.93 ft. Check if water column is less than 0.50 ft.
10.88 xVF = x3 case volume = Estimated Purge Volume: gal.

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

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]:

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump X
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters X
 Peristaltic Pump X
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: 0 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): 1245 Weather Conditions: RAIN
 Sample Time/Date: 1325/5/14/17 Water Color: CLEAR Odor: DN SLIGHT
 Approx. Flow Rate: 200 mlpm Sediment Description: SL SILT
 Did well de-water? NO If yes, Time: _____ Volume: _____ ltrs DTW @ Sampling: 5.98

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS mS µmhos/cm)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>1303</u>	<u>3.6</u>	<u>7.77</u>	<u>79.1</u>	<u>12.9</u>	<u>1.09</u>	<u>126</u>	<u>5.97</u>
<u>1306</u>	<u>4.2</u>	<u>7.76</u>	<u>78.9</u>	<u>12.7</u>	<u>1.12</u>	<u>127</u>	<u>5.98</u>
<u>1309</u>	<u>4.8</u>	<u>7.75</u>	<u>78.6</u>	<u>12.6</u>	<u>1.19</u>	<u>130</u>	<u>5.98</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-114</u>	<u>6</u> x vov vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx
	<u>2</u> x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc/NWTPH-Dx
	<u>1</u> x 250ml poly	YES	NP	EUROFINS	DISSOLVED LEAD(6020 ICP/MS)
	x 500ml poly	YES	NP	EUROFINS	DISSOLVED LEAD(6020 ICP/MS)

COMMENTS: Depth Pump Set At: ≈ 11.5ft.

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



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #211556
 Site Address: 101 Mulford Road
 City: Toledo, WA

Job Number: 17156773
 Event Date: 5/14/17 (inclusive)
 Sampler: GM

Well ID: MW-115
 Well Diameter: 2(4) in.
 Total Depth: 17.47 ft.
 Depth to Water: 7.44 ft.
10-03 xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Date Monitored: 5/14/17

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]: _____

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: 0 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): _____
 Sample Time/Date: _____ / _____
 Approx. Flow Rate: _____ mlpm
 Did well de-water? _____ If yes, Time: _____

Weather Conditions: _____
 Water Color: _____ Odor: Y / N
 Sediment Description: _____
 Volume: _____ ltrs DTW @ Sampling: _____

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc/NWTPH-Dx
	x 250ml poly	YES	NP	EUROFINS	DISSOLVED LEAD(6020 ICP/MS)
	x 500ml poly	YES	NP	EUROFINS	DISSOLVED LEAD(6020 ICP/MS)

COMMENTS: Depth Pump Set At: NA M/D

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #211556 Job Number: 17156773
 Site Address: 101 Mulford Road Event Date: 5-14-17 (inclusive)
 City: Toledo, WA Sampler: AW

Well ID: MW-116 Date Monitored: 5-14-17
 Well Diameter: 2 1/4 in.
 Total Depth: 17.59 ft.
 Depth to Water: 8.07 ft. Check if water column is less than 0.50 ft.
9.52 xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

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

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: _____

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 / Absorbent Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr
 Product Transferred to: _____

Start Time (purge): _____ Weather Conditions: _____
 Sample Time/Date: _____ / _____ Water Color: _____ Odor: Y / N
 Approx. Flow Rate: _____ mlpm Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ ltrs DTW @ Sampling: _____

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)
	x 1 liter amber	YES	HCL	EUROFINS	NWTPH-Dx
	x 1 liter amber	YES	HCL	EUROFINS	NWTPH-Dx w/sgc/NWTPH-Dx
	x 250ml poly	YES	NP	EUROFINS	DISSOLVED LEAD(6020 ICP/MS)
	x 500ml poly	YES	NP	EUROFINS	DISSOLVED LEAD(6020 ICP/MS)

COMMENTS: Depth Pump Set At: M/D

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #211556
 Site Address: 101 Mulford Road
 City: Toledo, WA

Job Number: 17156773
 Event Date: 5/14/17 (inclusive)
 Sampler: GM

Well ID: MW-117
 Well Diameter: (2) 4 in.
 Total Depth: 17.64 ft.
 Depth to Water: 6.10 ft.
11.54 xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Date Monitored: 5/14/17

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]: _____

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: Ø ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbent Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr
 Product Transferred to: _____

Start Time (purge): _____
 Sample Time/Date: _____ / _____
 Approx. Flow Rate: _____ mlpm
 Did well de-water? _____ If yes, Time: _____

Weather Conditions: _____
 Water Color: _____ Odor: Y / N
 Sediment Description: _____
 Volume: _____ ltrs DTW @ Sampling: _____

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc/NWTPH-Dx
	x 250ml poly	YES	NP	EUROFINS	DISSOLVED LEAD(6020 ICP/MS)
	x 500ml poly	YES	NP	EUROFINS	DISSOLVED LEAD(6020 ICP/MS)

COMMENTS: Depth Pump Set At: N/A M/D



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #211556
 Site Address: 101 Mulford Road
 City: Toledo, WA

Job Number: 17156773
 Event Date: 5/14/17 (inclusive)
 Sampler: GM

Well ID: MW-118
 Well Diameter: 2 1/4 in.
 Total Depth: 17.21 ft.
 Depth to Water: 6.50 ft.

Date Monitored: 5/14/17

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]: 10.71 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: Ø 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): _____
 Sample Time/Date: _____ / _____
 Approx. Flow Rate: _____ mlpm
 Did well de-water? _____ If yes, Time: _____
 Weather Conditions: _____
 Water Color: _____ Odor: Y / N
 Sediment Description: _____
 Volume: _____ ltrs DTW @ Sampling: _____

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc/NWTPH-Dx
	x 250ml poly	YES	NP	EUROFINS	DISSOLVED LEAD(6020 ICP/MS)
	x 500ml poly	YES	NP	EUROFINS	DISSOLVED LEAD(6020 ICP/MS)

COMMENTS: Depth Pump Set At: NA M/O



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #211556 Job Number: 17156773
 Site Address: 101 Mulford Road Event Date: 5-14-17 (inclusive)
 City: Toledo, WA Sampler: AW

Well ID: MW-119 Date Monitored: 5-14-17
 Well Diameter: 2.14 in.
 Total Depth: 16.69 ft.
 Depth to Water: 7.85 ft. Check if water column is less than 0.50 ft.
8.84 xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

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

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: _____

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: _____
 Sample Time/Date: _____ / _____ Water Color: _____ Odor: Y / N
 Approx. Flow Rate: _____ mlpm Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ ltrs DTW @ Sampling: _____

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc/NWTPH-Dx
	x 250ml poly	YES	NP	EUROFINS	DISSOLVED LEAD(6020 ICP/MS)
	x 500ml poly	YES	NP	EUROFINS	DISSOLVED LEAD(6020 ICP/MS)

COMMENTS: Depth Pump Set At: M/O

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #211556
 Site Address: 101 Mulford Road
 City: Toledo, WA

Job Number: 17156773
 Event Date: 5/14/17 (inclusive)
 Sampler: GM

Well ID: MW-120
 Well Diameter: (2) 4 in.
 Total Depth: 16.84 ft.
 Depth to Water: 6.67 ft.
10.17 xVF — = — x3 case volume = Estimated Purge Volume: — gal.

Date Monitored: 5/14/17

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]: —

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: 0 ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbent Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr
 Product Transferred to: _____

Start Time (purge): _____
 Sample Time/Date: — / _____
 Approx. Flow Rate: _____ mlpm
 Did well de-water? _____ If yes, Time: _____

Weather Conditions: _____
 Water Color: _____ Odor: Y / N
 Sediment Description: _____
 Volume: _____ ltrs DTW @ Sampling: _____

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS / cmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc/NWTPH-Dx
	x 250ml poly	YES	NP	EUROFINS	DISSOLVED LEAD(6020 ICP/MS)
	x 500ml poly	YES	NP	EUROFINS	DISSOLVED LEAD(6020 ICP/MS)

COMMENTS: Depth Pump Set At: NA M/O

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #211556 Job Number: 17156773
 Site Address: 101 Mulford Road Event Date: 5-14-17 (inclusive)
 City: Toledo, WA Sampler: AW

Well ID: B-1 Date Monitored: 5-14-17
 Well Diameter: 21/4 in.
 Total Depth: 19.78 ft.
 Depth to Water: 6.51 ft. Check if water column is less than 0.50 ft.
13.27 xVF = x3 case volume = Estimated Purge Volume: gal.

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

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]:

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): 0900 Weather Conditions: Rainy
 Sample Time/Date: 0945 / 5-14-17 Water Color: Cloudy Odor: Y / 0
 Approx. Flow Rate: 200 mlpm Sediment Description: Cloudy
 Did well de-water? Y If yes, Time: _____ Volume: _____ ltrs DTW @ Sampling: 6.65

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS mS µmhos/cm)	Temperature (° / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>0918</u>	<u>3.6</u>	<u>7.61</u>	<u>127.6</u>	<u>11.6</u>	<u>1.11</u>	<u>108</u>	<u>6.55</u>
<u>0921</u>	<u>4.2</u>	<u>7.64</u>	<u>128.0</u>	<u>11.7</u>	<u>1.14</u>	<u>115</u>	<u>6.59</u>
<u>0924</u>	<u>4.8</u>	<u>7.66</u>	<u>128.5</u>	<u>11.7</u>	<u>1.18</u>	<u>122</u>	<u>6.65</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>B-1</u>	<u>6</u> x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)
	<u>2</u> x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc/NWTPH-Dx
	x 250ml poly	YES	NP	EUROFINS	DISSOLVED LEAD(6020 ICP/MS)
	<u>1</u> x 500ml poly	YES	NP	EUROFINS	DISSOLVED LEAD(6020 ICP/MS)

COMMENTS: Depth Pump Set At: ~~13.0ft~~ ~13.0ft.

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #211556 Job Number: 17156773
 Site Address: 101 Mulford Road Event Date: 5-14-17 (inclusive)
 City: Toledo, WA Sampler: AW

Well ID: B-2 Date Monitored: 5-14-17
 Well Diameter: 14 in.
 Total Depth: 19.02 ft.
 Depth to Water: 7.72 ft. Check if water column is less than 0.50 ft.
11.30 xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

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

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: _____

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): 1000 Weather Conditions: Cloudy / Rainy
 Sample Time/Date: 1045 / 5-14-17 Water Color: Cloudy Odor: Y / 100
 Approx. Flow Rate: 200 mlpm Sediment Description: Cloudy
 Did well de-water? N If yes, Time: _____ Volume: _____ ltrs DTW @ Sampling: 7.83

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (mS / μmhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>1018</u>	<u>3.6</u>	<u>8.76</u>	<u>123.3</u>	<u>10.8</u>	<u>1.29</u>	<u>77</u>	<u>7.76</u>
<u>1021</u>	<u>4.2</u>	<u>8.71</u>	<u>123.7</u>	<u>10.9</u>	<u>1.25</u>	<u>81</u>	<u>7.80</u>
<u>1024</u>	<u>4.8</u>	<u>8.69</u>	<u>124.0</u>	<u>10.9</u>	<u>1.22</u>	<u>86</u>	<u>7.83</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>B-2</u>	<u>6</u> x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)
	<u>2</u> x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx
	<u>1</u> x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc/NWTPH-Dx
	<u>1</u> x 250ml poly	YES	NP	EUROFINS	DISSOLVED LEAD(6020 ICP/MS)
	<u>1</u> x 500ml poly	YES	NP	EUROFINS	DISSOLVED LEAD(6020 ICP/MS)

COMMENTS: Depth Pump Set At: ~ 18.0ft.

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #211556
 Site Address: 101 Mulford Road
 City: Toledo, WA

Job Number: 17156773
 Event Date: 5-14-17 (inclusive)
 Sampler: AW

Well ID: B-3
 Well Diameter: 214 in.
 Total Depth: 13.51 ft.
 Depth to Water: 7.44 ft.
6.07 xVF = = x3 case volume = Estimated Purge Volume: gal.

Date Monitored: 5-14-17

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]:

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): 1100
 Sample Time/Date: 1145 / 5-14-17
 Approx. Flow Rate: 200 mlpm
 Did well de-water? ✓ If yes, Time: _____ Volume: _____ ltrs DTW @ Sampling: 7.59

Weather Conditions: Rainy
 Water Color: Cloudy Odor: Y / 0
 Sediment Description: Cloudy

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (mS / μmhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>1118</u>	<u>3.6</u>	<u>7.29</u>	<u>249</u>	<u>10.6</u>	<u>1.31</u>	<u>92</u>	<u>7.50</u>
<u>1121</u>	<u>4.2</u>	<u>7.32</u>	<u>255</u>	<u>10.7</u>	<u>1.28</u>	<u>99</u>	<u>7.53</u>
<u>1124</u>	<u>4.8</u>	<u>7.35</u>	<u>261</u>	<u>10.7</u>	<u>1.25</u>	<u>100</u>	<u>7.59</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>B-3</u>	<u>6</u> x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx
	<u>2</u> x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc/NWTPH-Dx
	<u>1</u> x 250ml poly	YES	NP	EUROFINS	DISSOLVED LEAD(6020 ICP/MS)
	x 500ml poly	YES	NP	EUROFINS	DISSOLVED LEAD(6020 ICP/MS)

COMMENTS: Depth Pump Set At: ~10.5ft

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #211556 Job Number: 17156773
 Site Address: 101 Mulford Road Event Date: 5/14/17 (inclusive)
 City: Toledo, WA Sampler: AW

Well ID: B-4 Date Monitored: 5-14-17
 Well Diameter: Ø14 in.
 Total Depth: 14.66 ft.
 Depth to Water: 6.65 ft. Check if water column is less than 0.50 ft.
8.01 xVF = x3 case volume = Estimated Purge Volume: gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]:

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

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): 1200 Weather Conditions: Rainy
 Sample Time/Date: 1245 / 5-14-17 Water Color: Cloudy Odor: Y10
 Approx. Flow Rate: 200 mlpm Sediment Description: Cloudy
 Did well de-water? N If yes, Time: _____ Volume: _____ ltrs DTW @ Sampling: 6.83

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS/mS µmhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>1218</u>	<u>3.6</u>	<u>7.36</u>	<u>136.4</u>	<u>13.2</u>	<u>1.00</u>	<u>88</u>	<u>6.72</u>
<u>1221</u>	<u>4.2</u>	<u>7.40</u>	<u>136.9</u>	<u>13.3</u>	<u>1.07</u>	<u>92</u>	<u>6.77</u>
<u>1224</u>	<u>4.8</u>	<u>7.43</u>	<u>137.2</u>	<u>13.3</u>	<u>1.10</u>	<u>99</u>	<u>6.83</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>B-4</u>	<u>6</u> x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)
	x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx
	<u>2</u> x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc/NWTPH-Dx
	<u>1</u> x 250ml poly	YES	NP	EUROFINS	DISSOLVED LEAD(6020 ICP/MS)
	x 500ml poly	YES	NP	EUROFINS	DISSOLVED LEAD(6020 ICP/MS)

COMMENTS: Depth Pump Set At: ~~10.5ft~~ ~10.5ft.

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: 2" Add/Replaced Lock:

Chevron Northwest Region Analysis Request/Chain of Custody



Lancaster Laboratories

Acct. # _____ Group # _____ Sample # _____
 For Eurofins Lancaster Laboratories use only
 Instructions on reverse side correspond with circled numbers.

1 Client Information			4 Matrix			5 Analyses Requested																		
Facility # SS#211556-OML G-R#17156773 WBS			Sediment <input type="checkbox"/> Potable Ground <input checked="" type="checkbox"/> Surface <input type="checkbox"/> NPDES <input type="checkbox"/> Air <input type="checkbox"/>	Total Number of Containers BTEX <input checked="" type="checkbox"/> 8021 <input type="checkbox"/> 8260 <input type="checkbox"/> Naphth <input type="checkbox"/> 8260 full scan <input type="checkbox"/>	Oxygenates <input type="checkbox"/> NWTPH-Gx <input type="checkbox"/> NWTPH-Dx with Silica Gel Cleanup <input checked="" type="checkbox"/> NWTPH-Dx without Silica Gel Cleanup <input checked="" type="checkbox"/> WA VPH <input type="checkbox"/> WA EPH <input type="checkbox"/>	Lead <input type="checkbox"/> Total <input type="checkbox"/> Diss. <input checked="" type="checkbox"/> Method 6020 ICP	Site Address 101 Mulford Road, TOLEDO, WA			Chevron MHO LEIDOSRS Lead Consultant Russell Shropshire			Consultant/Office Gettler-Ryan Inc., 6805 Sierra Court, Suite G, Dublin, CA 94568			Consultant Project Mgr. Deanna L. Harding, (deanna@grinc.com)			Consultant Phone # (925) 551-7444 x180			Sampler Alex W., Gilbert M.		
SCR #: _____							<input type="checkbox"/> Results in Dry Weight <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits																	

2 Sample Identification	Collected		3 Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX	8260 full scan	Oxygenates	NWTPH-Gx	NWTPH-Dx with Silica Gel Cleanup	NWTPH-Dx without Silica Gel Cleanup	WA VPH	WA EPH	Lead	Total	Diss.	Method	
	Date	Time																			
QA	170514		X			X		2	X			X									
MW -109		1230	X			X		9	X			X	X	X				X			
MW -111		1135										X									
MW -112		0945																			
MW -113		1040																			
MW -114		1325										X									
B-1		0945																			
B-2		1045																			
B-3		1145										X									
B-4		1245										X									

6 Remarks

Please report results for Dx with & without sgc. Dissolved lead samples to be filtered by the lab.

Please forward lab results directly to the LC and cc: G-R. The TPW sample results should be forwarded directly to Deanna Harding

7 Turnaround Time Requested (TAT) (please circle)

Standard 5 day 4 day **EDF/EDD**

72 hour 48 hour 24 hour

Relinquished by _____	Date 170516	Time 0825	Received by _____	Date 5/16/17	Time 8:25
Relinquished by _____	Date _____	Time _____	Received by _____	Date _____	Time _____

8 Data Package (circle if required)

Type I - Full **EDD (circle if required)**

Type VI (Raw Data) CVX-RTBU-FL_05 (default) Other: _____

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Received by _____

Date _____ Time _____

Temperature Upon Receipt _____ °C Custody Seals Intact? Yes No



GETTLER-RYAN INC.



TRANSMITTAL

May 24, 2017
G-R #17156773

TO: Mr. Russell Shropshire
Leidos, Inc.
18912 North Creek Parkway, Suite 101
Bothell, Washington 98011

FROM: Deanna L. Harding
Project Coordinator
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 Treated Purge Water Event of May 14, 2017

COMMENTS:

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

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #211556
 Site Address: 101 Mulford Road
 City: Toledo, WA

Job Number: 17156773
 Event Date: 5/14/17 (inclusive)
 Sampler: AW

Well ID: TPWHD-1
 Well Diameter: _____ in.
 Total Depth: _____ ft.
 Depth to Water: _____ ft.

Date Monitored: _____

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.

xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: _____

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: Discharge tube from Carbon drum

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: 1415 / 5-14-17 Water Color: Clear Odor: Y / 10
 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 µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
TPWHD-1	<u>6</u> x voa vial	YES	HCL	EUROFINS	NWTPH-Gx/BTEX(8260)
	<u>2</u> x 1 liter ambers	YES	HCL	EUROFINS	NWTPH-Dx w/sgc/NWTPH-Dx
	<u>1</u> x 250ml poly	YES	NP	EUROFINS	DISSOLVED LEAD(6020 ICP/MS)

COMMENTS: Returned on 5/19 to sample dissolved lead (Non preserved)
Sample time: 1145

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

Chevron Northwest Region Analysis Request/Chain of Custody



Lancaster Laboratories

Acct. # _____ Group # _____ Sample # _____
 For Eurofins Lancaster Laboratories use only
 Instructions on reverse side correspond with circled numbers.

1 Client Information			4 Matrix			5 Analyses Requested										6 Remarks	
Facility # SS#211556-OML G-R#17156773 WBS Site Address 101 Mulford Road, TOLEDO, WA Chevron PM MHO LEIDOSRS Lead Consultant Russell Shropshire Consultant/Office Gettler-Ryan Inc., 6805 Sierra Court, Suite G, Dublin, CA 94568 Consultant Project Mgr. Deanna L. Harding, (deanna@grinc.com) Consultant Phone # (925) 551-7444 x180 Sampler Alex W. Gilbert M			<input type="checkbox"/> Sediment <input checked="" type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air <input type="checkbox"/> Oil			Total Number of Containers BTEX <input checked="" type="checkbox"/> 8021 <input type="checkbox"/> 8260 <input type="checkbox"/> Naphth 8260 full scan Oxygenates NWTPH-Gx NWTPH-Dx with Silica Gel Cleanup <input checked="" type="checkbox"/> NWTPH-Dx without Silica Gel Cleanup <input checked="" type="checkbox"/> WA VPH <input type="checkbox"/> WA EPH <input type="checkbox"/> Lead Total <input type="checkbox"/> Diss. <input checked="" type="checkbox"/> Method 6020 <input checked="" type="checkbox"/> CPMS										SCR #: _____ <input type="checkbox"/> Results in Dry Weight <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits	
2 Sample Identification		3 Collected		Grab	Composite												
		Date	Time														
QA		170514		<input checked="" type="checkbox"/>													
TPWHD-1		↓	1415	<input checked="" type="checkbox"/>													
7 Turnaround Time Requested (TAT) (please circle) Standard 5 day 4 day EDF/EDD 72 hour 48 hour 24 hour						Relinquished by _____ Date 170516 Time 0825 Received by Phanta Date 5/16/17 Time 9:25											
8 Data Package (circle if required) Type I - Full Type VI (Raw Data)						Relinquished by Commercial Carrier: UPS _____ FedEx _____ Other <input checked="" type="checkbox"/>		Received by _____ Date 5/17/17 Time 9:20									
EDD (circle if required) CVX-RTBU-FL_05 (default) Other: _____						Temperature Upon Receipt 10.7 °C		Custody Seals Intact? (Yes) No									

6 Remarks

Please report results for Dx with & without sgc. Dissolved Lead samples to be filtered by the lab.

Jum
5/17/17

Please forward lab results directly to the LC and cc: G-R. The TPW sample results should be forwarded directly to Deanna Harding.

Chevron Northwest Region Analysis Request/Chain of Custody



Lancaster Laboratories

Acct. # _____ Group # _____ Sample # _____

For Eurofins Lancaster Laboratories use only
Instructions on reverse side correspond with circled numbers.

052217-02

1 Client Information			4 Matrix			5 Analyses Requested																														
Facility # SS#211556-OML G-R#17156773 WBS			Sediment	Ground	Surface	Total Number of Containers	BTEX + MTBE	8021	8260	Naphth	8260 full scan	Oxygenates	NWTPH-Gx	NWTPH-Dx with Silica Gel Cleanup	NWTPH-Dx without Silica Gel Cleanup	WA VPH	WA EPH	Lead	Total	Diss.	Method															
Site Address 101 Mulford Road, TOLEDO, WA																						<input type="checkbox"/> Potable	<input checked="" type="checkbox"/> Ground	<input type="checkbox"/> Surface	<input type="checkbox"/> 8021	<input type="checkbox"/> 8260	<input type="checkbox"/> Naphth	<input type="checkbox"/> NWTPH-Dx with Silica Gel Cleanup	<input type="checkbox"/> NWTPH-Dx without Silica Gel Cleanup	<input type="checkbox"/> WA VPH	<input type="checkbox"/> WA EPH	<input type="checkbox"/> Lead	<input type="checkbox"/> Total	<input type="checkbox"/> Diss.	<input checked="" type="checkbox"/> Method	
Chevron RM WHO LEIDOSRS Lead Consultant Russell Shropshire																						<input type="checkbox"/> NPDES	<input type="checkbox"/> Air	<input type="checkbox"/> Oil	<input type="checkbox"/> BTEX + MTBE	<input type="checkbox"/> 8021	<input type="checkbox"/> 8260	<input type="checkbox"/> Naphth	<input type="checkbox"/> NWTPH-Dx with Silica Gel Cleanup	<input type="checkbox"/> NWTPH-Dx without Silica Gel Cleanup	<input type="checkbox"/> WA VPH	<input type="checkbox"/> WA EPH	<input type="checkbox"/> Lead	<input type="checkbox"/> Total	<input type="checkbox"/> Diss.	<input checked="" type="checkbox"/> Method
Consultant/Office Gettler-Ryan Inc., 6805 Sierra Court, Suite G, Dublin, CA 94568																						<input type="checkbox"/> NPDES	<input type="checkbox"/> Air	<input type="checkbox"/> Oil	<input type="checkbox"/> BTEX + MTBE	<input type="checkbox"/> 8021	<input type="checkbox"/> 8260	<input type="checkbox"/> Naphth	<input type="checkbox"/> NWTPH-Dx with Silica Gel Cleanup	<input type="checkbox"/> NWTPH-Dx without Silica Gel Cleanup	<input type="checkbox"/> WA VPH	<input type="checkbox"/> WA EPH	<input type="checkbox"/> Lead	<input type="checkbox"/> Total	<input type="checkbox"/> Diss.	<input checked="" type="checkbox"/> Method
Consultant Project Mgr. Deanna L. Harding, (deanna@grinc.com)																						<input type="checkbox"/> NPDES	<input type="checkbox"/> Air	<input type="checkbox"/> Oil	<input type="checkbox"/> BTEX + MTBE	<input type="checkbox"/> 8021	<input type="checkbox"/> 8260	<input type="checkbox"/> Naphth	<input type="checkbox"/> NWTPH-Dx with Silica Gel Cleanup	<input type="checkbox"/> NWTPH-Dx without Silica Gel Cleanup	<input type="checkbox"/> WA VPH	<input type="checkbox"/> WA EPH	<input type="checkbox"/> Lead	<input type="checkbox"/> Total	<input type="checkbox"/> Diss.	<input checked="" type="checkbox"/> Method
Consultant Phone # (925) 551-7444 x180			<input type="checkbox"/> NPDES	<input type="checkbox"/> Air	<input type="checkbox"/> Oil	<input type="checkbox"/> BTEX + MTBE	<input type="checkbox"/> 8021	<input type="checkbox"/> 8260	<input type="checkbox"/> Naphth	<input type="checkbox"/> NWTPH-Dx with Silica Gel Cleanup	<input type="checkbox"/> NWTPH-Dx without Silica Gel Cleanup	<input type="checkbox"/> WA VPH	<input type="checkbox"/> WA EPH	<input type="checkbox"/> Lead	<input type="checkbox"/> Total	<input type="checkbox"/> Diss.	<input checked="" type="checkbox"/> Method																			
Sampler Alex Wong			<input type="checkbox"/> NPDES	<input type="checkbox"/> Air	<input type="checkbox"/> Oil	<input type="checkbox"/> BTEX + MTBE	<input type="checkbox"/> 8021	<input type="checkbox"/> 8260	<input type="checkbox"/> Naphth	<input type="checkbox"/> NWTPH-Dx with Silica Gel Cleanup	<input type="checkbox"/> NWTPH-Dx without Silica Gel Cleanup	<input type="checkbox"/> WA VPH	<input type="checkbox"/> WA EPH	<input type="checkbox"/> Lead	<input type="checkbox"/> Total	<input type="checkbox"/> Diss.	<input checked="" type="checkbox"/> Method																			

SCR #: _____

- Results in Dry Weight
- J value reporting needed
- Must meet lowest detection limits possible for 8260 compounds
- 8021 MTBE Confirmation
- Confirm MTBE + Naphthalene
- Confirm highest hit by 8260
- Confirm all hits by 8260
- Run _____ oxy's on highest hit
- Run _____ oxy's on all hits

2 Sample Identification	Collected		3 Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + MTBE	8021	8260	Naphth	8260 full scan	Oxygenates	NWTPH-Gx	NWTPH-Dx with Silica Gel Cleanup	NWTPH-Dx without Silica Gel Cleanup	WA VPH	WA EPH	Lead	Total	Diss.	Method	6 Remarks		
	Date	Time																								
TPWHD -1	170519	1145	X			X		1																	<p>Please report results for Dx with & without sgc. Dissolved Lead samples to be filtered by the lab.</p> <p>Please forward lab results directly to the LC and cc: G-R. The TPW sample results should be forwarded directly to Deanna Harding</p>	

7 Turnaround Time Requested (TAT) (please circle) Standard 5 day 4 day 72 hour 48 hour EDF/EDD 24 hour			Relinquished by _____		Date	Time	Received by _____		Date	Time
			Relinquished by _____		Date	Time	Received by _____		Date	Time
8 Data Package (circle if required) Type I - Full Type VI (Raw Data)			Relinquished by Commercial Carrier:		Temperature Upon Receipt _____ °C		Custody Seals Intact?		Yes	No
			UPS _____ FedEx _____ Other _____		Received by _____		Date	Time		

Attachment B:
Laboratory Analysis Report

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

Report Date: June 06, 2017

Project: 211556

Submittal Date: 05/17/2017
Group Number: 1802242
PO Number: 0015201727
Release Number: HORNE
State of Sample Origin: WA

Client Sample Description

	Lancaster Labs (LL) #
QA-T-170514 NA Water	8996995
MW-109-W-170514 Grab Groundwater	8996996
MW-109-W-170514 Filtered Grab Groundwater	8996997
MW-111-W-170514 Grab Groundwater	8996998
MW-111-W-170514 Filtered Grab Groundwater	8996999
MW-112-W-170514 Grab Groundwater	8997000
MW-112-W-170514 Filtered Grab Groundwater	8997001
MW-113-W-170514 Grab Groundwater	8997002
MW-113-W-170514 Filtered Grab Groundwater	8997003
MW-114-W-170514 Grab Groundwater	8997004
MW-114-W-170514 Filtered Grab Groundwater	8997005
B-1-W-170514 Grab Groundwater	8997006
B-1-W-170514 Filtered Grab Groundwater	8997007
B-2-W-170514 Grab Groundwater	8997008
B-2-W-170514 Filtered Grab Groundwater	8997009
B-3-W-170514 Grab Groundwater	8997010
B-3-W-170514 Filtered Grab Groundwater	8997011
B-4-W-170514 Grab Groundwater	8997012
B-4-W-170514 Filtered Grab Groundwater	8997013

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our current scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>. To request copies of prior scopes of accreditation, contact your project manager.

Electronic Copy To Leidos

Attn: Russ Shropshire

Electronic Copy To Leidos
Electronic Copy To Gettler-Ryan Inc.

Attn: Jamalyn Agyei
Attn: Gettler Ryan

Respectfully Submitted,



Amek Carter
Specialist

(717) 556-7252

Sample Description: QA-T-170514 NA Water
 Facility# 211556 Job# 17156773
 101 Mulford Road - Toledo, WA

LL Sample # WW 8996995
 LL Group # 1802242
 Account # 11260

Project Name: 211556

Collected: 05/14/2017

Chevron

6001 Bollinger Canyon Road

Submitted: 05/17/2017 09:20

L4310

Reported: 06/06/2017 13:27

San Ramon CA 94583

MRTQA

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/l					
10945	Benzene	71-43-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles ECY 97-602 NWTPH-Gx ug/l					
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1

Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX 8260B Water	SW-846 8260B	1	Z171401AA	05/20/2017 07:59	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z171401AA	05/20/2017 07:59	Anita M Dale	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	17138A20A	05/18/2017 15:32	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	17138A20A	05/18/2017 15:32	Jeremy C Giffin	1

Sample Description: MW-109-W-170514 Grab Groundwater
Facility# 211556 Job# 17156773
101 Mulford Road - Toledo, WA

LL Sample # WW 8996996
LL Group # 1802242
Account # 11260

Project Name: 211556

Collected: 05/14/2017 12:30 by AW

Chevron

6001 Bollinger Canyon Road

Submitted: 05/17/2017 09:20

L4310

Reported: 06/06/2017 13:27

San Ramon CA 94583

MR109

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/l					
10945	Benzene	71-43-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles ECY 97-602 NWTPH-Gx ug/l					
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum ECY 97-602 NWTPH-Dx ug/l					
Hydrocarbons modified					
08271	Diesel Range Organics C12-C24	n.a.	45	28	1
08271	Heavy Range Organics C24-C40	n.a.	260	66	1
GC Petroleum ECY 97-602 NWTPH-Dx ug/l					
Hydrocarbons w/Si modified					
12005	DRO C12-C24 w/Si Gel	n.a.	N.D.	28	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	66	1
The reverse surrogate, capric acid, is present at <1%.					

Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX 8260B Water	SW-846 8260B	1	Z171401AA	05/20/2017 08:23	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z171401AA	05/20/2017 08:23	Anita M Dale	1
08273	NWTPH-Gx water C7-C12	ECY 97-602	1	17138A20A	05/18/2017 16:00	Jeremy C Giffin	1
01146	GC VOA Water Prep	NWTPH-Gx					
08271	NWTPH-Dx water	SW-846 5030B	1	17138A20A	05/18/2017 16:00	Jeremy C Giffin	1
08271	NWTPH-Dx water	ECY 97-602	1	171380020A	05/23/2017 23:46	Amy Lehr	1
		NWTPH-Dx modified					
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602	1	171380021A	05/23/2017 04:02	Amy Lehr	1
		NWTPH-Dx modified					
12007	NW Dx water w/ 10g column	ECY 97-602	1	171380021A	05/18/2017 17:00	Ryan J Dowdy	1
		NWTPH-Dx 06/97					
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602	1	171380020A	05/18/2017 17:00	Ryan J Dowdy	1
		NWTPH-Dx 06/97					

Sample Description: MW-109-W-170514 Filtered Grab Groundwater
 Facility# 211556 Job# 17156773
 101 Mulford Road - Toledo, WA

LL Sample # WW 8996997
 LL Group # 1802242
 Account # 11260

Project Name: 211556

Collected: 05/14/2017 12:30 by AW

Chevron

6001 Bollinger Canyon Road

Submitted: 05/17/2017 09:20

L4310

Reported: 06/06/2017 13:27

San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved					
06035	Lead	SW-846 6020 7439-92-1	ug/l N.D.	ug/l 0.090	1

Sample Comments

State of Washington Lab Certification No. C457
 This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	171390605002A	05/22/2017 11:45	Choon Y Tian	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	171390605002	05/20/2017 06:15	Lisa J Cooke	1

Sample Description: MW-111-W-170514 Grab Groundwater
Facility# 211556 Job# 17156773
101 Mulford Road - Toledo, WA

LL Sample # WW 8996998
LL Group # 1802242
Account # 11260

Project Name: 211556

Collected: 05/14/2017 11:35 by AW

Chevron

6001 Bollinger Canyon Road

Submitted: 05/17/2017 09:20

L4310

Reported: 06/06/2017 13:27

San Ramon CA 94583

MR111

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/l					
10945	Benzene	71-43-2	0.8	0.5	1
10945	Ethylbenzene	100-41-4	46	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	3	0.5	1
GC Volatiles ECY 97-602 NWTPH-Gx ug/l					
08273	NWTPH-Gx water C7-C12	n.a.	9,200	250	5
GC Petroleum ECY 97-602 NWTPH-Dx ug/l					
Hydrocarbons modified					
08271	Diesel Range Organics C12-C24	n.a.	1,200	28	1
08271	Heavy Range Organics C24-C40	n.a.	1,400	66	1
GC Petroleum ECY 97-602 NWTPH-Dx ug/l					
Hydrocarbons w/Si modified					
12005	DRO C12-C24 w/Si Gel	n.a.	490	28	1
12005	HRO C24-C40 w/Si Gel	n.a.	630	66	1
The reverse surrogate, capric acid, is present at <1%.					

Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX 8260B Water	SW-846 8260B	1	Z171401AA	05/20/2017 09:35	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z171401AA	05/20/2017 09:35	Anita M Dale	1
08273	NWTPH-Gx water C7-C12	ECY 97-602	1	17141A20A	05/21/2017 18:15	Jeremy C Giffin	5
01146	GC VOA Water Prep	NWTPH-Gx					
08271	NWTPH-Dx water	SW-846 5030B	1	17141A20A	05/21/2017 18:15	Jeremy C Giffin	5
08271	NWTPH-Dx water	ECY 97-602	1	171380020A	05/24/2017 00:08	Amy Lehr	1
		NWTPH-Dx modified					
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602	1	171380021A	05/23/2017 05:29	Amy Lehr	1
		NWTPH-Dx modified					
12007	NW Dx water w/ 10g column	ECY 97-602	1	171380021A	05/18/2017 17:00	Ryan J Dowdy	1
		NWTPH-Dx 06/97					
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602	1	171380020A	05/18/2017 17:00	Ryan J Dowdy	1
		NWTPH-Dx 06/97					

Sample Description: MW-111-W-170514 Filtered Grab Groundwater
Facility# 211556 Job# 17156773
101 Mulford Road - Toledo, WA

LL Sample # WW 8996999
LL Group # 1802242
Account # 11260

Project Name: 211556

Collected: 05/14/2017 11:35 by AW

Chevron

6001 Bollinger Canyon Road

Submitted: 05/17/2017 09:20

L4310

Reported: 06/06/2017 13:27

San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved					
06035	Lead	SW-846 6020 7439-92-1	ug/l 10.3	ug/l 0.090	1

Sample Comments

State of Washington Lab Certification No. C457
This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	171390605002A	05/22/2017 11:47	Choon Y Tian	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	171390605002	05/20/2017 06:15	Lisa J Cooke	1

Sample Description: MW-112-W-170514 Grab Groundwater
Facility# 211556 Job# 17156773
101 Mulford Road - Toledo, WA

LL Sample # WW 8997000
LL Group # 1802242
Account # 11260

Project Name: 211556

Collected: 05/14/2017 09:45 by AW

Chevron

6001 Bollinger Canyon Road

Submitted: 05/17/2017 09:20

L4310

Reported: 06/06/2017 13:27

San Ramon CA 94583

MR112

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/l					
10945	Benzene	71-43-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles ECY 97-602 NWTPH-Gx ug/l					
08273	NWTPH-Gx water C7-C12	n.a.	150	50	1
GC Petroleum Hydrocarbons ECY 97-602 NWTPH-Dx modified ug/l					
08271	Diesel Range Organics C12-C24	n.a.	N.D.	28	1
08271	Heavy Range Organics C24-C40	n.a.	N.D.	66	1

Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX 8260B Water	SW-846 8260B	1	Z171401AA	05/20/2017 09:59	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z171401AA	05/20/2017 09:59	Anita M Dale	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	17141A20A	05/21/2017 14:10	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	17141A20A	05/21/2017 14:10	Jeremy C Giffin	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	171380020A	05/23/2017 20:48	Amy Lehr	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	171380020A	05/18/2017 17:00	Ryan J Dowdy	1

Sample Description: MW-112-W-170514 Filtered Grab Groundwater
 Facility# 211556 Job# 17156773
 101 Mulford Road - Toledo, WA

LL Sample # WW 8997001
 LL Group # 1802242
 Account # 11260

Project Name: 211556

Collected: 05/14/2017 09:45 by AW

Chevron

6001 Bollinger Canyon Road

Submitted: 05/17/2017 09:20

L4310

Reported: 06/06/2017 13:27

San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved					
06035	Lead	SW-846 6020 7439-92-1	ug/l 0.56	ug/l 0.090	1

Sample Comments

State of Washington Lab Certification No. C457
 This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	171390605002A	05/22/2017 11:49	Choon Y Tian	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	171390605002	05/20/2017 06:15	Lisa J Cooke	1

Sample Description: MW-113-W-170514 Grab Groundwater
Facility# 211556 Job# 17156773
101 Mulford Road - Toledo, WA

LL Sample # WW 8997002
LL Group # 1802242
Account # 11260

Project Name: 211556

Collected: 05/14/2017 10:40 by AW

Chevron

6001 Bollinger Canyon Road

Submitted: 05/17/2017 09:20

L4310

Reported: 06/06/2017 13:27

San Ramon CA 94583

MR113

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/l					
10945	Benzene	71-43-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles ECY 97-602 NWTPH-Gx ug/l					
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons ECY 97-602 NWTPH-Dx modified ug/l					
08271	Diesel Range Organics C12-C24	n.a.	N.D.	28	1
08271	Heavy Range Organics C24-C40	n.a.	N.D.	66	1

Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX 8260B Water	SW-846 8260B	1	Z171401AA	05/20/2017 10:23	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z171401AA	05/20/2017 10:23	Anita M Dale	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	17141A20A	05/21/2017 14:37	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	17141A20A	05/21/2017 14:37	Jeremy C Giffin	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	171380020A	05/23/2017 21:10	Amy Lehr	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	171380020A	05/18/2017 17:00	Ryan J Dowdy	1

Sample Description: MW-113-W-170514 Filtered Grab Groundwater
 Facility# 211556 Job# 17156773
 101 Mulford Road - Toledo, WA

LL Sample # WW 8997003
 LL Group # 1802242
 Account # 11260

Project Name: 211556

Collected: 05/14/2017 10:40 by AW

Chevron
 6001 Bollinger Canyon Road
 L4310
 San Ramon CA 94583

Submitted: 05/17/2017 09:20

Reported: 06/06/2017 13:27

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved					
06035	Lead	SW-846 6020 7439-92-1	ug/l N.D.	ug/l 0.090	1

Sample Comments

State of Washington Lab Certification No. C457
 This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	171390605002A	05/22/2017 11:50	Choon Y Tian	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	171390605002	05/20/2017 06:15	Lisa J Cooke	1

Sample Description: MW-114-W-170514 Grab Groundwater
Facility# 211556 Job# 17156773
101 Mulford Road - Toledo, WA

LL Sample # WW 8997004
LL Group # 1802242
Account # 11260

Project Name: 211556

Collected: 05/14/2017 13:25 by AW

Chevron

6001 Bollinger Canyon Road

Submitted: 05/17/2017 09:20

L4310

Reported: 06/06/2017 13:27

San Ramon CA 94583

MR114

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/l					
10945	Benzene	71-43-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles ECY 97-602 NWTPH-Gx ug/l					
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum ECY 97-602 NWTPH-Dx ug/l					
Hydrocarbons modified					
08271	Diesel Range Organics C12-C24	n.a.	42	29	1
08271	Heavy Range Organics C24-C40	n.a.	N.D.	67	1
GC Petroleum ECY 97-602 NWTPH-Dx ug/l					
Hydrocarbons w/Si modified					
12005	DRO C12-C24 w/Si Gel	n.a.	38	28	1
12005	HRO C24-C40 w/Si Gel	n.a.	280	66	1

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside the method required holding time and the QC and sample surrogate is compliant. All results are reported from the second trial. Similar results were obtained in both trials. The reverse surrogate, capric acid, is present at <1%.

Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX 8260B Water	SW-846 8260B	1	Z171401AA	05/20/2017 10:47	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z171401AA	05/20/2017 10:47	Anita M Dale	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	17141A20A	05/21/2017 15:05	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	17141A20A	05/21/2017 15:05	Jeremy C Giffin	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	171380020A	05/23/2017 23:01	Amy Lehr	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	171500015A	06/02/2017 02:23	Amy Lehr	1

Sample Description: MW-114-W-170514 Grab Groundwater
 Facility# 211556 Job# 17156773
 101 Mulford Road - Toledo, WA

LL Sample # WW 8997004
 LL Group # 1802242
 Account # 11260

Project Name: 211556

Collected: 05/14/2017 13:25 by AW

Chevron
 6001 Bollinger Canyon Road
 L4310
 San Ramon CA 94583

Submitted: 05/17/2017 09:20

Reported: 06/06/2017 13:27

MR114

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	2	171500015A	05/31/2017 00:30	Nadia Bernabe	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	171380020A	05/18/2017 17:00	Ryan J Dowdy	1

Sample Description: MW-114-W-170514 Filtered Grab Groundwater
 Facility# 211556 Job# 17156773
 101 Mulford Road - Toledo, WA

LL Sample # WW 8997005
 LL Group # 1802242
 Account # 11260

Project Name: 211556

Collected: 05/14/2017 13:25 by AW

Chevron
 6001 Bollinger Canyon Road
 L4310
 San Ramon CA 94583

Submitted: 05/17/2017 09:20

Reported: 06/06/2017 13:27

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved					
06035	Lead	SW-846 6020 7439-92-1	ug/l 8.3	ug/l 0.090	1

Sample Comments

State of Washington Lab Certification No. C457
 This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	171390605002A	05/22/2017 11:52	Choon Y Tian	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	171390605002	05/20/2017 06:15	Lisa J Cooke	1

Sample Description: B-1-W-170514 Grab Groundwater
Facility# 211556 Job# 17156773
101 Mulford Road - Toledo, WA

LL Sample # WW 8997006
LL Group # 1802242
Account # 11260

Project Name: 211556

Collected: 05/14/2017 09:45 by AW

Chevron

6001 Bollinger Canyon Road

Submitted: 05/17/2017 09:20

L4310

Reported: 06/06/2017 13:27

San Ramon CA 94583

MRTB1

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B					
10945	Benzene	71-43-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles ECY 97-602 NWTPH-Gx					
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons ECY 97-602 NWTPH-Dx modified					
08271	Diesel Range Organics C12-C24	n.a.	N.D.	28	1
08271	Heavy Range Organics C24-C40	n.a.	N.D.	66	1

Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX 8260B Water	SW-846 8260B	1	Z171401AA	05/20/2017 11:11	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z171401AA	05/20/2017 11:11	Anita M Dale	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	17141A20A	05/21/2017 15:32	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	17141A20A	05/21/2017 15:32	Jeremy C Giffin	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	171380020A	05/23/2017 21:32	Amy Lehr	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	171380020A	05/18/2017 17:00	Ryan J Dowdy	1

Sample Description: B-1-W-170514 Filtered Grab Groundwater
 Facility# 211556 Job# 17156773
 101 Mulford Road - Toledo, WA

LL Sample # WW 8997007
 LL Group # 1802242
 Account # 11260

Project Name: 211556

Collected: 05/14/2017 09:45 by AW

Chevron
 6001 Bollinger Canyon Road
 L4310
 San Ramon CA 94583

Submitted: 05/17/2017 09:20

Reported: 06/06/2017 13:27

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved					
06035	Lead	SW-846 6020 7439-92-1	ug/l N.D.	ug/l 0.090	1

Sample Comments

State of Washington Lab Certification No. C457
 This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	171390605002A	05/22/2017 11:57	Choon Y Tian	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	171390605002	05/20/2017 06:15	Lisa J Cooke	1

Sample Description: B-2-W-170514 Grab Groundwater
Facility# 211556 Job# 17156773
101 Mulford Road - Toledo, WA

LL Sample # WW 8997008
LL Group # 1802242
Account # 11260

Project Name: 211556

Collected: 05/14/2017 10:45 by AW

Chevron

6001 Bollinger Canyon Road

Submitted: 05/17/2017 09:20

L4310

Reported: 06/06/2017 13:27

San Ramon CA 94583

MRTB2

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/l					
10945	Benzene	71-43-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles ECY 97-602 NWTPH-Gx ug/l					
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum ECY 97-602 NWTPH-Dx ug/l					
Hydrocarbons modified					
08271	Diesel Range Organics C12-C24	n.a.	N.D.	28	1
08271	Heavy Range Organics C24-C40	n.a.	N.D.	66	1

Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX 8260B Water	SW-846 8260B	1	Z171401AA	05/20/2017 11:35	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z171401AA	05/20/2017 11:35	Anita M Dale	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	17141A20A	05/21/2017 15:59	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	17141A20A	05/21/2017 15:59	Jeremy C Giffin	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	171380020A	05/23/2017 21:55	Amy Lehr	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	171380020A	05/18/2017 17:00	Ryan J Dowdy	1

Sample Description: B-2-W-170514 Filtered Grab Groundwater
 Facility# 211556 Job# 17156773
 101 Mulford Road - Toledo, WA

LL Sample # WW 8997009
 LL Group # 1802242
 Account # 11260

Project Name: 211556

Collected: 05/14/2017 10:45 by AW

Chevron

6001 Bollinger Canyon Road

Submitted: 05/17/2017 09:20

L4310

Reported: 06/06/2017 13:27

San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved					
06035	Lead	SW-846 6020 7439-92-1	ug/l N.D.	ug/l 0.090	1

Sample Comments

State of Washington Lab Certification No. C457
 This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	171390605002A	05/22/2017 11:59	Choon Y Tian	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	171390605002	05/20/2017 06:15	Lisa J Cooke	1

Sample Description: B-3-W-170514 Grab Groundwater
Facility# 211556 Job# 17156773
101 Mulford Road - Toledo, WA

LL Sample # WW 8997010
LL Group # 1802242
Account # 11260

Project Name: 211556

Collected: 05/14/2017 11:45 by AW

Chevron

6001 Bollinger Canyon Road

Submitted: 05/17/2017 09:20

L4310

Reported: 06/06/2017 13:27

San Ramon CA 94583

MRTB3

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	ug/l	ug/l	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	1	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles		ECY 97-602 NWTPH-Gx	ug/l	ug/l	
08273	NWTPH-Gx water C7-C12	n.a.	230	50	1
GC Petroleum Hydrocarbons		ECY 97-602 NWTPH-Dx modified	ug/l	ug/l	
08271	Diesel Range Organics C12-C24	n.a.	92	28	1
08271	Heavy Range Organics C24-C40	n.a.	N.D.	66	1
GC Petroleum Hydrocarbons w/Si		ECY 97-602 NWTPH-Dx modified	ug/l	ug/l	
12005	DRO C12-C24 w/Si Gel	n.a.	N.D.	28	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	66	1
The reverse surrogate, capric acid, is present at <1%.					

Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX 8260B Water	SW-846 8260B	1	Z171401AA	05/20/2017 11:59	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z171401AA	05/20/2017 11:59	Anita M Dale	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	17141A20A	05/21/2017 16:26	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	17141A20A	05/21/2017 16:26	Jeremy C Giffin	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	171380020A	05/23/2017 23:24	Amy Lehr	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	171380021A	05/23/2017 04:24	Amy Lehr	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	171380021A	05/18/2017 17:00	Ryan J Dowdy	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	171380020A	05/18/2017 17:00	Ryan J Dowdy	1

Sample Description: B-3-W-170514 Filtered Grab Groundwater
 Facility# 211556 Job# 17156773
 101 Mulford Road - Toledo, WA

LL Sample # WW 8997011
 LL Group # 1802242
 Account # 11260

Project Name: 211556

Collected: 05/14/2017 11:45 by AW

Chevron
 6001 Bollinger Canyon Road
 L4310
 San Ramon CA 94583

Submitted: 05/17/2017 09:20

Reported: 06/06/2017 13:27

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved					
06035	Lead	SW-846 6020 7439-92-1	ug/l 2.3	ug/l 0.090	1

Sample Comments

State of Washington Lab Certification No. C457
 This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	171390605002A	05/22/2017 12:01	Choon Y Tian	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	171390605002	05/20/2017 06:15	Lisa J Cooke	1

Sample Description: B-4-W-170514 Grab Groundwater
Facility# 211556 Job# 17156773
101 Mulford Road - Toledo, WA

LL Sample # WW 8997012
LL Group # 1802242
Account # 11260

Project Name: 211556

Collected: 05/14/2017 12:45 by AW

Chevron

6001 Bollinger Canyon Road

Submitted: 05/17/2017 09:20

L4310

Reported: 06/06/2017 13:27

San Ramon CA 94583

MRTB4

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	ug/l	ug/l	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles		ECY 97-602 NWTPH-Gx	ug/l	ug/l	
08273	NWTPH-Gx water C7-C12	n.a.	2,000	250	5
GC Petroleum Hydrocarbons		ECY 97-602 NWTPH-Dx modified	ug/l	ug/l	
08271	Diesel Range Organics C12-C24	n.a.	1,200	29	1
08271	Heavy Range Organics C24-C40	n.a.	2,500	67	1
GC Petroleum Hydrocarbons w/Si		ECY 97-602 NWTPH-Dx modified	ug/l	ug/l	
12005	DRO C12-C24 w/Si Gel	n.a.	520	29	1
12005	HRO C24-C40 w/Si Gel	n.a.	1,100	67	1
The reverse surrogate, capric acid, is present at <1%.					

Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX 8260B Water	SW-846 8260B	1	Z171401AA	05/20/2017 12:23	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z171401AA	05/20/2017 12:23	Anita M Dale	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	17141A20A	05/21/2017 18:43	Jeremy C Giffin	5
01146	GC VOA Water Prep	SW-846 5030B	1	17141A20A	05/21/2017 18:43	Jeremy C Giffin	5
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	171380020A	05/24/2017 00:30	Amy Lehr	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	171380021A	05/23/2017 05:51	Amy Lehr	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	171380021A	05/18/2017 17:00	Ryan J Dowdy	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	171380020A	05/18/2017 17:00	Ryan J Dowdy	1

Sample Description: B-4-W-170514 Filtered Grab Groundwater
 Facility# 211556 Job# 17156773
 101 Mulford Road - Toledo, WA

LL Sample # WW 8997013
 LL Group # 1802242
 Account # 11260

Project Name: 211556

Collected: 05/14/2017 12:45 by AW

Chevron

6001 Bollinger Canyon Road

Submitted: 05/17/2017 09:20

L4310

Reported: 06/06/2017 13:27

San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved					
06035	Lead	SW-846 6020 7439-92-1	ug/l 12.8	ug/l 0.090	1

Sample Comments

State of Washington Lab Certification No. C457
 This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	171390605002A	05/22/2017 12:02	Choon Y Tian	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	171390605002	05/20/2017 06:15	Lisa J Cooke	1

Quality Control Summary

Client Name: Chevron
Reported: 06/06/2017 13:27

Group Number: 1802242

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name	Result	MDL
	ug/l	ug/l
Batch number: Z171401AA	Sample number(s): 8996995-8996996, 8996998, 8997000, 8997002, 8997004, 8997006, 8997008, 8997010, 8997012	
Benzene	N.D.	0.5
Ethylbenzene	N.D.	0.5
Toluene	N.D.	0.5
Xylene (Total)	N.D.	0.5
Batch number: 17138A20A	Sample number(s): 8996995-8996996	
NWTPH-Gx water C7-C12	N.D.	50
Batch number: 17141A20A	Sample number(s): 8996998, 8997000, 8997002, 8997004, 8997006, 8997008, 8997010, 8997012	
NWTPH-Gx water C7-C12	N.D.	50
Batch number: 171380020A	Sample number(s): 8996996, 8996998, 8997000, 8997002, 8997004, 8997006, 8997008, 8997010, 8997012	
Diesel Range Organics C12-C24	N.D.	30
Heavy Range Organics C24-C40	N.D.	70
Batch number: 171380021A	Sample number(s): 8996996, 8996998, 8997010, 8997012	
DRO C12-C24 w/Si Gel	N.D.	30
HRO C24-C40 w/Si Gel	N.D.	70
Batch number: 171500015A	Sample number(s): 8997004	
DRO C12-C24 w/Si Gel	N.D.	30
HRO C24-C40 w/Si Gel	N.D.	70
Batch number: 171390605002A	Sample number(s): 8996997, 8996999, 8997001, 8997003, 8997005, 8997007, 8997009, 8997011, 8997013	
Lead	N.D.	0.090

LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ug/l	ug/l	ug/l	ug/l					
Batch number: Z171401AA	Sample number(s): 8996995-8996996, 8996998, 8997000, 8997002, 8997004, 8997006, 8997008, 8997010, 8997012								
Benzene	20	18.47			92		78-120		
Ethylbenzene	20	18.34			92		78-120		
Toluene	20	19.33			97		80-120		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Chevron
Reported: 06/06/2017 13:27

Group Number: 1802242

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Xylene (Total)	60	57.3			95		80-120		
Batch number: 17138A20A NWTPH-Gx water C7-C12	1100	1033.29	Sample number(s): 8996995-8996996		94		79-120		
Batch number: 17141A20A NWTPH-Gx water C7-C12	1100	1036.29	Sample number(s): 8996998,8997000,8997002,8997004,8997006,8997008,8997010,8997012	1100	1013.22	94	79-120	2	30
Batch number: 171380020A Diesel Range Organics C12-C24	1600	1179.27	Sample number(s): 8996996,8996998,8997000,8997002,8997004,8997006,8997008,8997010,8997012	1600	1251.43	74	50-113	6	20
Batch number: 171380021A DRO C12-C24 w/Si Gel	1600	760.81	Sample number(s): 8996996,8996998,8997010,8997012	1600	877.79	48	32-117	14	20
Batch number: 171500015A DRO C12-C24 w/Si Gel	1600	809.36	Sample number(s): 8997004	1600	927.29	51	32-117	14	20
Batch number: 171390605002A Lead	15	15.01	Sample number(s): 8996997,8996999,8997001,8997003,8997005,8997007,8997009,8997011,8997013		100		80-120		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: Z171401AA	Sample number(s): 8996995-8996996,8996998,8997000,8997002,8997004,8997006,8997008,8997010,8997012 UNSPK: 8996996									
Benzene	N.D.	20	18.53	20	18.71	93	94	78-120	1	30
Ethylbenzene	N.D.	20	18.35	20	18.44	92	92	78-120	1	30
Toluene	N.D.	20	19.57	20	19.56	98	98	80-120	0	30
Xylene (Total)	N.D.	60	56.97	60	57.11	95	95	80-120	0	30
Batch number: 17138A20A NWTPH-Gx water C7-C12	86.92	1100	1215.86	1100	1236.82	103	105	79-120	2	30

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Chevron
Reported: 06/06/2017 13:27

Group Number: 1802242

MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 171390605002A	Sample number(s): 8996997, 8996999, 8997001, 8997003, 8997005, 8997007, 8997009, 8997011, 8997013 UNSPK: P990800									
Lead	0.701	15	16.96	15	17.32	108	111	75-125	2	20

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc ug/l	DUP Conc ug/l	DUP RPD	DUP RPD Max
Batch number: 171390605002A	Sample number(s): 8996997, 8996999, 8997001, 8997003, 8997005, 8997007, 8997009, 8997011, 8997013 BKG: P990800			
Lead	0.701	0.731	4 (1)	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX 8260B Water
Batch number: Z171401AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8996995	97	98	98	93
8996996	97	96	99	94
8996998	96	96	99	99
8997000	97	98	100	94
8997002	97	99	99	93
8997004	97	98	99	93
8997006	99	100	100	93
8997008	98	100	99	93
8997010	99	99	100	95
8997012	95	93	99	99
Blank	98	98	99	93
LCS	96	101	100	98
MS	96	100	100	97
MSD	96	99	100	98

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Chevron
Reported: 06/06/2017 13:27

Group Number: 1802242

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX 8260B Water
Batch number: Z171401AA

Limits: 80-116 77-113 80-113 78-113

Analysis Name: NWTPH-Gx water C7-C12
Batch number: 17138A20A

Trifluorotoluene-F

8996995	88
8996996	87
Blank	88
LCS	99
MS	98
MSD	99

Limits: 63-135

Analysis Name: NWTPH-Gx water C7-C12
Batch number: 17141A20A

Trifluorotoluene-F

8996998	92
8997000	88
8997002	88
8997004	87
8997006	88
8997008	87
8997010	87
8997012	89
Blank	87
LCS	98
LCSD	97

Limits: 63-135

Analysis Name: NWTPH-Dx water
Batch number: 171380020A

Orthoterphenyl

8996996	93
8996998	88
8997000	83
8997002	96
8997004	85
8997006	110
8997008	112
8997010	98
8997012	100
Blank	101
LCS	109

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Chevron
Reported: 06/06/2017 13:27

Group Number: 1802242

Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: NWTPH-Dx water
Batch number: 171380020A

	Orthoterphenyl
LCSD	112
Limits:	50-150

Analysis Name: NWTPH-Dx water w/ 10g Si Gel
Batch number: 171380021A

	Orthoterphenyl
8996996	74
8996998	60
8997010	79
8997012	71
Blank	76
LCS	82
LCSD	83
Limits:	50-150

Analysis Name: NWTPH-Dx water w/ 10g Si Gel
Batch number: 171500015A

	Orthoterphenyl
8997004	62
Blank	79
LCS	77
LCSD	90
Limits:	50-150

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Chevron Northwest Region Analysis Request/Chain of Custody



Lancaster Laboratories

Acct. # 11260

For Eurofins Lancaster Laboratories use only
 Group # 1302243 Sample # 8996995-7013
 Instructions on reverse side correspond with circled numbers.

1 Client Information		4 Matrix		5 Analyses Requested	
Facility # <u>SS#211556-OML G-R#17156773</u> WBS		<input type="checkbox"/> Sediment <input checked="" type="checkbox"/> Ground <input type="checkbox"/> Surface		<input type="checkbox"/> Naphth <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> 8021 <input type="checkbox"/> BTEX <input type="checkbox"/> 8260 full scan <input type="checkbox"/> Oxygenates <input type="checkbox"/> NWTPH-GX <input checked="" type="checkbox"/> NWTPH-Dx with Silica Gel Cleanup <input checked="" type="checkbox"/> NWTPH-Dx without Silica Gel Cleanup <input type="checkbox"/> WA VPH <input type="checkbox"/> WA EPH <input type="checkbox"/> Total <input checked="" type="checkbox"/> Diss. Method 6020 TPW MS	
Site Address <u>101 Mulford Road, TOLEDO, WA</u>		Chevron PM <u>MHO</u> LEIDOSRS Lead Consultant <u>Russell Shropshire</u>		Total Number of Containers	
Consultant/Office <u>Gettler-Ryan Inc., 6805 Sierra Court, Suite G, Dublin, CA 94568</u>		<input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air			
Consultant Project Mgr. <u>Deanna L. Harding, (deanna@grinc.com)</u>		<input type="checkbox"/> Composite			
Consultant Phone # <u>(925) 551-7444 x180</u>		Soil <input type="checkbox"/>			
Sampler <u>Alex W., Gilbert M.</u>		Water <input checked="" type="checkbox"/>			

SCR #: _____

- Results in Dry Weight
- J value reporting needed
- Must meet lowest detection limits possible for 8260 compounds
- 8021 MTBE Confirmation
- Confirm MTBE + Naphthalene
- Confirm highest hit by 8260
- Confirm all hits by 8260
- Run _____ oxy's on highest hit
- Run _____ oxy's on all hits

2 Sample Identification		3 Collected		Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX	8260 full scan	Oxygenates	NWTPH-GX	NWTPH-Dx with Silica Gel Cleanup	NWTPH-Dx without Silica Gel Cleanup	WA VPH	WA EPH	Total	Diss.	Method	
Date	Time																				
<u>QA</u>	<u>170514</u>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<u>2</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
<u>MW-109</u>			<u>1230</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<u>9</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
<u>MW-111</u>			<u>1135</u>											<input checked="" type="checkbox"/>							
<u>MW-112</u>			<u>0945</u>																		
<u>MW-113</u>			<u>1040</u>																		
<u>MW-114</u>			<u>1325</u>											<input checked="" type="checkbox"/>							
<u>B-1</u>			<u>0945</u>																		
<u>B-2</u>			<u>1045</u>																		
<u>B-3</u>			<u>1145</u>											<input checked="" type="checkbox"/>							
<u>B-4</u>			<u>1245</u>											<input checked="" type="checkbox"/>							

6 Remarks

Please report results for Dx with & without sgc.
~~_____~~
~~_____~~

Please forward lab results directly to the LC and cc: G-R. The TPW sample results should be forwarded directly to Deanna Harding

7 Turnaround Time Requested (TAT) (please circle)

Standard	5 day	4 day
72 hour	48 hour	EDF/EDD 24 hour

Relinquished by	Date	Time	Received by	Date	Time
<u>[Signature]</u>	<u>170516</u>	<u>0825</u>	<u>[Signature]</u>	<u>5/16/17</u>	<u>8:25</u>

8 Data Package (circle if required)

Type I - Full	EDD (circle if required)
Type VI (Raw Data)	CVX-RTBU-FL_05 (default)
	Other: _____

Relinquished by Commercial Carrier:	Received by	Date	Time
UPS _____ FedEx <input checked="" type="checkbox"/> Other _____	<u>[Signature]</u>	<u>5/17/17</u>	<u>9:0</u>
Temperature Upon Receipt <u>0.5/0.9c</u>		Custody Seals Intact? <u>Yes</u> No	



Client: CHEVRON NORTHWEST

Delivery and Receipt Information

Delivery Method: Fed Ex Arrival Timestamp: 05/17/2017 9:20
 Number of Packages: 2 Number of Projects: 1

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace \geq 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	4
Paperwork Enclosed:	Yes	Trip Blank Type:	HCL
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Wendy Wakeley (1669) at 11:39 on 05/17/2017

Samples Chilled Details

Thermometer Types: *DT = Digital (Temp. Bottle)* *IR = Infrared (Surface Temp)* *All Temperatures in °C.*

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT146	0.5	DT	Wet	Y	Bagged	N
2	DT146	0.7	DT	Wet	Y	Bagged	N
3	DT146	0.9	DT	Wet	Y	Bagged	N

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	mg	milligram(s)
C	degrees Celsius	mL	milliliter(s)
cfu	colony forming units	MPN	Most Probable Number
CP Units	cobalt-chloroplatinate units	N.D.	none detected
F	degrees Fahrenheit	ng	nanogram(s)
g	gram(s)	NTU	nephelometric turbidity units
IU	International Units	pg/L	picogram/liter
kg	kilogram(s)	RL	Reporting Limit
L	liter(s)	TNTC	Too Numerous To Count
lb.	pound(s)	µg	microgram(s)
m3	cubic meter(s)	µL	microliter(s)
meq	milliequivalents	umhos/cm	micromhos/cm
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Laboratory Data Qualifiers:

- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value \geq the Method Detection Limit (MDL or DL) and $<$ the Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference...
- W - The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

Report Date: May 28, 2017

Project: 211556

Submittal Date: 05/17/2017
Group Number: 1802503
PO Number: 0015201727
Release Number: HORNE
State of Sample Origin: WA

Client Sample Description

QA-T-170514 NA Water
TPWHD-1-W-170514 Grab Groundwater

Lancaster Labs

(LL) #

8998181

8998182

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our current scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>. To request copies of prior scopes of accreditation, contact your project manager.

Electronic Copy To Gettler Ryan
Electronic Copy To Leidos
Electronic Copy To Leidos
Electronic Copy To Gettler-Ryan Inc.

Attn: Deanna Harding
Attn: Russ Shropshire
Attn: Jamalyn Agyei
Attn: Gettler Ryan

Respectfully Submitted,



Amek Carter
Specialist

(717) 556-7252

Sample Description: QA-T-170514 NA Water
Facility# 211556 Job# 17156773
101 Mulford Road - Toledo, WA

LL Sample # WW 8998181
LL Group # 1802503
Account # 11260

Project Name: 211556

Collected: 05/14/2017

Chevron

6001 Bollinger Canyon Road

Submitted: 05/17/2017 09:20

L4310

Reported: 05/28/2017 21:07

San Ramon CA 94583

MRTT2

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	ug/l	ug/l	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles		ECY 97-602 NWTPH-Gx	ug/l	ug/l	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1

Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX 8260B Water	SW-846 8260B	1	Z171401AA	05/20/2017 12:47	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z171401AA	05/20/2017 12:47	Anita M Dale	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	17141A20A	05/21/2017 12:48	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	17141A20A	05/21/2017 12:48	Jeremy C Giffin	1

Sample Description: TPWHD-1-W-170514 Grab Groundwater
Facility# 211556 Job# 17156773
101 Mulford Road - Toledo, WA

LL Sample # WW 8998182
LL Group # 1802503
Account # 11260

Project Name: 211556

Collected: 05/14/2017 14:15 by AW

Chevron

6001 Bollinger Canyon Road

Submitted: 05/17/2017 09:20

L4310

Reported: 05/28/2017 21:07

San Ramon CA 94583

MRTT1

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	ug/l	ug/l	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles		ECY 97-602 NWTPH-Gx	ug/l	ug/l	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons		ECY 97-602 NWTPH-Dx modified	ug/l	ug/l	
08271	Diesel Range Organics C12-C24	n.a.	N.D.	28	1
08271	Heavy Range Organics C24-C40	n.a.	N.D.	66	1
GC Petroleum Hydrocarbons w/Si		ECY 97-602 NWTPH-Dx modified	ug/l	ug/l	
12005	DRO C12-C24 w/Si Gel	n.a.	N.D.	28	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	66	1
The reverse surrogate, capric acid, is present at <1%.					

Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX 8260B Water	SW-846 8260B	1	Z171402AA	05/20/2017 08:35	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z171402AA	05/20/2017 08:35	Anita M Dale	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	17141A20A	05/21/2017 13:43	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	17141A20A	05/21/2017 13:43	Jeremy C Giffin	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	171380020A	05/23/2017 20:07	Amy Lehr	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	171380021A	05/23/2017 04:45	Amy Lehr	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	171380021A	05/18/2017 17:00	Ryan J Dowdy	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	171380020A	05/18/2017 17:00	Ryan J Dowdy	1

Quality Control Summary

Client Name: Chevron
Reported: 05/28/2017 21:07

Group Number: 1802503

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name	Result	MDL
	ug/l	ug/l
Batch number: Z171401AA	Sample number(s): 8998181	
Benzene	N.D.	0.5
Ethylbenzene	N.D.	0.5
Toluene	N.D.	0.5
Xylene (Total)	N.D.	0.5
Batch number: Z171402AA	Sample number(s): 8998182	
Benzene	N.D.	0.5
Ethylbenzene	N.D.	0.5
Toluene	N.D.	0.5
Xylene (Total)	N.D.	0.5
Batch number: 17141A20A	Sample number(s): 8998181-8998182	
NWTPH-Gx water C7-C12	N.D.	50
Batch number: 171380020A	Sample number(s): 8998182	
Diesel Range Organics C12-C24	N.D.	30
Heavy Range Organics C24-C40	N.D.	70
Batch number: 171380021A	Sample number(s): 8998182	
DRO C12-C24 w/Si Gel	N.D.	30
HRO C24-C40 w/Si Gel	N.D.	70

LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ug/l	ug/l	ug/l	ug/l					
Batch number: Z171401AA	Sample number(s): 8998181								
Benzene	20	18.47			92		78-120		
Ethylbenzene	20	18.34			92		78-120		
Toluene	20	19.33			97		80-120		
Xylene (Total)	60	57.3			95		80-120		
Batch number: Z171402AA	Sample number(s): 8998182								
Benzene	20	18.72			94		78-120		
Ethylbenzene	20	18.77			94		78-120		
Toluene	20	19.4			97		80-120		
Xylene (Total)	60	58.19			97		80-120		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Chevron
Reported: 05/28/2017 21:07

Group Number: 1802503

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 17141A20A NWTPH-Gx water C7-C12	Sample number(s): 8998181-8998182								
	1100	1036.29	1100	1013.22	94	92	79-120	2	30
	ug/l	ug/l	ug/l	ug/l					
Batch number: 171380020A Diesel Range Organics C12-C24	Sample number(s): 8998182								
	1600	1179.27	1600	1251.43	74	78	50-113	6	20
	ug/l	ug/l	ug/l	ug/l					
Batch number: 171380021A DRO C12-C24 w/Si Gel	Sample number(s): 8998182								
	1600	760.81	1600	877.79	48	55	32-117	14	20

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: Z171401AA	Sample number(s): 8998181 UNSPK: P996996									
Benzene	N.D.	20	18.53	20	18.71	93	94	78-120	1	30
Ethylbenzene	N.D.	20	18.35	20	18.44	92	92	78-120	1	30
Toluene	N.D.	20	19.57	20	19.56	98	98	80-120	0	30
Xylene (Total)	N.D.	60	56.97	60	57.11	95	95	80-120	0	30
Batch number: Z171402AA	Sample number(s): 8998182 UNSPK: 8998182									
Benzene	N.D.	20	19.08	20	19.68	95	98	78-120	3	30
Ethylbenzene	N.D.	20	19.14	20	19.47	96	97	78-120	2	30
Toluene	N.D.	20	20.53	20	20.57	103	103	80-120	0	30
Xylene (Total)	N.D.	60	59.83	60	60.96	100	102	80-120	2	30

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX 8260B Water
Batch number: Z171401AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8998181	97	98	99	92
Blank	98	98	99	93
LCS	96	101	100	98
MS	96	100	100	97

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Chevron
Reported: 05/28/2017 21:07

Group Number: 1802503

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX 8260B Water
Batch number: Z171401AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
MSD	96	99	100	98
Limits:	80-116	77-113	80-113	78-113

Analysis Name: BTEX 8260B Water
Batch number: Z171402AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8998182	97	99	98	93
Blank	98	100	100	95
LCS	96	98	100	98
MS	97	100	99	97
MSD	96	100	99	97
Limits:	80-116	77-113	80-113	78-113

Analysis Name: NWTPH-Gx water C7-C12
Batch number: 17141A20A

	Trifluorotoluene-F
8998181	86
8998182	86
Blank	87
LCS	98
LCSD	97
Limits:	63-135

Analysis Name: NWTPH-Dx water
Batch number: 171380020A

	Orthoterphenyl
8998182	94
Blank	101
LCS	109
LCSD	112
Limits:	50-150

Analysis Name: NWTPH-Dx water w/ 10g Si Gel
Batch number: 171380021A

	Orthoterphenyl
8998182	74
Blank	76
LCS	82
LCSD	83

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Chevron
Reported: 05/28/2017 21:07

Group Number: 1802503

Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: NWTPH-Dx water w/ 10g Si Gel
Batch number: 171380021A

Limits: 50-150

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Chevron Northwest Region Analysis Request/Chain of Custody



Lancaster Laboratories

Acct. # 11260

For Eurofins Lancaster Laboratories use only
 Lab # 1802503 Sample # 8998181-82
 Instructions on reverse side correspond with circled numbers.

SCR #: _____

1 Client Information				4 Matrix				5 Analyses Requested										6 Remarks							
Facility # SS#211556-OML G-R#17156773 WBS Site Address 101 Mulford Road, TOLEDO, WA Chevron PM MHO LEIDOSRS Lead Consultant Russell Shropshire Consultant/Office Gettler-Ryan Inc., 6805 Sierra Court, Suite G, Dublin, CA 94568 Consultant Project Mgr. Deanna L. Harding, (deanna@grinc.com) Consultant Phone # (925) 551-7444 x180 Sampler Alex W. Gilbert M				<input type="checkbox"/> Sediment <input checked="" type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air <input type="checkbox"/> Oil <input type="checkbox"/> Total Number of Containers				<input type="checkbox"/> BTEX <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> 8021 <input type="checkbox"/> 8260 full scan <input type="checkbox"/> Oxygenates <input type="checkbox"/> NWTPH-Gx <input checked="" type="checkbox"/> NWTPH-Dx with Silica Gel Cleanup <input checked="" type="checkbox"/> NWTPH-Dx without Silica Gel Cleanup <input type="checkbox"/> WA VPH <input type="checkbox"/> WA EPH <input type="checkbox"/> Lead <input type="checkbox"/> Total <input type="checkbox"/> Diss. <input checked="" type="checkbox"/> Method 6020 TCP/MS										<input type="checkbox"/> Results in Dry Weight <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits							
2 Sample Identification		Collected		3																					
Date	Time	Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX	8260	8021	8260 full scan	Oxygenates	NWTPH-Gx	NWTPH-Dx with Silica Gel Cleanup	NWTPH-Dx without Silica Gel Cleanup	WA VPH	WA EPH	Lead	Total	Diss.	Method	Please report results for Dx with & without sgc. Dissolved Lead samples to be filtered by the lab. Please forward lab results directly to the LC and cc: G-R. The TPW sample results should be forwarded directly to Deanna Harding			
QA	170514	---	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		2	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										
TPW HD-1	↓	1415	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		9	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										
7 Turnaround Time Requested (TAT) (please circle) Standard 5 day 4 day 72 hour 48 hour EDF/EDD 24 hour				Relinquished by _____ Date 170516 Time 0825 Received by Vranata Relinquished by _____ Date _____ Time _____ Received by _____				Date 5/16/17 Time 9:25																	
8 Data Package (circle if required) Type I - Full Type VI (Raw Data)				EDD (circle if required) CVX-RTBU-FL_05 (default) Other: _____				Relinquished by Commercial Carrier: UPS _____ FedEx <input checked="" type="checkbox"/> Other _____ Temperature Upon Receipt 10.5 / 0.7 °C				Received by _____ Custody Seals Intact? Yes No		Date 5/17/17 Time 9:20											

Chevron Northwest Region Analysis Request/Chain of Custody



Lancaster Laboratories

Acct. # 11260

For Eurofins Lancaster Laboratories use only
 Group # 1802503 Sample # 8998/81-82
Instructions on reverse side correspond with circled numbers.

8998/81-82

1 Client Information			4 Matrix			5 Analyses Requested										6 Remarks
Facility # <u>SS#211556-OML G-R#17156773</u> WBS			<input type="checkbox"/> Sediment <input checked="" type="checkbox"/> Potable <input checked="" type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> NPDES <input type="checkbox"/> Air			Total Number of Containers: <u>9</u> BTEX: <input checked="" type="checkbox"/> 8021 <input type="checkbox"/> 8260 <input type="checkbox"/> Naphth 8260 full scan Oxygenates NWTPH-Gx NWTPH-Dx with Silica Gel Cleanup <input checked="" type="checkbox"/> NWTPH-Dx without Silica Gel Cleanup <input checked="" type="checkbox"/> WA VPH <input type="checkbox"/> WA EPH <input type="checkbox"/> Lead <input type="checkbox"/> Total <input type="checkbox"/> Diss. <input checked="" type="checkbox"/> Method <u>6020</u> <u>TPHMS</u>										SCR #: _____
Site Address: <u>101 Mulford Road, TOLEDO, WA</u>			Chevron RW: <u>MHO</u> LEIDOSRS Lead Consultant: <u>Russell Shropshire</u>													<input type="checkbox"/> Results in Dry Weight <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits
Chevron Office: <u>Gettler-Ryan Inc., 6805 Sierra Court, Suite G, Dublin, CA 94568</u>			Consultant Project Mgr.: <u>Deanna L. Harding, (deanna@grinc.com)</u>													
Consultant Phone #: <u>(925) 551-7444 x180</u>			Sampler: <u>Alex W. Gilbert m</u>													Please report results for Dx with & without sgc. Dissolved Lead samples to be filtered by the lab. <div style="text-align: center; font-size: 2em; font-family: cursive;"> JLM 5/17/17 </div> Please forward lab results directly to the LC and cc: G-R. The TPW sample results should be forwarded directly to Deanna Harding.
2 Sample Identification		Collected		3 Grab	Composite											
		Date	Time													
<u>QA</u>		<u>170514</u>	<u>1415</u>	<input checked="" type="checkbox"/>												
<u>TPW HD-1</u>		<u>↓</u>	<u>1415</u>	<input checked="" type="checkbox"/>												
7 Turnaround Time Requested (TAT) (please circle)			Relinquished by			Date		Time		Received by		Date		Time		
Standard 5 day 72 hour 48 hour EDF/EDD 24 hour			<u>[Signature]</u>			<u>170516</u>		<u>0825</u>		<u>[Signature]</u>		<u>5/16/17</u>		<u>8:25</u>		
8 Data Package (circle if required)			Relinquished by Commercial Carrier:			Date		Time		Received by		Date		Time		
Type I - Full Type VI (Raw Data)			EDD (circle if required) CVX-RTBU-FL_05 (default) Other: _____			UPS _____ FedEx _____ Other <input checked="" type="checkbox"/>				<u>[Signature]</u>		<u>5/17/17</u>		<u>9:20</u>		
			Temperature Upon Receipt: <u>60.5 / 0.7 °C</u>							Custody Seals Intact?		<u>(Yes)</u>		No		

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 The white copy should accompany samples to Eurofins Lancaster Laboratories. The yellow copy should be retained by the client.

Issued by Dept. 40 Management
7051.03



Client: CHEVRON NORTHWEST

Delivery and Receipt Information

Delivery Method: Fed Ex Arrival Timestamp: 05/17/2017 9:20
 Number of Packages: 2 Number of Projects: 1

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace ≥ 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	4
Paperwork Enclosed:	Yes	Trip Blank Type:	HCL
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Wendy Wakeley (1669) at 11:39 on 05/17/2017

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT146	0.5	DT	Wet	Y	Bagged	N
2	DT146	0.7	DT	Wet	Y	Bagged	N
3	DT146	0.9	DT	Wet	Y	Bagged	N

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	mg	milligram(s)
C	degrees Celsius	mL	milliliter(s)
cfu	colony forming units	MPN	Most Probable Number
CP Units	cobalt-chloroplatinate units	N.D.	none detected
F	degrees Fahrenheit	ng	nanogram(s)
g	gram(s)	NTU	nephelometric turbidity units
IU	International Units	pg/L	picogram/liter
kg	kilogram(s)	RL	Reporting Limit
L	liter(s)	TNTC	Too Numerous To Count
lb.	pound(s)	µg	microgram(s)
m3	cubic meter(s)	µL	microliter(s)
meq	milliequivalents	umhos/cm	micromhos/cm
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Laboratory Data Qualifiers:

- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value \geq the Method Detection Limit (MDL or DL) and $<$ the Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference...
- W - The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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