

#### Chevron Environmental Management Company

### **Groundwater Monitoring Report** 2013

Former Chevron Bulk Plant No. 100-1327 Facilities North / King County (Metro) Seattle, Washington

June 11, 2013

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#### Annual Groundwater Monitoring Report 2013

#### **ARCADIS**

Former Chevron Bulk Terminal No. 100-1327

#### 1 Introduction

On behalf of Chevron Environmental Management Company (Chevron), ARCADIS US, Inc. (ARCADIS), has prepared this report to document the 2013 groundwater sampling events for former Chevron Bulk Plant No. 100-1327 (the site). The site is located at 1602 North Northlake Way along the north shore of Lake Union in a mixed-use residential and commercial neighborhood. This property is divided into two operable areas: a north yard located on the north side of North Northlake Way and a south yard located adjacent to the north shore of Lake Union and south of North Northlake Way (Figure 1). This report summarizes the groundwater gauging and sampling events conducted by ARCADIS in 2013.

#### 1.1 North Yard

The portion of the site that is located between North 34<sup>th</sup> Street (to the north) and North Northlake Place (to the south), and between Woodlawn Avenue North (to the west) and Densmore Avenue North (to the East) is North Yard. Touchstone Corporation (Touchstone) intends to buy and redevelop this property.

#### 1.1.1 Touchstone PPCD

Touchstone intends to buy, remediate, and redevelop the north yard portion of the site. Touchstone has filed for Prospective Purchaser Consent Decree (PPCD) with State of Washington, Department of Ecology (Ecology) to remediate the north yard to Model Toxics Control Act (MTCA) Method C Industrial soil cleanup levels. According to the terms of PPCD, Touchstone is only required to address soil contamination in the north yard and is not responsible for addressing any off-property soil contamination or the groundwater contamination on and off the property boundary.

#### 1.2 South Yard

The south yard is bounded by Lake Union on the southeast, private property on the northwest, North Northlake Place on the northeast, and a property occupied by the Seattle Harbor Patrol on the southeast.

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Former Chevron Bulk Terminal No. 100-1327

#### 1.3 Public Right of Way between North and South Yard

The onsite area between the North Yard and South Yard is referred to as the public right of way (ROW) in this report. This area is shown on **Figure 1**.

Groundwater monitoring is typically conducted annually and groundwater gauging is conducted quarterly at the site. However, in 2013, one gauging event and one sampling event occurred. On April 22, 23, and 24, 2013 ARCADIS conducted groundwater sampling and gauging activities.

#### 2 Groundwater Monitoring

#### 2.1 Groundwater Gauging Methods

Groundwater gauging was conducted in conjunction with sampling activities on April 22, 2013. Site monitoring wells were gauged with an oil/water interface probe to determine depth to water and to ascertain if light non aqueous phase liquid (LNAPL) was present.

The wells were gauged in order from lowest historical concentrations of petroleum constituents to highest in order to prevent cross contamination. Non-disposable groundwater gauging equipment was decontaminated prior to and after each use with a detergent solution and rinsed in potable water. Field notes taken during the groundwater monitoring events and gauging activities are included as **Appendix A**.

#### 2.2 Groundwater Elevation and Flow Direction

On April 22, 2013, groundwater monitoring wells MW-4, MW-7, MW-8A, MW-9, MW-19, MW-20, MW-21, MW-25, MW-26, MW-27, MLU-1, SMPN-1, SMPN-2 and SMPN-3 were gauged to determine groundwater elevations and the presence of LNAPL. LNAPL was present in monitoring well MW-9 at a thickness of 0.67 foot, MW-27 at a thickness of 0.01 foot and SMPN-1 had sheen. During the April 22, 2013, gauging event, depth to groundwater ranged between 7.34 feet below top of casing (btoc) in monitoring well MW-27 to 15.18 feet btoc in monitoring well MW-4. Groundwater elevations ranged from 18.61 feet above mean sea level (msl) to 26.68 feet above msl in monitoring wells MW-25 and MW-27, respectively. Groundwater elevation could not be calculated for MW-3 because it was not surveyed when top of casing elevations were resurveyed in May 2011. Compliance wells for the north yard include MW-19, MW-20, and MW-21. Because MW-3 is not a compliance well, and is located within the

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Former Chevron Bulk Terminal No. 100-1327

Touchstone building, Chevron requests monitoring of this well be discontinued during future LNAPL gauging events.

Water table elevation data at the site during the April 22, 2013, event indicate groundwater flow direction is toward the southwest. The historical groundwater flow direction has seasonally fluctuated from the southeast toward the southwest. Current and historical groundwater elevation data are included in **Table 1**. Historic and current LNAPL thicknesses and removal data are presented in **Table 2**. The horizontal hydraulic gradient present on site is approximately 0.03 ft/ft. The gradient in the offsite upgradient area is much steeper, as this area is 30 feet higher in elevation than the onsite area. The Groundwater Elevation Contour Map for April 22, 2013 monitoring well gauging data is included on **Figure 2**.

#### 2.3 Groundwater Sampling Methods

The annual 2013 groundwater monitoring event was conducted on April 22, 23 and 24, 2013. During this event groundwater samples were collected from monitoring wells MW-4, MW-7, MW-8A, MW-9, MW-19, MW-20, MW-21, MW-25, MW-26, MW-27, MLU-1, SMPN-1, SMPN-2 and SMPN-3. Sampling was conducted in accordance with low flow purge methodology, using a peristaltic pump and disposable tubing. Flow rates used during sampling ranged from approximately 200 to 500 milliliters per minute (mL/min) thereby minimizing water level drawdown in the well. During low flow purging, field indicator parameters including pH, specific conductivity and temperature were monitored using a water quality meter with a flow-through measurement cell. Groundwater was considered stabilized when pH readings remained within 0.1 units. and specific conductivity and temperature readings remained within 3%. The flowthrough measurement cell was then disconnected from the disposable tubing and sample containers were filled directly from the tubing. After the samples were collected in appropriate laboratory bottles they were labeled, stored in a cooler packed with ice, and submitted under proper chain-of-custody procedures to Lancaster Laboratories (Lancaster) in Lancaster, Pennsylvania. Groundwater samples were submitted to the analytical laboratory for one or more of the following analyses:

- Benzene, toluene, ethylbenzene and naphthalene by EPA method 8021B
- carcinogenic polyaromatic hydrocarbons (cPAHs) by EPA 8270C SIM
- Dissolved lead and arsenic by EPA method 6020

The cPAHs were collected two ways, with field filtering and unfiltered. During the April event, the cPAHs were sampled to include both filtered and unfiltered samples. A

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Former Chevron Bulk Terminal No. 100-1327

duplicate groundwater sample DUP-1 was collected from AGI-2, during the event and submitted blind to the laboratory for the above analyses. Analytical results for petroleum hydrocarbons and metals are presented in **Table 1**, **Table 3** and on **Figure 2**.

#### 2.4 Groundwater Analytical Results

Groundwater cleanup levels at the site were based on MTCA Method B surface water cleanup levels (CULs) (Foster Wheeler, 1998). The MTCA Method B surface water CULs for specific constituents of concern (COCs) at the site include:

Constituents of Concern	Groundwater CUL	Units
Benzene	43	µg/L
Toluene	48,500	µg/L
Ethylbenzene	6,910	μg/L
Naphthalene	9,880	µg/L
Benzo(a)anthracene	0.0296	μg/L
Benzo(a)pyrene	0.0296	μg/L
Benzo(b)fluoranthene	0.0296	µg/L
Benzo(k)fluoranthene	0.0296	µg/L
Chrysene	0.0296	μg/L
Dibenz(a,h)anthracene	0.0296	µg/L
Indeno(1,2,3-cd)pyrene	0.0296	µg/L
Arsenic	0.0982	μg/L
Lead	5	µg/L

During the annual sampling event conducted on April 22, 23 and 24, 2013, groundwater was sampled for benzene, toluene, ethylbenzene, unfiltered and filtered cPAHs as well as filtered naphthalene, arsenic and lead, from monitoring wells MW-4, MW-7, MW-8A, MW-9, MW-19, MW-20, MW-21, MW-25, MW-26, MW-27, MLU-1, SMPN-1, SMPN-2 and SMPN-3. Dissolved arsenic was detected at levels greater than the MTCA Method B surface water CUL in every well sampled. Arsenic concentrations ranged from 11.6  $\mu$ g/L in MW-21 to not detected above the laboratory detection limit (DL) of 0.40  $\mu$ g/L in samples collected from wells MW-4, MW-8A, MW-26 and MLU-1, which is greater than the cleanup level. No other COCs were detected at concentrations greater than the MTCA Method B surface water CULs. Analytical results are presented on **Figure 3** and in **Table 1** and **Table 3**.

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#### 3 Conclusions

The groundwater elevation data collected during the 2013 monitoring event indicates groundwater flow direction and horizontal hydraulic gradient to be generally consistent with historical data. Concentrations of the constituents of concern in the groundwater samples collected during the 2013 event are generally consistent with historical data. LNAPL was detected in monitoring wells MW-9, MW-27, and SMPN-1 during gauging activities, which is generally consistent with historic data.

Annual 2014 groundwater sampling is scheduled to be conducted by ARCADIS in the first half of 2014 with gauging and product removal events to be conducted quarterly. These events are being scheduled at the request of Department of Ecology (Ecology) to allow comparison of groundwater conditions with the Gasworks Park site. If you have any questions or would like to discuss this further, please contact Scott Zorn at 206.726.4709.

#### 4 References

Foster Wheeler Environmental Corporation. 1998. Draft Cleanup Action Plan Former Chevron Bulk Plant 100-1327 Facilities North/King County Metro Transit Lake Union Site. (November 24, 1998).

#### **ARCADIS**

**Tables** 

Table 1
Groundwater Monitoring and Analytical Results
Former Chevron Bulk Plant #1001327
1602 North Northlake Place
Seattle, Washington

WELL ID DATE	ToC*	DTW (#)	GWE (#)	LNAPLT	LNAPL Removed	B (119/1)	T (T/an)	E (uv/L)	X (Lon)	Napthalene (ma/l)
Groundwater Cleanup Level						43	48.500	6.910	. 1	9.880
MW-3										
08/11/99	104.07	1	1	0.00	1	168	4.29	20.60	ı	3.34
10/21/99	104.07	-	1	0.00	1	149	<3.25	<5.9	1	0.546
10/22/99	104.07	1	1	0.00	1	149	<2.30	<4.00	1	1
05/24/01	104.07	10.25	94.03	0.26	1	ı	ı	ı	1	1
06/27/01	104.07	1	1	0.00	1	I	ī	E	1	1
03/18/02	104.07	9.28	95.34	69.0	1	E	Ĭ	E	1	;
12/21/02	104.07	ı	1	0.00	f	I	Ī	K E	1	ı
03/26/03	104.07	7.02	97.05	0.00	į	ľ	ı	E	t	1
06/26/03	104.07	11.49	93.38	1.00	į.	ľ	ı	T.	l	Î
07/21/03	104.07	ı	E	0.00	E	ľ	I	Ī	Į	1
08/28/03	104.07	1	I	0.00	Ē	E	Ī	1	I	1
10/16/03	104.07	13.89	92.05	2.34	f	Ľ	ı	£	1	1
11/21/03	104.07	I	1	00.00	1	ı	1	1	1	1
12/17/03	104.07	11.02	93.65	0.75	ı	I	ł	ι	1	!
01/29/04	104.07	10.59	94.10	0.77	ı	I	1	i	1	1
02/18/04	104.07	10.32	94.19	0.55	1	I	f	1	1	1
03/30/04	104.07	9.93	94.66	0.65	ľ	I	1	1	ı	1
09/22/04	104.07	11.35	93.31	0.74	ī	1	1	ı	1	1
03/15/05	104.07	12.98	92.82	2.16	1	I	1	1	1	1
09/28/05	104.07	11.25	ł	⊲3.0	ı	1	1	Î	3	1
03/29/06	104.07	12.40	94.58**	3.64	)N	OT SAMPLED D	UE TO THE PRI	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL	ر	1
03/21/07	104.07	10.67	94.63**	1.54	- NO	OT SAMPLED D	UE TO THE PRI	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL		1
03/25/08	104.07	10.38	94.21**	0.65		OT SAMPLED D	UE TO THE PRI	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL	ں	1
180/08-09/08	104.07	11.02	93,43**	0.47	$1.50^{5}$	ı	1	1	3	ij
12/11/081	104.07	12.10	93.02**	1.31	2.50 <sup>5</sup>	1	1	}	1	1
03/30-31/091	104.07	9.70	94.37	0.00	:	1	1	1	3	•
06/15/091	104.07	10.97	94.04**	1.18	$2.50^{5}$	1	;	1	1	1
09/10-11/09	104.07	12.21	92.88**	1.27	1.66 <sup>5</sup>	ı	1	;	1	1
02/23/101	104.07	11.25	94.82**	2.50	1.755	В	1	:	1	1
03/15/101	104.07	11.25	94.94**	2.65	$2.50^{12}$	1	1	1	1	ı
09/15/10	104.07		INACCI	INACCESSIBLE		ı	1	1	1	ı
12/04/10	104.07		INACCI	INACCESSIBLE		1	1	1	1	;
03/23/12	104.07	12.00	92.15**	0.10	0.50	1	;	ı	1	1
06/01/12	104.07		INACCI	INACCESSIBLE		1	1	1	1	1
04/22/13	104.07		INACCI	INACCESSIBLE		1	1	Ī	1	1
MW-4										
08/10/99	1	1	I	0.00	1	<1.00	<1.00	<1.00	1	<1.00
10/20/99	ı	ľ	1	0.00		1	ı		ł	
07/26/01	1	15 46	;	000		5	7 00	7 00		8
				2	!	^^**	0011	00.1	1	71.00

Table 1
Groundwater Monitoring and Analytical Results
Former Chevron Bulk Plant #1001327
1602 North Northlake Place
Scattle, Washington

WELL ID DATE	TOC*	DTW (ft.)	GWE (#)	LNAPLT (#)	LNAPL Remover	B (110/L)	T (Tou)	E (no.T.)	X (Lon)	Napthalene
Groundwater Cleanup Level						43	48.500	6.910	1 1	9.880
						-		arria		7,000
MW-4 (cont)										
10/11/02	ı	;	1	000	:	00 200	00 200	00 200	,	i
12/31/02	1	16.88	ı	0.00		<0.500	<0.500	<0.500	ı	1
02/27/03	1	16.22	1	0.00	E	<0.500	<0.500	<0.500	1	;
03/26/03	1	15.38	1	0.00	1	<0.500	<0.500	<0.500	1	:
04/28/03	1	15.12	ı	0.00	1	<0.500	0.536	<0.500	1	:
05/30/03	1	15.02	:	0.00	1	<0.500	<0.500	<0.500	1	1
06/25/03	:	15.39	1	0.00	t	<0.500	<0.500	<0.500	1	<0.100
09/16/03	;	16.76	-	0.00	1	<0.500	<0.500	<0.500	1	<1.00
12/15/03	I	16.8	l	0.00	ı	<0.500	<0.500	<0.500	1	<1.00
03/25/04	Ī	15.85	ŀ	0.00	I	<0.500	<0.500	<0.500	1	<0.119
09/22/04	I	15.94	ı	0.00	ı	ŀ	ī	1	i	I
03/14/05	1	16.26	1	0.00	ı	1	I	1	1	ī
03/29/06	Ī	15.71	1	0.00	I	Ī	ī	1	1	1
03/21/07	1	15.77	1	0.00	1	0.590	<0.500	<0.500	1	<5.00
03/25/08	1	15.78	ł	0.00	ı	<0.5	1.2	<0.5	ı	0.022
80/60-80/60	1	15.91	ł	0.00	1	<0.5	<0.5	<0.5	1	<1.0
12/11/08	1	MONITORED/S.	MONITORED/SAMPLED SEMI-ANNUALLY	NNUALLY		1	1	1	ı	1
03/30-31/09	1	15.54		0.00	1	<0.5	<0.5	<0.5	I	<1.0
09/10-11/09	1	16.39	ı	0.00	ı	<0.5	<0.5	<0.5	1	<1.0
03/15/10	1	12.67	ı	0.00	1	9.0	<0.5	<0.5	ı	<1.0
09/15/10	;	16.25	1	0.00	1	<0.5	<0.5	<0.5	1	<1.0
03/14/11	1	15.55	1	0.00	1	1	ì	1	1	Ĩ
09/25/11	33.92	16.55	17.37	0.00	1	0.5	<0.2	<0.2	1	<1.0
10/10/11	33.92	16.20	17.72	0.00	1	ij	;	1	ı	1
06/21/12	33.92	14.49	19.43	0.00	1	3	1	3	I	1
09/20/12	33.92	16.60	17.32	0.00	;	1	ł	1	1	1
09/21/12	33.92	16.59	17.33	0.00	1	<0.5	<0.5	<0.5	1	<0.030
12/26/12	33.92	16.62	17.30	0.00	1	<0.5	<0.5	<0.5	1	1
04/22/13	33.92	15.18	18.74	0.00	ı	<0.5	<0.5	<0.5	i	<0.030
MW-7										
08/10/99	98.39	ı	1	0.00		683	491	2550	1	673
10/20/99	98.39	1	}	0.00	1	172	80.4	177	1	
07/26/01	98.39	12.61	85.78	0.00	12.61	162	58.5	314	ı	149
04/03/02	98.39	13.03	85.36	0.00	13.03	58.0	22.2	346	ı	96.2
07/02/02	98.39	12.13	86.26	0.00	12.13	46.9	88.6	158	Ē	I
09/03/02	98.39	13.76	84.63	0.00	13.76	42.0	21.9	153	I	I
09/03/02 (D)	98.39	13.76	84.63	0.00	13.76	88.8	37.2	498	f	!
10/11/02	98.39	14.87	83.52	0.00	14.87	41.4	15.8	145	I	1
03/26/03	98.39	13.12	85.27	0.00	13.12	10.1	15.6	108	I	ī
04/28/03	98.39	12.33	90.98	0.00	12.33	31.5	35.5	664	1	1
05/30/03	98.39	11.76	86.63	0.00	11.76	7.34	11.6	901	1	1
06/25/03	98.39	13.14	85.25	0.00	13.14	16.4	27.4	446	ī	34.6
09/16/03	98.39	13.93	84.46	0.00	13.93	< 50.0	78.6	1190	1	583

Table 1
Groundwater Monitoring and Analytical Results
Former Chevron Bulk Plant #1001327
1602 North Northlake Place
Seattle, Washington

WELLID	TOC*	DTW	GWE	LNAPLT	LNAPL Removed	B	T	e (	×	Napthalene
Groundwater Cleanup Level	(70)	(2)	(de)	(Je)	(ganons)	(#8/L) 43	48.500	6.910	(n/8n)	9.880
									,	
MW-7 (cont)										
12/15/03	98.39	13.96	84.43	0.00	13.96	25.9	44.9	1470	1	550
03/21/07	98.39	UNABLE TO LOCATE	CATE	1	ı	1	1	1	1	1
03/25/08	98.39	UNABLE TO LOCATE	CATE	1	1	1	1	1	1	1
80/60-80/60	98.39	UNABLE TO LOCATE	CATE	1	1	1	1	1	1	1
12/11/08	98.39	MONITORED S	MONITORED SEMI-ANNUALLY		I	1	I	1	1	;
03/30-31/09	98.39	UNABLE TO LOCATE	CATE	:	1	;	;	1	1	
09/10-11/09	98.39	UNABLE TO LOCATE	CATE	1	1	1	1	1	1	1
03/15/1011	98.39	13.07	85.32	0.00	0.00	27	4.9	230	1	490
09/15/10	68.36	13,4	84.99	0.00	0.00	38	9	270	1	570
03/14/11	98.39	12.85	85.54	0.00	1	1	1	1	1	1
06/21/12	31.13	12.19	18.94	0.00	ı	ı	ŀ	ŀ	1	1
09/20/12	31.13	13.74	17.39	0.00	1	46	6.9	120	1	530
12/26/12	31.13	15.67	15.46	0.00	ı	34	0.9	240	1	1
04/22/13	31.13	12.40	18.73	0.00	ı	31	4.5	82	l	340
MW-8A										
12/15/03	09.76	13,32	84.28	0.00	1	14.8	2.46	37.7	I	8.61
03/25/04	09.76	12.24	85.36	0.00	ı	12.0	1.33	2.54	1	0.267
09/23/04	09'160	12.30	85.30	0.00	i)	14.8	0.757	2.00	E	0.319
09/23/04 (D)	09.76	12.30	85.30	00.00	ı	13.3	0.671	1.75	ŀ	0.319
03/14/05	09.76	12.68	84.92	0.00	ī	8.3	1.72	4.54	f	3.61
03/29/06	09.76	12.14	85.46	0.00	1	<0.500	<0.500	<0.500	.1	<1.0
03/21/07	09.76	12.21	85.39	0.00	1	<0.500	<0.500	<0.500	1	<5.00
03/25/08	09.76	12.13	85.47	0.00	ı	<0.5	<0.5	<:0.5	:	<1.0
80/60-80/60	97.87	12.32	85.55	0.00	ī	<0.5	<0.5	<0.5	1	√ 1.0
12/11/08	97.87	MONITORED/S.	MONITORED/SAMPLED SEMI-ANNUALLY	NNUALLY		1	1	1	1	1
03/30-31/09	97.87	12.04	85.83	0.00	1	<0.5	<0.5	<0.5	1	×1.0
09/10-11/09	97.87	12.80	85.07	0.00	1	<0.5	<0.5	<0.5	ı	<1.0
03/15/10	97.87	12.23	85.64	0.00	ı	<0.5	<0.5	<0.5	1	Ξ.
09/15/10	78.76	12.66	85.21	0.00	1	<0.5	<0.5	3.00	ı	<1.0
11/16/11	30.31	13.19	17 17	0000		-02	٠٠/	-02	1 3	1 7
06/21/12	30.31	11.45	18.86	0.00	ı	1	i }	1	1	? 1
06/21/12 (D)	30.31	11.45	18.86	0.00	1	1	1	1	1	1
09/20/12	30.31	12.97	17.34	0.00	1	1	1	1	3	1
09/21/12	30.31	12.97	17.34	0.00	1	<0.5	<0.5	<0.5	1	<0.030
12/26/12	30.31	13.07	17.24	0.00	1	<0.5	<0.5	<0.5	1	1
04/23/13	30.31	11.70	18.61	0.00	1	<0.5	<0.5	<0.5	1	<0.030
MW.9										
06/11/80	103.67	,	-	000		200	000	167		130
10/21/99	103.67	J	}	000		0 800	<0.500	20.5	1 1	1106
05/24/01	103 67	14.07	89 64	0.05	•	)				
0/2/01	103.67	13.78	89 92	0.03			1 1	1	1 1	r i
06/27/01	103.67	13.79	88 68	000	ı	~\$ 00	V 5 00	9 65		901
03/18/02	103.67	13.51	90.71	69'0	1	}	2 1	2 1	ı	6 1
10/16/02	103.67	1	1	0.54	ł	ı	ı	1	ı	I
11/11/02	103.67	1	1	06.0	I	ı	t	Ł	ī	1
12/31/02	103.67	1	I	16.0	ı	ĺ	E	B	ı	ī

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Table 1
Groundwater Monitoring and Analytical Results
Former Chevron Bulk Plant #1001327
1602 North Northlake Place
Seattle, Washington

WELL ID DATE	TOC*	DTW (#)	GWE	LNAPLT (#.)	LNAPL Removed	B (ue/L)	T (410/L)	E (ue/L)	X (T/an)	Napthalene (us/L)
Groundwater Cleanup Level						43	48,500	016'9	1	9,880
MW-9 (cont)										
02/27/03	103.67	1	1	0.02	1	1	ı	;	ı	,
03/26/03	103.67	1		0.00	1	3	1		1	1
04/28/03	103.67	13.25	90.48	0.07	;	;	;	1	1	1
05/30/03	103.67	13.52	90.22	0.00	.1	1	1	ŀ	1	1
06/26/03	103.67	13.90	89.80	0.04	1	1	1	ı	ı	1
07/21/03	103.67	1	1	0.21	1	1	1	1	1	1
08/28/03	103.67	1	1	0.23	1	1	1	1	1	1
10/16/03	103.67	15.98	88.15	0.57	1	ţ	ı	1	1	ı
11/21/03	103.67	1	E	0.01	į.	ı	I	1	1	1
12/17/03	103.67	1	1	0.00		ı	ŀ	E	ľ	
01/29/04	103.67	14.16	89.53	0.03	ſ	ı	ı	E	1	ı
02/18/04	103.67	11.11	92.70	0.17		,	ı	ł	I.	F
03/25/04	103.67	13.66	10.06	0.00	ı	6.71	2.56	39.5	ı	891
03/30/04	103.67	13.80	96.68	0.11	ı	ı	ı	ı	ı	ï
09/22/04	103.67	9.52	94.17	0.03	Î	ľ	1	I	ľ	1
03/15/05	103.67	14.81	89.09	0.29	ï	I	1	1	ŀ	1
09/28/05	103.67	15.31	88.56	0.25	1	1	1	£	Ī	ı
03/29/06	103.67	13.26	90.62**	0.26	Ž	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL	IE TO THE PRESI	ENCE OF LNAPL		ĵ
03/21/07	103.67	13.73	90.20**	0.32	Ž :	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL	IE TO THE PRESI	ENCE OF LNAPL		Ī
03/25/08	103.67	13.93	89.74**	0.00		NOT SAMPLED DUE TO THE PRESENCE OF LNAPL	IE TO THE PRESI	ENCE OF LNAPL		ł
180/08-08/60	103.67	14.23	89.45**	0.01	ı	20	<102	16	1	37
12/11/081	103.67	15.16	88.55**	0.05	0.02 <sup>5</sup> S <sub>4</sub>	SAMPLED SEMI-ANNUALLY	NNUALLY		ſ	1
03/30-31/091	103.67	14.06	19.68	0.00		<20 <sup>5</sup>	<50 <sup>8</sup>	35	62	50
06/15/091	103.67	13.32	90.35	0.00		SAMPLED SEMI-ANNUALLY	NNUALLY		1	ı
09/10-11/09 <sup>1</sup>	103.67	14.80	88.87	0.00	ı	<108	<10\$	16	1	36
02/23/101	103.67	13.10	90.81**	0.30		1	1	1	1	1
03/15/101	103.67	13.33	90.52**	0.23		NOT SAMPLED DUE TO THE PRESENCE OF LNAPL	E TO THE PRESI	ENCE OF LNAPL		1
9/15/101	103.67	15.05	**90.68	0.55		NOT SAMPLED DUE TO THE PRESENCE OF LNAPL	E TO THE PRESI	ENCE OF LNAPL		1
12/4/10	103.67	14.50	89.27**	0.13	0.20 <sup>5</sup> No	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL	E TO THE PRESI	ENCE OF LNAPL		į
3/14/20111	103.67	12.71	96.06	0.00	1	3	1	ă	1	1
9/24/20111	36.46	14.62	21.84	0.00	1	3	1	1	3	1
12/08/20111	36.46	12.87	23.59	0.00		1	;	1	1	:
03/23/12	36.46	10.55	26.07**	0.20		NOT SAMPLED DUE TO THE PRESENCE OF LNAPL	E TO THE PRESI	ENCE OF LNAPL		1
06/01/12	36.46	11.75	24.87**	0.20	_	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL	E TO THE PRESI	INCE OF LNAPL		ı
09/20/12	36.46	14.47	22.41**	0.52		NOT SAMPLED DUE TO THE PRESENCE OF LNAPL	E TO THE PRESI	ENCE OF LNAPL		1
12/26/12	36.46	11.60	25.66**	1.00	)Z	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL	E TO THE PRESI	SNCE OF LNAPL		1
04/22/13	36.46	11.07	25.93**	0.67		OT SAMPLED DI	JE TO THE PRE	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL		
MW-10										
08/11/99	100.30	1	ı	0.00	1	226	292	625	i	121
10/21/99	100.30	ı	I	0.00	1	431	455	838	1	. "
04/12/00	100.30	7.34	92.96	0.00	1	662	542	749	ı	105
06/27/00	100.30	8.95	91.35	0.00	t	325	168	136	ı	64.5
09/28/00	100.30	10.08	90.22	0.00	ı	437	339	291	I	32.7
01/15/01	100.30	10.16	90.14	0.00	1	352	266	137	ı	63.6
										,

Table 1
Groundwater Monitoring and Analytical Results
Former Chevron Bulk Plant #1001327
1602 North Northlake Place
Seattle, Washington

WELLID		*200T	WTG	GWE	LNAPLT	LNAPL Removec	8	Т	Э	×	Napthalene
DATE		(#;)	(#)	(#)	(ft.)	(gallons)	(ng/L)	(ng/L)	(µg/L)	(ng/L)	(πg/L)
Groundwater Cleanup Level	evel						43	48,500	6,910	1	9,880
(cont)											
01/12/01	<u>(D</u>	100.30	10.16	90.14	0.00	1	315	234	117	1	33.9
05/24/01		100.30	9.14	91.16	0.00	ı	ı	1	I	I	:
06/21/01		100.30	7.97	92.33	0.00	ı	ı	1	1	ı	ı
06/27/01		100.30	70.6	91.23	0.00	1	591	328	295	Į.	79.5
06/27/01	(D)	100.30	70.6	91.23	0.00	1	1,090	765	936	1	262
03/18/02		100.30	7.09	93.21	0.00	1	1,190	1,010	916	1	130
07/02/02		100.30	8.37	91.93	0.00	1	844	742	871	ľ	ı
09/28/02		100.30	10.08	90.22	0.00	ı	ŀ	ï	Ē	1	ı
12/31/02		100.30	1	1	96.0	ı	I	1	;	ŀ	ı
02/27/03		100.30	1	ī	0.17	Ĭ	1	1	;	1	
03/29/06		100.30	8.35	92.53	0.72	Z 	OT SAMPLED D	UE TO THE PR	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL		ı
03/21/07		100.30	7.95	92.72	0.46	Z 	OT SAMPLED D	UE TO THE PR	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL		ı
03/25/08		100.30	8.68	91.62	0.005	Z	OT SAMPLED D	UE TO THE PR	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL		1
180/60-80/60		100.30	9.39	***56.06	0.05	0.20 <sup>5</sup> N	OT SAMPLED D	UE TO THE PR	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL		1
12/11/08		100.30	9.90	***59.06	0.31	1.00 <sup>5</sup> S.	SAMPLED SEMI-ANNUALLY	ANNUALLY		1	1
03/30-31/091		100.30	8.44	92.05**	0.24	1.11 <sup>5</sup> N	OT SAMPLED D	UE TO THE PR	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL		1
06/15/091		100.30	8.31	92.16**	0.21	0.34 <sup>5</sup> S.	SAMPLED SEMI-ANNUALLY	ANNUALLY		1	1
09/10-11/091		100.30	10.14	90.18**	0.02	0.00 N	OT SAMPLED D	UE TO THE PR	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL		1
$02/23/10^{1}$		100.30	7.14	93.17**	0.01	0.00	1	1	1	1	1
03/15/101		100.30	7.24	93.06	00.00	00:00	1,200	250	086	3	110
9/15/101,13		100.30	9.48	90.82	0.00	0.00	026	180	920	3	130
12/04/10		100.30	UNABLE TO LOCATE	CATE	1	1	1	1	1	3	1
MW-11											
08/11/99		100.59	1	1	0.00	1	<1.00	<1.00	<1.00	1	<1.01
10/22/99		100.59	1	1	0.00	1	<0.500	<0.500	<0.500	1	<0.0082
06/21/01		100.59	11.30	89.29	0.00	1	<1.00	<1.00	×1.00	1	<1.00
03/18/02		100.59	10.96	89.63	0.00	1	1.18	2.77	2.57	1	<1.00
09/16/03		100.59	13.03	87.56	0.00	1	<0.500	<0.500	<0.500	1	<1.00
12/15/03		100.59	13.92	29.98	0.00	1	<0.500	<0.500	<0.500	1	2.21
03/25/04		100.59	11.17	89.42	0.00	1	<0.500	<0.500	<0.500	1	<0.101
09/22/04		100.59	12.05	88.54	0.00		1	ľ	H	ľ	. 1
03/14/05		100.59	11.90	69.88	0.00	1	ï	t	1	:	1)
03/29/06		100.59	10.32	90.27	0.00	1	1	ı	1		1
03/21/07		100.59	8.36	92.23	0.00	ı	<0.500	<0.500	<0.500	1	<5.01
03/25/08		100.59	9.38	91.21	0.00	1	<0.5	<0.5	<0.5	1	0.060
03/25/08	(D)	100.59	9.38	91.21	0.00	1	<0.5	<0.5	<0.5	ï	0.058

Table 1
Groundwater Monitoring and Analytical Results
Former Chevron Bulk Plant #1001327
1602 North Northlake Place
Seattle, Washington

WELL ID DATE	TOC*	DTW (ft.)	GWE (ft.)	LNAPLT (ft.)	LNAPL Removec (gallons)	B (ug/L)	T (ug/L)	E (ug/L)	X (T/an)	Napthalene (ue/L)
Groundwater Cleanup Level						43	48,500	6,910	-	9,880
MW-11(cont)	03 001	30.01	200	o o		,	(	i		
12/11/08	100.59	10.55	90.24	0.00	ı	<0.5	<0.05	<0.5	:	<1.0
03/30 31/00	100 50	0.01	00'00	0.00		AMPLED SEMI	AINIOALLI	Ç	1	1 -
05/15/09	100 59	INACCESSIBLE		0.00	1 1	C)	6.0	<.U.5	1	V.I.
09/10-11/09 vip9	100 61	8 07	92 54	00.0		30	,	1 0	1	۱ -
	100.61	8,60	92.01	00.0	1 1	C	j.	C'0/	1 1	0.17
03/15/10	100 61	8 75	98 16	000	0	\$ 0>	<b>V</b>	50		
01/5/10	10001	10.27	90.34	00.0	1 1	505	5.0	50.5	1 8	0.7
12/04/10	100.61	10.37	90.24	000	I	} I	; ;	Ç. 1	1 1	0.1
03/14/11	100.61	9.33	91.28	0.00	j	ï	1	1	1	ı
MW-12										
08/11/99	100.11	t	ı	0.00	1	1590	218	466	í	87.5
10/21/99	100.11	l	1	0.00		491	1200	230	1	6.86
03/25/04	101.11	7.54	93.57	00.00		510	294	454	Î	98.5
03/29/06	100.11	7.51	92.60	0.00		OT SAMPLED I	OUE TO THE PRI	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL	Ţ	ŧ
03/21/07	100.11	7.32	92.79	0.00	Z 	OT SAMPLED I	OUE TO THE PRI	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL	ŗ	ı
03/25/08	100.11	8.09	92.02	0.00	Z	OT SAMPLED I	OUE TO THE PRI	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL	Ţ	1
80/60-80/60	100.11	8.65	91.46	0.00	1	530	130	230	1	65
12/11/08	100.11	8.62	91.50**	0.01	- S	SAMPLED SEMI-ANNUALLY	ANNUALLY		1	1
03/30-31/091	100.11	7.54	92.58**	10.0	ı	750	640	270	1	170
06/15/09	100.11	7.92	92.19	0.00	ı	1	1	;	1	1
09/10-11/09	100.11	9.23	**68.06	0.01	ı	510	140	180	1	44
02/23/101	100.11	06.9	93.21	0.00	1	1	1	ŀ	1	1
03/15/101	100.11	7.23	92.88	0.00	ı	630	260	250	1	110
09/15/10 <sup>4,13</sup>	100.11	8.62	91.49	0.00	ı	490	130	230	1	29
12/04/10	100.11	LOCATE	LOCATED BEHIND LOCKED GATE	KED GATE	1	1	1	3	1	ì
MW-14										
07/26/01	98.87	13.05	85.82	0.00	1	<1.00	<1.00	<1.00	ı	<1.00
03/29/06	98.87	13.32	85.55	0.00	1	1	1	1	1	1
03/21/07	98.87	13.33	85.54	0.00	1	1	1	ı	1	1
03/25/08	78.86	13.38	85.49	0.00	1	1	1	ı	H	ı
80/60-80/60	98.87	13.50	85.37	0.00	1	1	1	1	ľ	ï
12/11/08	98.87	MONITORED SEMI-ANNUALLY	MI-ANNUALLY		1	1	1	ı	ı	ï
03/30-31/09	78.86	13.10	85.77	0.00	1	ı	1	F	1	1
09/10-11/09	78.86	14.00	84.87	0.00	1		I	E	1	1
03/15/10	98.87	13.49	85.38	0.00	ı	ľ	1	ŀ	ı	1
09/15/10	78.86	UNABLE TO LO	CATE - COVERE	UNABLE TO LOCATE - COVERED BY LANDSCAPING	ING		ı	I	I	ī

Table 1
Groundwater Monitoring and Analytical Results
Former Chevron Bulk Plant #1001327
1602 North Northlake Place
Seattle, Washington

WELL ID DATE	TOC*	DTW (ft.)	GWE (ft.)	LNAPLT (ft.)	LNAPL Removed (gallons)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	Napthalene (ug/L)
Groundwater Cleanup Level						43	48.500	6,910		9,880
MW-15										
08/10/99	98.83	l	1	0.00	:	3.28	2.89	35.4	ı	12.5
10/20/99	98.83	13.96	84.87	0.00	1	6.92	57.1	47.7	1	1.46
07/26/01	98.83	13.04	85.79	0.00	1	13.8	9.00	18.1	ı	10.30
03/18/02	98.83	13.62	85.21	0.00	1	<1.00	1.49	2.46	1	<1.01
06/26/03	98.83	13.05	85.78	0.00	•	0.719	<0.500	0.612	1	1
09/16/03	98.83	14.35	84.48	0.00	1	2.85	30.6	39.6	1	42.2
03/29/06	98.83	13.00	85.83	00.00	3	1	1	1	1	1
03/21/07	98.83	13.33	85.50	0.00	•	1	1	1	1	1
03/25/08	98.83	13.36	85.47	0.00	1	1	;	1	1	1
80/60-80/60	98.83	13.46	85.37	0.00		1	}	1	1	1
12/11/08	98.83	MONITORED S	MONITORED SEMI-ANNUALLY		1	1	1	1	1	1
03/30-31/09	98.83	13.12	85.71	0.00	1	1	1	1	1	1
09/10-11/09	. 98.83	13.97	84.86	00.00	1	1	ł	1	1	1
03/15/10	98.83	15.50	83.33	0.00	1	1	1	1	1)	1
09/15/10	98.83	15.87	82.96	00'0	MONITORING ONLY	CY		1	1	1
03/14/11	98.83	14.99	83.84	00'0	1	1	1	ı	1	1
MW-19										
08/11/99	98.10	I	1	00.00	ı	<1.00	<1.00	<1.00	ı	<1.00
10/20/99	08.10	i	:	0.00	:	<0.500	<0.500	<0.500	1	<0.021
06/21/01	98.10	11.99	86.11	00.00	E	<1.00	√1.00	<1.00	Ī	<1.00
06/26/03	98.10	12.02	80.98	00'0	:	<0.500	~0.500	<0.500	ï	<0.100
09/16/03	98.10	13.67	84.43	0.00	ì	<0.500	<0.500	<0.500	ı	<1.00
12/15/03	98.10	13.60	84.50	0.00	:	<0.500	<0.500	<0.500	1	<1.00
03/26/04	98.10	12.74	85.36	0.00	1	<0.500	<0.500	<0.500	I	0.197
03/26/04 (D)	01.86	12.74	85.36	0.00	:	<0.500	<0.500	<0.500	1	0.112
09/23/04	98.10	12.82	85.28	0.00		<0.500	<0.500	<0.500	ŀ	<1.00
03/14/05	98.10	13.16	84.94	0.00	1	<0.500	<0.500	<0.500	1	<0.100
03/14/05 (D)	98.10	13.16	84.94	0.00	1	<0.500	<0.500	<0.500	1	<0.100
03/29/06	98.10	12.63	85.47	00.00		<0.500	<0.500	<0.500	1	<1.00
03/29/06 (D)	98.10	12.63	85.47	00.0		<0.500	<0.500	<0.500	1	<1.00
03/21/07	98.10	12.71	85.39	00'0	:	< 0.500	<0.500	<0.500	1	<5.00
03/21/07 (D)	98.10	12.71	85.39	00.00	1	<0.500	<0.500	<0.500	1	<5.00
03/25/08	98.10	12.70	85.40	0.00	1	<0.5	<0.5	<0.5	1	0.026
03/25/08 (D)	01.86	12.70	85.40	00.00	1	<0.5	<0.5	<0.5	1	0.023
80/60-80/60	98.10	12.81	85.29	00.00	1	<0.5	<0.5	<0.5	1	<5.03
12/11/08	98.10	MONITORED/S	MONITORED/SAMPLED SEMI-ANNUALLY	NNUALLY		1	1	1	1	1

Table 1
Groundwater Monitoring and Analytical Results
Former Chevron Bulk Plant #1001327
1602 North Northlake Place
Seattle, Washington

WELL ID	TOC*	DTW	GWE	LNAPLT	LNAPL Removed	B	T	3	×	Napthalene
DATE	(ft.)	(ft.)	(tt.)	(ft.)	(gallons)	(ng/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Groundwater Cleanup Level						43	48,500	6,910	1	9,880
Mary 10 (come)										
03/30-31/00	01 86	12 57	85 53	000	3	202	3 0	\$ 0 >	,	0.7
09/10-11/09	98.10	13.30	84.80	000		<0.5	5.0	50.5	. 1	0.1
03/15/10	98.10	12.85	85.25	0.00	1	<0.5	<0.5	<0.5	t	<1.0
09/15/10	98.10	13.18	84.92	0.00		<0.5	<0.5	<0.5	1	<1.0
11/16/11	30.87	13.62	17.25	0.00	ī	<0.2	<0.2	<0.2	į	<1.0
06/21/12	30.87	11.93	18.94	0.00	1	1	1	1	1	1
09/20/12	30.87	13.50	17.37	0.00	1	<0.5	<0.5	<0.5	1	0.083
12/26/12	30.87	13.55	17.32	0.00	1	<0.5	<0.5	<0.5	1	ı
04/24/13	30.87	12.18	18.69	0.00	1	<0.5	<0.5	<0.5	1	<0.030
MW, 10										
05/11/80	98 74	1	1	000	1	7.72	2.19	148	ı	82.1
10/20/99	98.74	13 00	84.75	000	J	71.8	5.69	184	1	256
00/38/00	98 74	13.41	85 33	000	1	1	1	1	1	1
06/21/01	98.74	12.61	86.13	0.00	1	1.66	<1.00	2.68	1	<1.00
03/19/02	98.74	13.69	85.05	0.00	1	<1.00	<1.00	3.48	1	1.77
03/19/02 (D)	98.74	13.69	85.05	0.00	1	<1.00	<1.00	3.3	1	2.21
	98.74	12.92	85.82	0.00	1	26.5	2.28	0.19	1	20.96
09/16/03	98.74	14.29	84.45	0.00	ı	28.9	3.04	35.7	1	12.5
12/15/03	98.74	14.34	84.40	0.00	E	<0.500	<0.500	<0.500	1	<1.00
03/26/04	98.74	13.36	85.38	0.00	E	0.877	<0.500	0.731	I	<0.100
03/14/05	98.74	13.80	84.94	0.00	Ē	E	1	1	L	1
03/29/06	98.74	13.26	85.48	0.00	Ē	E	1	I	E	1
03/21/07	98.74	13.33	85.41	0.00	Ī	<0.500	<0.500	<0.500	E	<5.00
03/25/08	98.74	13,33	85.41	0.00	1	0.5	<0.5	<:0.5	L	0.019
80/60-80/60	98.74	13.42	85.32	0.00	1	7.0	1.7	1.2	E	<5.0
12/11/08	98.74	MONITORED/SAMPLED SEMI-ANNUALLY	MPLED SEMI-A	NNUALLY		;	1	ŀ	I	Ī
03/30-31/09	98.74	INACCESSIBLE		Ī	ī	Ţ	1	:	I	1
09/10-11/09	98.74	13.92	84.82	0.00	ī	4.1	8.0	7	I	<5.010
03/15/10	98.74	13.46	85.28	0.00	ī	<0.5	<0.5	<0.5	1	2.1
09/15/10	98.74	13.79	84.95	0.00	1	1.60	1.00	1.20	1	4.5
11/16/11 (D)	31.49	14.22	17.27	0.00	1	1.50	0.00	0.80	ı	8.40
06/21/12	31.49	12.53	18.96	0.00	ſ					
09/20/12	31.49	14.11	17.38	0.00		3.20	1.30	1.40	1	0.47
12/26/12	31.49	14.20	17.29	0.00	1	<0.5	<0.5	<0.5	1	1
04/23/13	31.49	12.80	18.69	0.00	1	<0.5	<0.5	<0.5	1	0.04
MW.21										
6/1/80	98.52	1	ł	0.00	9	12.1	1.93	<1.00	3	<1.00
10/19/99	98.52	1	1	0.00	1	69.6	1.49	<0.750	1	1
06/21/01	98.52	12.31	86.21	0.00	1	2.46	<1.00	<1.00	1	<1.00
06/21/01 (D)	98.52	12.31	86.21	00.00	ì	2.70	<1.00	<1.00	1	1.76
03/18/02	98.52	13.36	85.16	0.00	1	10.5	1.25	<1.00	1	4.09
06/26/03	98.52	12.66	85.86	0.00	1	5.82	0.687	0.850	1	1.37
09/16/03	98.52	13.98	84.54	0.00	1	5.43	98.0	<0.500	1	7.01
12/15/03	98.52	14.05	84.47	00.00	ľ	4.95	0.88	<0.500	ı	12.4

Table 1
Groundwater Monitoring and Analytical Results
Former Chevron Bulk Plant #1001327
1602 North Northlake Place
Scattle, Washington

m i iam	*207	'MT'U	CWP	TANAMA	I MANT D	4	÷	p	3	
WELL ID DATE	(A)	Off.)	GWE (ft)	(ft.)	LNAFL Remover (gallons)	B (µg/L)	- (μg/L)	E (µg/L)	Α (μg/L)	Napthalene (µg/L)
Groundwater Cleanup Level						43	48.500	6,910	1	9,880
MW-21 (cont)										
03/26/04	98.52	13.08	85.44	0.00	1	5.28	0.854	<0.500	ı	10.1
09/23/04	98.52	13.19	85.33	0.00	1	5.45	908.0	<0.500	l	\$
03/14/05	98.52	13.51	85.01	0.00	:	4.55	0.693	<0.500	ı	3.57
03/29/06	98.52	12.98	85.54	0.00	t	4.19	0.800	<0.500	ı	4.01
03/21/07	98.52	13.00	85.52	0.00	1	4.31	098'0	<0.500	1	90.9
03/25/08	98.52	13.02	85.50	0.00	1	4.4	9.0	<0.5	1	12
80/60-80/60	98.52	13.14	85.38	0.00		0.9	9.0	<0.5	I	18
12/11/08	98.52	MONITORED/SAMPLED SEMI-ANNUALLY	MPLED SEMI-	ANNUALLY		I	I	1	ı	I
03/30-31/09	98.52	12.86	85.66	0.00		0.9	8.0	9.0	1	15
09/10-11/09	98.52	13.63	84.89	0.00	ı	5.1	0.7	<0.5	1	<1510
03/15/10	98.52	13.15	85.37	0.00	ı	3.6	9.0	<0.5	1	<2010
09/15/10	98.52	13.51	85.01	0.00	:	2.50	0.50	<0.5	1	11.00
03/14/11	98.52	13.05	85.47	0.00	:	1	1	1	1	1
09/24/11	31.26	13.51	17.75	0.00		<0.2	<0.2	<0.2	1	<1.0
10/10/11	31.26	13.83	17.43	0.00	1	1	ı	1	1	1
06/21/12	31.26	12.24	19.02	0.00		:		1	1	1
09/20/12	31.26	13.82	17.44	0.00	1	<7.0	0.7	<0.5	;	0.84
12/26/12 (D)	31.26	13.86	17.40	0.00	:	2.7	9.0	0.5	1	1
12/26/12	31.26	13.86	17.40	0.00	1	2.7	9.0	9.0	1	
04/23/13	31.26	12.47	18.79	0.00	ı	11.0	8.0	6.0	ŀ	1.3
MW-22										
08/10/99	92.66	1	1	0.00	;	1,140	44.9	93.5	;	7.56
10/22/99	92.66	1	1	0.00	1	1,680	109	161	1	1
01/06/00	96.76	1	1	0.00	1	1,410	46.8	105	1	.1
01/15/01	92.66	1	1	0.00	1	2,040	191	254	1	19.2
06/21/01	92.66	13.53	86.23	0.00	ı	1,710	64.8	144	ľ	<50.0
03/18/02	92.66	14.41	85.35	0.00	ı	1,920	85.5	242	ţ	21.3
07/02/02	92.66	13.56	86.20	0.00	ı	2,000	84.9	288	II.	ľ
09/03/02	92.66	14.95	84.81	0.00	1	2,020	8.99	312	I)	Ē
12/31/02	92.66	15.22	84.54	0.00	I	2,360	159	385	ı	•
06/25/03	92.66	13.91	85.85	0.00	1	1,950	84.4	273	I	1
09/16/03	92.66	15.15	84.61	0.00	ı	2,590	189	425	1	<50.0
12/17/03	92.66	15.03	84.73	0.00	ı	1,250	52.9	188	1	15.8
12/17/03 (D)	92.66	15.03	84.73	0.00	ı	1,920	59	207	ı	18.5
03/25/04	92.66	14.20	85.56	0.00	ī	1,630	35.4	208	1	14.9
09/22/04	92.66	14.28	85.48	0.00	Î	1	1	1	1	1
03/14/05	92.66	14.70	85.06	0.00	ī	1	1	I	1	-
03/29/06	92.66	14.21	85.55	0.00	1	1	1	1	1	1
03/21/07	92.66	14.31	85.45	0.00	1	840	54.5	117	1	20.8
03/25/08	97.66	14.35	85.41	0.00	1	730	31	06	1	5.5
80/60-80/60	92.66	14.47	85.29	0.00	ı	880	46	130	1	14
12/11/08	97.66	MONITORED/SAMPLED SEMI-ANNUALLY	MPLED SEMI-4	ANNUALLY		3	1	1	1	1

Table 1
Groundwater Monitoring and Analytical Results
Former Chevron Bulk Plant #1001327
1602 North Northlake Place
Seattle, Washington

WELL ID DATE	TOC*	DTW (ft.)	GWE (ft.)	LNAPLT (ft.)	LNAPL Remover (gallons)	B (ug/L)	T (ug/L)	E (ue/L)	X (1(gh))	Napthalene (ug/L)
Groundwater Cleanin Level						43	48.500	6.910	ı	9.880
The state of the s						24	10000	01/10		7,000
MW-22 (cont)				7967						
03/30-31/09	92.66	14.09	85.67	0.00	1	830	37	86	ı	7.3
09/10-11/09	97.66	15.02	84.74	0.00	1	1,100	42	130	1	10
03/15/10	97.66	14.46	85.30	0.00	1	720	25	70	ı	5.0
09/15/10	92.66	14.82	84.94	00.00	1	820	50	100	ı	6.9
03/14/11	92.66	14.25	85.51	0.00	ti	1	Î	E	ı	Ĭ.
22								٠		
MW-24		;		6			4	4		
03/21/07	1	23.01	I	0.00	I	<0.500	<0.500	<0.500	1	<5.00
03/25/08	1	23.35	ı	0.00		ı	ı	t	Ī	Ê
80/60-80/60	ı	23.84	1	00.00	1	1	Î	I	ı	I
12/11/08	ı	MONITORED SI	MONITORED SEMI-ANNUALLY		1	ı	1	ı	ı	1
03/30-31/09	1	23.60	1	0.00	1	1	Ī	I	1	1
	1	24.13	1	0.00	1	1	1	ſ	1	1
03/15/10	1	22.76	1	0.00	1	1	ı	1	1	1
09/15/10	1	23.71	1	0.00	1	1	Ī	1	1	Ĭ
03/14/11	1	22.39	1	0.00	1	1	1	}	1	î
12/26/12	69.77	22.42	47.35	0.00	1	1	Ī	1	1	1
MW-25										
66/60/80	98.17	1	1	0.00	ı	<1.00	<1.00	<1.00	1	<1.00
66/61/01	98.17	14.37	83.80	0.00	1	<0.500	<0.500	<0.500	1	<0.023
01/06/00	98.17	1	1	0.00	1	<0.500	<0.500	<0.500	1	1
07/27/00	98.17	12.41	85.76	0.00	1	<1.00	<1.00	<1.00	3	<1.00
09/29/00	98.17	13.16	85.01	0.00	1	1	1	1	1	1
09/29/00	98.17	13.16	85.01	0.00	1	1	1	. 1	1	1
07/26/01	98.17	12.65	85.52	0.00	1	<1.00	<1.00	<1.00	1	<1.00
03/19/02	98.17	13.12	85.05	0.00	1	2.06	<1.00	<1.00	t	<1.00
07/02/02	98.17	12.04	86.13	0.00	ı	28.4	11.5	2.85	1	1
09/03/02	98.17	13.61	84.56	0.00	1	0.89	0.810	<0.500	1	
10/11/02	98.17	I	98.17	0.00	1	61	<0.500	<0.500	1	
12/31/02	98.17	13.97	84.20	0.00	ï	0.557	<0.500	<0.500	E	1
03/26/03	98.17	13.34	84.83	0.00	Ĥ	3.20	0.617	<0.500	ı	1
04/28/03	98.17	12.13	86.04	0.00	ı	15.5	1.64	1.56	1	1
05/30/03	98.17	, 12.1	86.07	0.00	ī	21.8	0.872	2.69	1	1
06/25/03	98.17	12,49	85.68	0.00	Î	90.6	0.545	1.33	1	<0.100
09/15/03	98.17	13.78	84.39	0.00	i	<0.500	<0.500	<0.500	1	<1.00
12/15/03	98.17	13.88	84.29	0.00	ï	<0.500	<0.500	<0.500	1	1.76
03/25/04	98.17	12.80	85.37	0.00	ī	<0.500	<0.500	<0.500	1	<0.100
09/22/04	71.86	12.94	85.23	0.00	ī	<0.500	<0.500	<0.500	3	<0.100

Table 1
Groundwater Monitoring and Analytical Results
Former Chevron Bulk Plant #1001327
1602 North Northlake Place
Seattle, Washington

WELL ID DATE	TOC*	DIW (ft.)	GWE (ft)	LNAPLT (ft)	LNAPL Removec (gallons)	В (µg/L)	T (mg/L)	E (µg/L)	X (μg/L)	Napthalene (ug/L)
Groundwater Cleanup Level						43	48,500	6,910	ı	9,880
(troop) 35 (MAN)										
03/14/05	08.17	13.25	84 97	000		00500	00 800	005 0		0100
03/29/06	98.17	12,72	85.45	0.00	1	<0.500	<0.500	<0.500	1	<1.00
03/21/07	98.17	12.51	85.66	0.00	1	<0.500	<0.500	<0.500	ı	<5.00
03/25/08	98.17	12.78	85.39	00'0	1	<0.5	<0.5	<0.5	ı	0.013
80/60-80/60	98.17	12.89	85.28	0.00	1	<0.5	<0.5	<0.5	1	<1.0
12/11/08	71.86	MONITORED/S	MONITORED/SAMPLED SEMI-ANNUALLY	NNUALLY		1	1	I	Ĭ	ľ
03/30-31/09	71.86	12.60	85.57	0.00	ľ	<0.5	<0.5	<0.5	1	<1.0
09/10-11/09	98.17	13.41	84.76	0.00	ı	<0.5	<0.5	<0.5	1	<1.0
03/15/10	98.17	12.95	85.22	0.00	1	<0.5	<0.5	<0.5	ı	1.6
09/15/10	98.17	13.25	84.92	00'0	ı	<0.5	<:0.5	<0.5	1	<1.0
03/14/11	98.17	12.88	85.29	00.00	I	ı	ı	ı	1	ı
09/25/11	30.91	13.50	17.41	0.00	1	<0.2	<0.2	<0.2	ı	~1.0 ~1.0
10/10/11	30.91	13.30	17.61	0.00	ľ	1	ı	Į	1	I
06/21/12	30.91	12.01	18.90	0.00		1	1	1	1	1
09/20/12	30.91	13.56	17.35	00'0	1	<0.5	<0.5	<0.5	t	0.054
12/26/12	30.91	13.76	17.15	0.00	ı	<0.5	<0.5	<0.5	1	1
04/22/13	30.91	12.30	18.61	0.00	1	<0.5	<0.5	<0.5	ı	<0.031
MW-26										
66/60/80	97.87	I	1	0.00	3	<1.00	<1.00	<1.00	1	<1.00
10/19/99	97.87	1	1	0.00	1	<0.500	<0.500	<0.500	1	<0.0099
01/06/00	78.76	13.78	84.09	0.00	1	0.621	<0.500	<0.500	1	1
04/12/00	78.76	12.12	85.75	0.00	ı	<1.00	<1.00	<1.00	1	<1.00
06/27/00	97.87	12.55	85.32	0.00	3	<1.00	<1.00	<1.00	1	<1.00
07/26/01	78.76	12.15	85.72	0.00	3	<1.00	<1.00	<1.00	1	<1.00
03/19/02	97.87	12.79	85.08	0.00	1	<1.00	<1.00	<1.00	ı	<1.00
12/31/02	97.87	13.97	83.90	0.00	1	<0.500	<0.500	<0.500	1	1
02/27/03	97.87	12.88	84.99	0.00	1	<0.500	<0.500	<0.500	ı	1
03/26/03	97.87	13.12	84.75	0.00	1	<0.500	<0.500	<0.500	1	1
04/28/03	97.87	11.78	86.09	0.00	L	<0.500	<0.500	<0.500	1	1
05/30/03	97.87	11.73	86.14	0.00	1	<0.500	< 0.500	< 0.500	1	ı
06/25/03	78.76	12.09	85.78	0.00	Ē	<0.500	<0.500	<0.500	1	<0.100
09/15/03	97.87	13.49	84.38	0.00	ı	<0.500	<0.500	<0.500	ı	<1.00
12/15/03	78.76	13.48	84.39	0.00	ı	<0.500	<0.500	<0.500	1	<1.00
09/22/04	18.76	12.55	85.32	0.00	ï	<0.500	<0.500	<0.500	1	<0.100
03/14/05	78.76	12.94	84.93	0.00	1	<0.500	<0.500	<0.500	1	<0.100
03/29/06	78.76	12.37	85.50	0.00	1	<0.500	<0.500	<0.500	I	<1.00
03/21/07	97.87	UNABLE TO LOCATE	CATE	ı	1	1	ı	I	1	1
03/25/08	78.76	12.46	85.41	0.00	ī	<0.5	<0.5	<0.5	1	0.011
80/60-80/60	78.76	12.59	85.28	0.00	1	<0.5	<0.5	<0.5	1	<1.0
12/11/08	78.76	MONITORED/SA	MONITORED/SAMPLED SEMI-ANNUALLY	NUALLY		Ţ	1	1	3	1

Table 1
Groundwater Monitoring and Analytical Results
Former Chevron Bulk Plant #1001327
1602 North Northlake Place
Seattle, Washington

9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	4 15 45 100	3	3	5	4					
WELL ID DATE	10¢ (#)	DIW (ft.)	GWE (ft.)	LNAPLI (ft.)	LNAPL Removec (gallons)	B (ug/L)	T (µg/L)	E (µg/L)	X (µg/L)	Napthalene (µg/L)
Groundwater Cleanup Level						43	48.500	016'9	ı	9,880
No. of the state o										
MW-26 (cont)	1010	10.36	67 38	0		4	ý	ų,		7
03/30-31/09	10.19	12.23	63.02	0.00	ı	5.0	6.5	0.5	H	0.7
09/10-11/09	18.16	13.01	84.80	0.00	E	6.0	5.00	0.5	H	J. 7
03/13/10	19.16	12.90	84.63	0.00	ı	5.0	500	6.0	l	7.7
03/13/10	18.17	12.24	64.59	0.00		C.) :	? }	Ç	1 1	0.1
09/14/11	30.62	13.20	17.42	0.00		<0.5	<0>	<0>		V
10/10/11	30.62	13.00	17.62	00.0		1 (	<del>1</del>	7 1		2: 1
10,001	30.02	00.01	19.04	00.0	ı		ľ		E !	Ē
06/21/12	30.62	11.06	16.94	0.00	ı	ı	ŀ	1	ı	1
09/20/12	30.62	13.23	15.71	0.00	I	1 6	1 0	1 0	I	000
	30.62	13.28	17.34	0.00	I	<0.5	<0.5	<0.5 0.5	1	<0.030
09/21/12 (D)	30.62	13.28	17.34	0.00	ı	<0.5	<0.5 0.5	÷0.5	1	<0.030
12/26/12	30.62	13.24	17.38	0.00	1	<0.5	<0.5	0.5	t	1 0
04/22/13	30.62	11.90	18.72	0.00	ī	<0.5	<0.5	<0.5	ľ	<0.031
MW-27										
13/99	101.17	;	;	1	1	10.8	<0.500	<1.00	1	<0.100
10/22/99	101.17	1	1	1	Ĭ	4.44	<0.500	<0.500	1	5.86
01/06/00	101.17	;	1	1	1	10.5	<2.50	<2.50	1	ı
05/24/01	101.17	11.11	90.64	0.73	1	1	ı	;	1	1
06/27/01	101.17	10.07	91.72	0.72	1	1	1	1	3	1
03/18/02	101.17	9.07	92.16	0.07	1	1	ı	1	:	1
10/16/02	101.17	1	1	0.05	. II	1	1	1	1	
12/31/02	101.17	;	1	0.02	1	1	1	1	3	:
06/26/03	101.17	11.08	90.29	0.25	ii.	1	-	1	1	:
07/21/03	101.17	;	1	0.46	;	1	1	1	1	1
08/28/03	101.17	L	1	0.21	1	;	;	1	1	1
10/16/03	101.17	5.97	95.20	0.00	1	1	1	1	1	:
11/21/03	101.17	1	1	0.00	1	1	1	1	1	1
12/17/03	101.17	t	1	0.00	1	1	1	1	1	ı
03/29/06	101.17	9.14	92.03	0.00	1	1	I	1	1	ı
03/21/07	101.17	7.91	93.27	0.01	1	1	1	1	1	1
03/25/08	101.17	10.57	09.06	0.00	1	ı	1	-	ı	ſ
180/60-80/60	101.17	10.83	90.48**	0.17	0.285	f	1	Ü	ſ	ı
12/11/081	101.17	11.19	**66.68	0.01	Ē	E	1	ī	I.	I
03/30-31/091	101.17	9.92	91.26**	0.01	Ē	ſ	ı	Ē	E	į
06/15/09	101.17	19.6	91.51**	0.01	ı	E	Ī	Ü	t	Ī
09/10-11/09	101.17	11.27	90.04**	0.17	0.35	I	I	Ē	I	1
02/23/10	101.17	9.37	08.16	0.00	Ĭ	I	1	Ĭ	1	1
03/15/10	101.17	9.48	**01.16	0.01	ı	l	1	Ī	I	1
09/15/101	101.17	11.21	90.13**	0.21	0.0533	Ī	į	1	I	1
12/04/10	101.17	10.56	**L9.06	80.0	0.050	ı	1	I	4	1
3/14/2011	101.17	27.77	73.40	0.07	0.050	1	1	1	1	H
11/16/11	34.01	11.27	22.74	0.00	1	1	1	î	3	1
12/08/11	34.01	82.6	24.30	0.09	0.0503	I	1	1	1	1
03/23/12	34.01	8.18	25.85	0.03	1.0	I	1	1	1	H
06/01/12	34.01	8.45	25.72**	0.20	1.0	1	1	1	1	1
09/20/12	34.01	11.30	22.89**	0.23	1	1	3	1	1	1
12/26/12	34.01	6.44	27.59**	0.03	-	1	1	1	1	1
04/22/13	34.01	7.34	26.68**	0.01	1		1	1	1	J.

Table 1
Groundwater Monitoring and Analytical Results
Former Chevron Bulk Plant #1001327
1602 North Northlake Place
Scattle, Washington

WELL ID DATE	TOC*	DTW (#.)	GWE (ft.)	LNAPLT I	LNAPL Remover	B (ue/L)	T (ug/L)	E (uv/L)	X (T/an)	Napthalene (119/L)
Groundwater Cleanup Level						43	48,500		-	9,880
MW.78										
08/11/99	100.35	1	,	000		1 810	1.450	884	,	238
10/21/99	100.35	1	I	0.00	1	2,890	2.700	1.350	ı	180
10/21/99	100.35	ſ	1	0.00	1	2,700	2,480	1,280	1	
00/90/10	100.35	6.93	93.42	0.00	ı	1,770	2,090	1,180	1	1
07/27/00	100.35	7.45	92.90	0.00	ı	1,840	2,420	702	I	356
09/29/00	100.35	8.5	91.85	0.00	I	927	902	450	1	í
01/15/01	100.35	8.59	91.76	0.00	ı	1,970	2,070	635	ı	8.86
06/21/01	100.35	7.66	92.69	0.00	ı	1,950	3,130	1,190		272
03/18/02	100.35	6.02	94.33	0.00	ı	ı		1	ı	ı
06/26/03	100.35	7.57	92.78	0.00	1	1,230	615	1,290	t	1
09/15/03	100.35	8.96	91.39	0.00	1	848	175	916	1	272
12/15/03	100.35	7.56	92.79	0.00	1	188	474	1,010	1	284
03/25/04	100.35	7.07	93.28	0.00	1	712	281	854	1	288
09/22/04	100.35	8.16	92.19	0.00	1	1	1	1	1	1
03/14/05	100.35	8.45	91.90	0.00	1	3	1	1	1	1
03/29/06	100.35	6.64	93.71	0.00	1	1	1	1	1	1
03/21/07	100.35	98.9	93.49	0.38		SAMPLED DUI	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL	NCE OF LNAPL		1
03/25/08	100.35	7.25	93.24	0.17		SAMPLED DUI	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL	NCE OF LNAPL		1
80/60-80/60	100.35	8.04	92.34**	0.04	0.165	1	1	1	1	1
12/11/081	100.35	8.15	92.21**	0.01	1	1	1	1	1	1
03/30-31/091	100.35	6.84	93,52**	0.01	1	1	1	1	1	1
160/1/90	100.35	7.21	93.15**	0.01	1	1	1	1	ı	1
09/10-11/09	100.35	8.16	92.21**	0.03	1	1	1	E,	1	1
02/23/10	100.35	6:39	93.97**	0.01	1	1	ı	1	Ę	:
03/15/101	100.35	6.05	94.30	0.00	E	1		į.	į.	:
9/15/101	100.35	7.76	92.60**	0.01	1	E	ı	1	ı	1
12/04/10	100.35	LOCATED	LOCATED BEHIND LOCKED GATE	GATE	ľ	4	i.	Ē	ı	ı
3/14/2011"	100.35	5.3	95.05	I.	ī	ı	!	ı	E	ı
AGI-2										
66/01/80	97.95	I	I	0.00	ï	38.8	11.7	1.57	1	<1.00
10/20/99	97.95	ı	ı	0.00	ï	20.3	12.1	5.14	ı	0.097
01/15/01	97.95	13.61	84.34	0.00		41.2	17.8	7.44	1	1
06/21/01	97.95	11.83	86.12	0.00	-	296	<10.0	<10.0	1	<10.0
07/26/01	97.95	12.19	85.76	0.00	ı	397.0	14.9	16.9	1	<1.00
03/18/02	97.95	12.91	85.04	0.00	ı	43.2	78.9	17.6	1	1.68
03/18/02	97.95	12.91	85.04	0.00	ī	40.5	72.8	16.4	3	<2.00
05/07/02	97.95	11.95	86.00	0.00	ı	6.16	2.24	2.76	1	1
06/06/02	97.95	12.51	85.44	0.00	ī	4.58	1.52	2.04	1	1
07/02/02	97.95	11.9	86.05	0.00	ı	3.60	2.52	2.00	1	1
09/03/02	97.95	13.65	84.30	0.00	1	3.48	2.59	3.16	1	1

Table 1
Groundwater Monitoring and Analytical Results
Former Chevron Bulk Plant #1001327
1602 North Northlake Place
Seattle, Washington

WELL ID DATE	TOC*	DTW (#)	GWE	LNAPLT (ft.)	LNAPL Removec	B (ue/L)	T (Mg/L)	E (ne/L)	X (ue/L)	Napthalene (ue/L)
Groundwafer Cleanup Level						43	48.500	0.910	, 1	9.880
AGI-2 (cont)										
12/31/02	97.95	13.75	84 20	000	,	1.10	1.36	1 34	ŀ	1
03/26/03	97.95	12.62	85.33	0.00	1	40.3	481	302	ī	
04/28/03	97.95	12.98	84.97	0.00	1	27.7	351	190	1	1
05/30/03	97.95	12.19	85.76	0.00	1	19.4	358	200	ĩ	1
06/25/03	97.95	12.66	85.29	0.00	3	3.34	1.23	7.70	Ī	<0.100
09/15/03	97.95	13.51	84.44	0.00	ı	1.01	0.832	1.40	Ĩ	<1.00
12/15/03	97.95	13.59	84.36	0.00	1	0.688	0.599	0.851	Î	<1.00
03/26/04	97.95	12.33	85.62	0.00	1	2.06	1.12	1.56	I	<1.00
09/22/04	97.95	12.67	85.28	0.00	1	1	1	I	ì	
03/14/05	97.95	12.99	84.96	0.00	1	1	1	1	1	1
03/29/06	97.95	12.45	85.50	0.00	11	. 1	1	1	1	1
03/21/07	97.95	12.30	85.65	0.00	1	0.78	<0.500	0.58	1	<5.00
03/25/08	97.95	12.53	85.42	0.00	1	. 1	1	1	1	1
80/60-80/60	97.95	12.63	85.32	0.00	1	1	1	1	1	1
12/11/08	97.95	MONITORED SI	MONITORED SEMI-ANNUALLY		1	1	1	1	1	1
03/30-31/09	97.95	12.33	85.62	0.00	1	1	1	1	1	
09/10-11/09	97.95	13.11	84.84	0.00	1	11.	3.5	5.8	1	2.1
03/15/10	97.95	15.92	82.03	0.00	1	3.5	6.0	2.0	1	4.9
09/15/10	97.95	12.99	84.96	0.00	L	19.0	6.5	15.0	I	2.4
03/14/11	97.95	12.58	85.37	1	E	í	C	1	1	1
06/21/12	30.68	11.69	18.99	0.00	ı	1	t	ı	1	1
09/20/12	30.68	13.31	17.37	0.00	1	61.0	12.0	6.2	ı	98.0
12/26/12	30.68	13.41	17.27	0.00	1	11	3.6	1.4	ſ	:
04/23/13	30.68	11.96	18.72	0.00	ı	5.1	::	5.9	ı	0.63
04/23/13 (D)	30.68	11.96	18.72	1.00	I	4.2	1.4	3.9	1	09.0
MLU-1	0.00			000		9	001	5		5
08/10/99	100.18	1 5	1 0	0.00	1	00.1	0.17	00:17	1	0.00
10/20/99	100.18	15.55	04.03	0.00		005.0	005.0	0.500	ı	0.063
01/08/00	100.10	01.01	04.43	0.00		00.0	0000	00.700		5 7
04/12/00	100.18	14.33	00.00	00.00		00.17	7.00	00.17		1.00
00/77/00	100.10	14.74	46.00	0.00	•	00.17	00.1	00:1		00:1-
09/29/00	100.18	15.12	85.06	0.00	1	ı	1	ŀ	1	:
06/25/03	100.18	14.41	85.77	0.00	1	<0.500	<0.500	<0.500	1	<0.100
09/15/03	100.18	15.72	84.46	0.00	ı	0.6280	<0.500	<0.500	1	<1.00
12/15/03	100.18	15.70	84.48	0.00	1	<0.500	<0.500	<0.500	1	<1.00
03/25/04	100.18	14.75	85.43	0.00	1	<0.500	<0.500	<0.500	ı	<0.100
09/22/04	100.18	14.88	85.30	0.00	1	1	J	1	1	1
03/14/05	100.18	15.21	84.97	0.00	1	1	1	1	1	1
03/29/06	100.18	14.65	85.53	0.00	1	1	,	1	1	3
03/21/07	100.18	14.64	85.54	0.00	1	<0.500	<0.500	<0.500	1	<5.00
03/25/08	100.18	14.70	85.48	0.00	1	1	1	1	1	1

Table 1
Groundwater Monitoring and Analytical Results
Former Chevron Bulk Plant #1001327
1602 North Northlake Place
Seattle, Washington

43 48.500 6.910 = = = = = = = = = = = = = = = = = = =	WELL ID DATE	TOC*	DTW (ft.)	GWE (ft)	LNAPLT (ft.)	LNAPL Removed (gallons)	B (µg/L)	T (µg/L)	E (µg/L)	X (ug/L)	Napthalene (µg/L)
The control of the	Groundwater Cleanup Level						43	48,500	6,910	1	9,880
Marie   Mari											
10018   WANDELTOLOCATE	MLU-1 (cont)										
100.18   INVANITORIENSALANIMALIAN   1.00.18   INVANITORIENSALANIMALIANIMALANIMALIANIMALANIMALIANIMALA	80/60-80/60	100.18	UNABLE TO LC	CATE	Ī	ı	1	1	1	ĩ	1
10018   UAMBLETOLOCATE   Colored   Units   UAMBLETOLOCATE   UAMBLETO	12/11/08	100.18	MONITORED S	EMI-ANNUALLY		ı	1	1	1	1	1
100.18   153.2   54.86   0.00   0.45	03/30-31/09	100.18	UNABLE TO LC	CATE	1	1	1	1	ı	1	ı
10018   1482   853.5   0.00	09/10-11/09	100.18	15.32	84.86	0.00	1	<0.5	<0.5	<0.5	:	<1.0
10018   1521   8497   0.00	03/15/10	100.18	14.82	85.36	00.00	1	<0.5	<0.5	<0.5	ī	1.7
1901   1419   85.99   0.00	09/15/10	100.18	15.21	84.97	00.00	1	<0.5	<0.5	<0.5	1	√1.0
13.90   15.1   17.39   0.00	03/14/11	100.18	14.19	85.99	0.00	1	1	ţ	1	1	1
13.90   15.11   17.39   0.00	06/21/12	32.90	13.96	18.94	0.00	ı	1	1	1	ı	1
13.20   15.11   17.29   0.00	09/20/12	32.90	15.51	17.39	0.00	1	1	J	3	Î	3
32.90   15.31   17.59   0.00	09/21/12	32.90	15.51	17 39	000	,	20 5	>0 5	<0.5	ı	<0.031
32.90         14.14         18.76         0.00         —         -45.5         -45.	12/26/12	32.90	15.31	17.59	000	1	<0 >	\$ 0 \$	5 0 5	ŀ	1
11.23	04/22/13	32.90	14.14	18.76	0.00	1	<0.5	<0.5	<0.5	1	<0.030
11.25											
1123	SMPN-1										
11.96	03/15/05	1	11.23	1	00.00	1	1	;	1	1	1
1.   9.84     0.000	10/04/05	1	11.96	:	0.24	1	:	1	1	1	1
100.99   10.85     0.00	03/29/06	1	9.84	:	0.00	1	1	1	1	1	1
100   10   10   10   10   10   10   1	03/21/07	1	68'6	1	0.00	1	1	1	1	1	1
100.99   10.68   93.32**   0.01	03/25/08	1	10.36	1	0.00	1	ı	1	I	ł	ı
100.99   11.30   88.66   0.00	180/08-09/08	100.99	10.68	90.32**	0.01	1	1	1	ı	ı	1
99 <sup>1</sup> 100.99 10.31 90.68** 0.01	12/11/081	100.99	11.30	69.68	0.00	E	1	I.	E	1	ı
100.09   9.73   91.27**   0.01	03/30-31/091	100.99	10.31	**69.06	0.01	ı	1	ſ	1	ı	1
100.99   11.13   89.86   0.00	06/15/091	100.99	9.73	91.27**	0.01	r	ı	1	E	I	1
100.99   9.86   911.3   0.00	09/10-11/09	100.99	11.13	89.86	0.00	E	ı	Ī	E	ï	ı
100.99   9.83   91,7**   0.01	02/23/101	100.99	98.6	91.13	0.00	E	1	ī	E	1	Î
100.99   11.13   8988***   0.01	03/15/101	100.99	9.83	91.17**	10.0	ľ	1	Ī	ľ	ı	Ī
100.99   10.53   90.46   0.00	09/15/101	100.99	11.13	**L8.68	0.01	r	1	1	I	1	Ĩ
33.78         11.27         22.51         0.00         —	12/4/10	100.99	10.53	90.46	0.00		ł	ī	1	ı	ī
33.78         9.79         24.00**         0.01         0.050*         -	11/16/11	33.78	11.27	22.51	0.00		ı	ı	1	1	Ī
33.78       8.27       25.53**       0.02       0.50       —       —       —       —         33.78       8.85       24.93       0.00       —       —       —       —       —         33.78       8.50       25.28**       0.00       —       —       —       —       —         33.78       8.75       25.03       0.00       —       —       —       —       —         -       11.21       —       0.00       —       —       —       —       —         -       9.48       —       0.00       —       —       —       —       —         -       9.48       —       0.00       —       —       —       —       —         -       9.48       —       0.00       —       —       —       —       —         -       101.24       10.51       90.74**       0.01       —       —       —       —       —         -       101.24       10.50       90.19**       0.01       —       —       —       —       —         09       101.24       9.51       9.23       92.01       0.00       — <td< td=""><td>12/08/11</td><td>33.78</td><td>62.6</td><td>24.00**</td><td>0.01</td><td>0.050</td><td>1</td><td>1</td><td>ı</td><td>1</td><td>ı</td></td<>	12/08/11	33.78	62.6	24.00**	0.01	0.050	1	1	ı	1	ı
33.78       8.85       24.93       0.00	03/23/12	33.78	8.27	25.53**	0.02	0.50	1	ı	1	1	1
33.78       11.14       22.78**       0.18       -	06/01/12	33.78	8.85	24.93	0.00	1	1	Ĭ	I	1	1
33.78       8.50       25.28       0.00       -	. 09/20/12	33.78	11.14	22.78**	0.18	1	3	1	1	1	1
33.78         8.75         25.03         0.00	12/26/12	33.78	8.50	25.28	0.00	ı	1	1	1	1	1
- 11.21 - 0.00	04/22/13	33.78	8.75	25.03	0.00	1	i	1	1	ı	ı
11.21	SMPN-2										
- 948	03/15/05	1	11.21	1	0.01	ı	1	1	1	1	1
- 920 - 0.05 - 0.00 - 0	03/29/06	1	9.48	1	0.00	1	1	1	1	1	1
08 <sup>1</sup> 10124 10.51 90.74** 0.01 — — — — — — — — — — — — — — — — — — —	03/21/07	1	9.20	1	0.05	1	1	ı	1	1	1
081         10124         10.51         90.74**         0.01         —	03/25/08	1	10.11	1	0.00	1	1	1	1	ı	ı
101.24         11.06         90.19**         0.01         —	180/60-80/60	101.24	10.51	90.74**	0.01	1	1	1	ł	ı	1
09         101.24         10.12         91.13**         0.01         —	12/11/08	101.24	11.06	90.19**	0.01	1	1	1	1	ı	ı
101.24     9.51     91.74**     0.01	03/30-31/09	101.24	10.12	91.13**	0.01	ı	I	ı	1	ı	1
09     101.24     10.99     90.26**     0.01	06/15/09	101.24	9.51	91.74**	0.01	1	1	ł	1	ł	1
101.24     9.23     92.01     0.00     -     -     -       101.24     9.37     91.88**     0.01     -     -     -     -       101.24     11.07     90.31**     0.18     -     -     -     -       101.24     10.35     90.95**     0.07     -     -     -     -	09/10-11/09	101.24	10.99	90.26**	0.01	ı	ſ	ı	E	ſ	ı
101.24 9.37 91.88** 101.24 11.07 90.31** 101.24 10.35 90.95**	02/23/10	101.24	9.23	92.01	00.00	ı	ı	l	1	ı	ı
101.24 11.07 90.31** 101.24 10.35 90.95**	03/15/10	101.24	9.37	91.88**	0.01	I	1	ı	ï	ı	1
101.24 10.35 90.95**	09/15/10	101.24	11.07	90.31**	0.18	ı	E	Į.	ī	ı	1
	12/04/10	101.24	10.35	**56'06	0.07	ı	1	1	I	ı	1

Table 1
Groundwater Monitoring and Analytical Results
Former Chevron Bulk Plant #1001327
1602 North Northlake Place
Seattle, Washington

WELL ID DATE	TOC.	DIW (ft.)	GWE (ft)	LNAPLT (ft.)	LNAPL Removed (gallons)	B (µg/L)	T (ug/L)	E (mg/L)	χ (μg/L)	Napthalene (ug/L)
Groundwater Cleanup Level						43	48,500	016'9	1	9,880
	*									
SMPN-2(cont)	20.00	0	11.00	00						
11/16/11	33.85	50.0	73.80	0.00	\$0500	ı	l	1	ľ	Ē
12/08/11	33.85	19.6	24.24	0.00	0000	1 1		1 1	1 1	1 1
03/23/12	33.85	8.12	25.75**	0.02	0.50	- 1	1	1	1	1
06/01/12	33.85	8.40	25.53**	0.10	1.00	1	ï	I	I	Ĩ
09/20/12	33.85	11.11	22.87**	0.16	ī	į	Ī	1	1	ī
12/26/12	33.85	8.51	25.34	0.00	1	1	1	1	1	ī
04/22/13	33.85	7.88	25.97	0.00	1	1	1	1	ı	ı
CARDAL 3										
SMFN-3		77 11		000						
03/13/03	1	011.40	1	0.00	1	ı	ı	ı	ı	ï
03/29/06	1	9.56	ı	0.00	1	I	ì	ł	I	I
03/21/07	l	9.03	1	0.00	ı	1	1	1	1	1
03/25/08	1 .	10.30	1 6	0.00	1 .	1	I	ı	1	ı
.80/68-08/08	101.02	10.67	90.36**	0.01	1	;	1	1	ŀ	1
12/11/08	101.02	11.26	89.76	0.00	1	1	I	1	ı	ı
03/30-31/09	101.02	10.28	90.75**	0.01	:	1	1	1	1	1
06/15/09	101.02	9.59	91.43	0.00	:	1	1	;	1	ı
09/10-11/09	101.02	11.09	89.94**	0.01	!	ı	I	1	ı	
02/23/10	101.02	9.44	91.58	0.00	1	1	1	ı	ı	ı
03/15/10	101.02	9.51	91.52**	0.01	1	ı	1	1	ŀ	
01/51/60	101.02	10.40	89.88	0.00	1	ı	ı	ı	ı	ı
12/04/10	101.02	10.49	90.53	0.00	ı	ı	1	ı	ı	ı
03/14/11	101.02	9.12	91.90	0.00	5050	ſ	1	ı	I	Ī
11/16/11	33.81	11.06	22.85	0.12	0.050	ı	1	}	E	
12/08/11	33.81	9.73	24.08	0.00	ı	E	1	I	ŀ	1
03/23/12	33.81	8.30	15.51	0.00	ī	ı		ī	ı	ı
06/01/12	33.81	8.05	25.76	0.00	ı	I	I	ı	1	ı
12/26/12	33.01	77.11	22.39	0.00	:	ı	:	:	:	:
12/20/12	33.61	6.00	24.92	0.00	:	ı	:		:	1
04/22/13	33.01	0.50	16.62	0.00	ı	ı	1	I	ı	ı
MW-8										
66/60/80	78.76	1	1	0.00	ı	186	15.4	39.0	1	9.23
10/20/99	78.76	13.06	84.81	0.00		31.4	2.47	2.97	1	0.356
01/06/00	97.87	ı	3	0.00	1	710	26.5	304	1	1
04/12/00	97.87	12.57	85.30	0.00	ı	28.2	1.72	4.16	1	1.88
06/27/00	97.87	12.61	85.26	0.00	1	29.5	1.47	3.09	1	<1.00
09/28/00	97.87	12.88	84.99	0.00	1	20.3	1.23	1.39	1	4
01/15/01	78.76	13.70	84.17	0.00	-	17.7	2.14	12.3	1	1
06/21/01	97.87	11.77	86.10	0.00	1	197	<10.0	26.7	1	<10.0
	78.76	12.18	85.69	0.00	1	157	7.03	42.5	ſ	98.9
07/28/01 (D)	18.16	12.18	85.69	0.00	1	147	7.07	42.2	ı	6.36
03/19/02 03/19/02	10.16	12.64	65.03	0.00	1	1,450	22.0	166	l	32.0
	7876	12.64	85 39	0.00	1	1,430	21.7	169	ľ	30.0
04/03/02 (D)	78.76	12.48	85.39	00.0		1.030	21.9	713	ľ	37.3
	78.76	11.86	86.01	0.00	ı	472	13.7	152	L 1	C:10
06/06/02	97.87	12.39	85.48	0.00	ı	476	14.1	79.8	ı	1
07/02/02	97.87	11.79	86.08	0.00	-	291	14.0	58.9	ī	E

Table 1
Groundwater Monitoring and Analytical Results
Former Chevron Bulk Plant #1001327
1602 North Northlake Place
Seattle, Washington

WELL ID DATE	TOC*	DTW (A)	GWE (ft)	LNAPLT (ft.)	LNAPL Removed (gallons)	B (µg/L)	T (µg/L)	E (ug/L)	X (ug/L)	Napthalene (µg/L)
Groundwater Cleanup Level						43	48,500	6,910	ı	9,880
MW-8 (cont)										
09/03/02	78.76	13.24	84.63	0.00	1	284	11.3	9.18	1	I
10/11/02	78.76	14.04	83.83	0.00	1	238	18	152.0	1	ı
12/31/02	78.76	13.69	84.18	0.00	1	165	16.3	261	ŀ	
12/31/02 (D)	78.76	13.69	84.18	0.00	1	192	16.1	141	ı	1
03/26/03	78.76	12.23	85.64	0.00	I	191	23.2	156	I	ı
04/28/03	78.76	12.87	85.00	00.00	ı	683	20.8	125	1	ı
05/30/03	78.76	11.80	86.07	0.00	1	467	15.4	75.4	ı	I
06/25/03	78.76	12.20	85.67	0.00	1	305	17.4	2.68	I	7.94
09/15/03	78.76	13.45	84.42	0.00	ı	159	36.1	634	1	168
DECOMMISSIONED DECEMBER 2003	2003									
MW-16										
03/21/07	1	14.49	f	0.00	ı	<0.500	<0.500	<0.500	Į	<5.00
03/25/08	J	15.25	1	0.00	ī	1	1	1	I	1
80/60-80/60	1	18.51	1	0.00	1	1	1	1	1	1
12/11/08	1	MONITORED SE	MONITORED SEMI-ANNUALLY		1	1	1	:	1	1
03/30-31/09	1	16.11	1	0.00	î	1	1	Î	1	1
ABANDONED										
MI I. 3										
08/20/86	65 46	ł	1	00 0	1	<1.00	<1.00	00.1	1	00.1>
10/20/99	97.92	13.58	84.34	0.00	1	<0.500	<0.500	<0.500	3	0.057
07/26/01	97.92	12.05	85.87	0.00	1	<1.00	<1.00	<1.00	1	<1.00
NOT MONITORED/SAMPLED										
TRIP BLANK										
66/60/80	ı	1	1	0.00		<1.00	<1.00	<1.00	ı	<1.00
08/10/99	1	1	1	0.00	1	<1.00	<1.00	<1.00	1	<1.00
08/11/99	I	1	1	0.00	1	<1.00	<1.00	<1.00	1	<1.00
10/20/99	ı	1	1	0.00	I	<0.500	<0.500	<0.500	1	ı
01/07/00	1	1	1	0.00	1	<0.500	<0.500	<0.500	1	I.
04/13/00	E	l	1	0.00	ı	ĥ	E	ŀ	L	E
04/13/00	E	ı	1	0.00	ı	ī	ı	1	ľ	ı
04/13/00	E	1	i	0.00	1	ı	L	II.	ı	E
04/13/00	F	I	The state of the s	0.00	ı	ľ	ı	ı	I	I
04/13/00	ı	ľ	ı	0.00	I	:	I	I	ı	I
06/28/00	ı	1	1	0.00	1	ı	1	I	ī	I
09/29/00	Î	I	1	0.00	ţ	Ī	1	ı	ī	1
01/15/01	Ē	1	ī	0.00	<u>I</u>	ï	1	1	I	
06/21/01	ı	;	1	0.00	1	<1.00	<1.00	<1.00	;	<1.00
03/18/02	ı	I	ı	0.00	1	<1.00	<1.00	<1.00	ı	<1.00

Table 1
Groundwater Monitoring and Analytical Results
Former Chevron Bulk Plant #1001327
1602 North Northlake Place
Seattle, Washington

Groundwater Cleanup Level	(3)	(0)	(4)	19)	The state of the s	, ,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, ,	, ,	100
TRIP BLANK (cont)		(10)	(JE)	OE)	(gamons)	(1/8/17)	(7/8/)	(1/8/17)	(1/8/1)	(Hg/L)
TRIP BLANK (cont)						43	48.500	6,910	1	9,880
TRIP BLANK (cont)										
03/19/02	,	ı	1	0.00	1	<1.00	<1.00	<1.00	ł	<1.00
04/03/02	ł	1	ı	0.00	1	<1.00	<1.00	<1.00	I	<1.00
09/03/02	1	I	ı	0.00	ſ	<0.500	<0.500	1.09	ŀ	į
12/31/02	ł	ſ	ı	0.00	E	<0.500	<0.500	<0.500	ł	ŀ
06/26/03	I	f	Đ	0.00	£	<0.500	<0.500	<0.500	ŀ	ı
09/15/03	I)	Ì	ľ	0.00	£	<0.500	<0.500	<0.500	I	<1.00
12/15/03	t	Ī	t	0.00	I	<0.500	<0.500	<0.500	E	<1.00
03/25/04	ŀ	Ī	E	0.00	I	<0.500	<0.500	<0.500	1	<1.00
09/23/04	1	1	E	0.00	E	<0.500	<0.500	<0.500	Ł	<1.00
03/14/05	1	Ē	ľ	0.00	E	<0.500	<0.500	<0.500	ľ	<1.00
03/29/06	ı	1	ı	0.00	ı	<0.500	<0.500	<0.500	ı	<1.00
03/21/07	į	1	1	0.00	ı	<0.500	<0.500	<0.500	ľ	<5.00
03/25/08	ì	Ī	I	0.00	ı	<0.5	<0.5	<0.5	ı	<1.0
FIELD BLANK										
08/20/99	ı	ī	i	0.00	ı	<1.00	<1.00	<1.00	1	<1.00
10/20/99	1	1	1	0.00	1	1	1	:	1	1
10/20/99	1	1	1	0.00	ī	1	1	1	1	1
10/20/99	1	1	3	0.00	1	1	1	1	1	1
10/22/99	1	1	3	0.00	1	ı	1	1.1	1	1
10/22/99	1	1	3	0.00	3	<0.500	<0.500	<0.500	;	1
10/25/99	1	1	1	0.00	3	1	1	3	3	:
10/25/99	3	1	1	0.00	ij	1	1	3	1	1
10/26/99	3	1	1	0.00	1	1	1	;	1	1
10/26/99	3	1	3	0.00	1	1	1	1	1	ı
06/21/01	1	1	1	0.00	1	<1.00	<1.00	2.49	1	1.88
06/27/01	1	ŀ	1	0.00	1	<1.00	<1.00	1.79	1	<1.00
07/26/01	1	i	1	0.00	1	1.22	<1.00	4.26	:	<1.00
03/19/02	1	ŀ	1	0.00	1	<1.00	<1.00	<1.00	1	<1.00
09/03/02	1	1	1	0.00	1	0.857	<0.500	3.84	ı	:
12/31/02	1	1	1	0.00	1	<0.500	<0.500	<0.500	1	ł
09/17/03	1	1	1	0.00	1	<0.500	<0.500	<0.500	ı	<1.00
12/17/03	1	1	1	0.00	1	<0.500	<0.500	<0.500	I	<1.00
03/26/04	E	1	ı	0.00	ı	<:0.500	<0.500	<0.500	ľ	<1.00
09/23/04	E	E	ſ	0.00	ı	<0.500	<0.500	<0.500	1	<1.00
03/14/05	Ī	100	I	0.00	1	<0.500	<0.500	<0.500	1	<1.00

Table 1
Groundwater Monitoring and Analytical Results
Former Chevron Bulk Plant #1001327
1602 North Northlake Place
Seattle, Washington

WELL ID DATE	TOC* (ft.)	DTW (ft.)	GWE (ft.)	LNAPLT (ft.)	LNAPL Remover (gallons)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	Napthalene (µg/L)
Groundwater Cleanup Level						£#	48,500	016'9	1	9.880
FIELD BLANK (cont)										
03/29/06	1	I	ĺ	0.00	ı	<0.500	<0.500	<0.500	1	<1.00
03/21/07	1	I	I	0.00	I.	<0.500	<0.500	<0.500	1	<5.00
03/25/08	I	E	ĺ	0.00	I	<0.5	<0.5	<0.5	ı	<1.0
80/60-80/60	ı	1	ł	0.00	1	<0.5	<0.5	<0.5	<1.5	1
QA										
03/30-31/09	1	1	1	0.00	1	<0.5	<0.5	<0.5	<1.5	1
09/10-11/09	ı	ı	I	0.00	1	<0.5	<0.5	<0.5	<1.5	T
03/15/10	ı	ł	ı	0.00	1	<0.5	<0.5	<0.5	<1.5	1
09/15/10	ı	ŀ	ı	0.00	1	<0.5	<0.5	<0.5	<1.5	1
09/24/11	1	1	ŀ	0.00	ı	<0.2	<0.2	<0.2	<0.6	ì
11/16/11	Ì	I	1	0.00	1	<0.2	<0.2	<0.2	9.0≻	1

## Table 1

# Groundwater Monitoring and Analytical Results Former Chevron Bulk Plant #1001327 1602 North Northlake Place Seattle, Washington

# EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to 2010 were compiled from reports prepared by SAIC.

NP = No Purge	$(\mu g/L) = Micrograms per liter$	QA = Quality Assurance/Trip Blank	(D) = Duplicate	ND = Non-detect
T = Toluene	E = Ethylbenzene	X = Xylenes	= Not Measured/Not Analyzed	LNAPLT - Light Non-Aqueous Phase Liquid Thickness
TOC = Top of Casing elevation	DTW = Depth to Water	(ft.) = Feet	GWE = Groundwater Elevation	B = Benzene

# ANALYTICAL METHOD:

BTEX and Napthalene analyzed by EPA method 8021B

Bolded and shaded values exceed Model Toxics Control Act (MTCA) Method B Surface Water Cleanup Levels (CULs)

TOC elevations from wells were surveyed by OTAK on April 6, 25 and May 11, 2011. Survey data provided by ARCADIS

- \*\* Groundwater elevation corrected for the presence of LNAPL using a specific gravity of 0.80; Correction factor: [(TOC-DTW)+(LNAPLT x 0.80)].
- Absorbant sock in well.
- Laboratory report indicates due to the presence of an interferent near its retention time, the normal reporting limit was not attained for toluene. The presence or concentration of this compound cannot be determined due to the presence of this interferent.
  - Laboratory report indicates the reporting limit for Naphthalene was raised due to the detection in the associated method blank
- Laboratory report indicates the reporting limit for Naphthalene was raised to 5 µg/L due to the detection in the associated method blank.
- Product + water removed.
- Laboratory report indicates concentration exceeds the instrument calibration range.
  - Laboratory report indicates estimated value.
- Laboratory report indicates due to the presence of interferents near their retention time, normal reporting limits were not attained for benzene and toluene. The presence or concentrations of these compounds cannot be determined below the reporting limits due to the presence of these interferents.
- No purge due to bent casing.
- Laboratory report indicates due to the presence of an interferent near its retention time, the normal reporting limit was not attained for naphthalene.. The presence or concentration of this compound cannot be determined due to the presence of this interferent.
  - Laboratory report indicates the reporting limits were raised because sample dilution was necessary to bring internal standard within QC limits.
- 12 Product only removed
- Sheen in water.

WELL ID/	TOC	Depth To Product	DTW	GWE	LNAPLT	LNAPI, Removed
DATE	(ft.)	(ft.)	(#)	(A)	(#)	(gallons)
MW-3		•				
08/11/99	104.07		I	1	Ū	ı
10/22/99	104.07	1	1	1	1	1
05/24/01	104.07	66.6	10.25	94.03	0.26	1
06/27/01	104.07	ľ	ı	I	I	I
03/18/02	104.07	8.59	9.28	95.34	69.0	ţ
12/31/02	104.07	1	1	1	ı	1
03/26/03	104.07	ı	7.02	97.05	0.00	1
06/26/03	104.07	10.49	11.49	93.38	1.00	2.75
07/21/03	104.07	1	1	1	1	2.50
08/28/03	104.07	ı	1	1	ı	3.00
10/16/03	104.07	11.55	13.89	92.05	2.34	1.75
11/21/03	104.07	1	1	1	ı	3.50
12/17/03	104.07	10.27	11.02	93.65	0.75	2.00
01/29/04	104.07	9.82	10.59	94.10	0.77	1.75
02/18/04	104.07	77.6	10.32	94.19	0.55	0.75
03/30/04	104.07	9.28	9.93	94.66	0.65	0.75
09/22/04	104.07	10.61	11.35	93.31	0.74	1.50
03/15/05	104.07	10.82	12.98	92.82	2.16	3.00
9/28/05*	104.07	l	11.25	1	<3.0	3.50
03/29/06	104.07	8.76	12.40	94.58	3.64	6.50
03/21/07	104.07	9.13	10.67	94.63	1.54	2.00
03/25/08	104.07	9.73	10.38	94.21	0.65	1.00
80/60-80/60	104.07	10.55	11.02	93.43	0.47	1.50
12/11/08 .	104.07	10.79	12.10	93.02	1.31	2.50
03/30-31/09	104.07	1	9.70	94.37	0.00	0.00
06/15/09	104.07	9.79	10.97	94.04	1.18	$2.50^{1}$
09/10-11/09	104.07	10.94	12.21	92.88	1.27	$1.66^{1}$
02/23/10	104.07	8.75	11.25	94.82	2.50	1.75
03/15/10	104.07	8.60	11.25	94.94	2.65	$2.50^{2}$
03/23/12	104.07	11.90		92.15	0.10	0.50
06/01/12			INACCESSIBLE			
04/22/13			INACCESSIBLE			
WW-9						⊕,
08/11/99	103.67	1	1		ı	į
10/21/99	103.67	1	1		1	1
05/24/01	103.67	14.02	14 07	1	0.05	
06/21/01	103.67	13.74	13.78	89.92	0.04	

WELL ID/	TOC	Denth To Product	DTW	CWF	INAPLT	I NAPI Domograd
The state of the s	301	מבלווו נסיווסמונו	,			Day of President
DATE	(#)	(#)	(ft.)	(ft.)	(ft.)	(gallons)
MW-9 (cont)				103.67		
06/27/01	103.67	1	13.79	88.88	0.00	Ī
03/18/02	103.67	12.82	13.51	90.71	69.0	1
10/16/02	103.67	1	1	1	0.54	1
11/11/02	103.67	Ī	1	ľ	0.90	1
12/31/02	103.67	1	1	1	0.91	L
02/27/03	103.67	1	1	1	0.02	ı
03/26/03	103.67	Ĩ	I	ī	60.0	ı
04/28/03	103.67	13.18	13.25	90.48	0.07	ı
05/30/03	103.67	13.43	13.52	90.22	60.0	1
06/26/03	103.67	13.86	13.90	08.68	0.04	0.10
07/21/03	103.67	ï	I		0.21	2.00
08/28/03	103.67	1	Ī	ſ,	0.23	0.75
10/16/03	103.67	15.41	15.98	88.15	0.57	2.00
11/21/03	103.67	1	1	Î	0.01	0.25
12/17/03	103.67	1	Ī	1	0.00	0.00
01/29/04	103.67	14.13	14.16	89.53	0.03	0.10
02/18/04	103.67	10.94	11.11	92.70	0.17	0.25
03/30/04	103.67	13.69	13.80	96.68	0.11	0.25
09/22/04	103.67	9.49	9.52	94.17	0.03	0.25
03/15/05	103.67	14.52	14.81	60.68	0.29	0.25
09/28/05	103.67	15.06	15.31	88.56	0.25	<0.01
03/29/06	103.67	13.00	13.26	90.62	0.26	<0.5
03/21/07	103.67	13.41	13.73	90.20	0.32	0.19
03/25/08	103.67	1	13.93	89.74	0.00	<0.25
80/60-80/60	103.67	14.22	14.23	89.45	0.01	0.00
12/11/08	103.67	15.11	15.16	88.55	0.05	0.02
03/30-31/09	103.67	ť	14.06	89.61	0.00	0.00
06/15/09	103.67	1	13.32	90.35	0.00	0.00
09/10-11/09	103.67	I	14.80	88.87	0.00	0.00
02/23/10	103.67	12.80	13.10	90.81	0.30	0.21
03/15/10	103.67	13.10	13.33	90.52	0.23	$0.18^{1}$
3/14/20111	103.67	ı	12.71	90.06	0.00	1
9/24/2011	36.46	1	14.62	21.84	0.00	1
12/08/2011	36.46	ſ	12.87	23.59	0.00	1
03/23/12	36.46	10.35	10.55	26.07	0.20	0.50
06/01/12	36.46	11.55	11.75	24.87	0.20	1.00
04/22/13	36.46	10.40	11.07	25.93	29.0	1

WELL ID/	T0C	Depth To Product	DTW	GWF	LNAPLT	I.NAPI. Removed
DATE	(#)	(ft.)	(A.)	(A.)		(gallons)
MW-10			8.5			
08/11/99	100.30	ı	1	Ü	ı	ŀ
10/21/99	100.30	Î	1	1	1	ſ
04/12/00	100.30	Ī	7.34	92.96	0.00	1
06/27/00	100.30	Ü	8.95	91.35	0.00	ı
09/28/00	100.30	1	10.08	90.22	0.00	1
01/15/01	100.30	I	10.16	90.14	0.00	1
01/15/01	100.30	1	10.16	90.14	0.00	I
05/24/01	100.30	Ī	9.14	91.16	0.00	I
06/21/01	100.30	1	7.97	92.33	0.00	1
06/27/01	100.30	Ī	9.07	91.23	0.00	1
06/27/01	100.30	Ī	9.07	91.23	0.00	ī
03/18/02	100.30	I	7.09	93.21	0.00	Ī
07/02/02	100.30	1	8.37	91.93	0.00	ı
12/31/02	100.30	ı	1	ì	96.0	Ī
02/27/03	100.30	1	Ī	Ī	0.17	ı
03/26/03	100.30	T.	Ī	I	0.04	ı
04/28/03	100.30	1	8.80	91.50	0.00	Ē
05/30/03	100.30	1	8.76	91.54	0.00	1
06/26/03	100.30	8.69	8.99	91.55	0.30	00.9
07/21/03	100.30	1	i	ř	0.06	1.00
08/28/03	100.30	3	1	1	0.14	00.9
10/16/03	100.30	10.54	11.56	89.56	1.02	18.50
11/21/03	100.30	l	L	1	1.33	7.00
12/17/03	100.30	1	J	1	0.15	0.75
01/29/04	100.30	8.61	8.61	91.69	0.00	1
02/18/04	100.30	8.58	8.72	91.69	0.14	0.25
03/30/04	100.30	8.41	8.47	91.88	90.0	0.25
09/22/04	100.30	9.56	9.64	90.72	0.08	0.50
03/15/05	100.30	9.83	10.20	90.40	0.37	0.25
10/04/05	100.30	10.39	11.20	89.75	0.81	1.75
03/29/06	100.30	7.63	8.35	92.53	0.72	2.00
03/21/07	100.30	7.49	7.95	92.72	0.46	0.44
03/25/08	100.30	8.68	89.8	91.62	0.00	0.00
80/60-80/60	100.30	9.34	9.39	90.95	0.05	0.20
12/11/08	100.30	9.59	06.6	59.06	0.31	1.00

	8					
WELL ID/	T0C	Depth To Product	DIW	GWE	LNAPLT	LNAPL Removed
DATE	(ft.)	(#)	(ft.)	(ft.)	(ft.)	(gallons)
MW-10 (cont)						=
03/30-31/09	100.30	8.20	8.44	92.05	0.24	$1.11^{1}$
06/15/09	100.30	8.10	8.31	92.16	0.21	$0.34^{1}$
09/10-11/09	100.30	10.12	10.14	90.18	0.02	0.00
02/23/10	100.30	7.13	7.14	93.17	0.01	0.00
03/15/10	100.30	Ĺ	7.24	93.06	0.00	0.00
MW-12						
08/11/99	100.11	1	I	1	1	1
10/21/99	100.11	1	1	ì	ā	1
05/24/01	100.11	ì	8.30	91.81	0.00	1
06/21/01	100.11	Ē	1	1	ı	1
06/27/01	100.11	00.6	9.01	91.11	0.01	1
03/18/02	100.11	7.87	7.91	92.23	0.04	ł
12/31/02	100.11	ı	1	Ī	0.02	ı
04/28/03	100.11	7.27	7.36	92.82	60'0	Î
05/30/03	100.11	7.37	7.42	92.73	0.05	1
06/26/03	100.11	Sheen	8.32	91.79	Sheen	0.10
07/21/03	100.11	1	1	I	0.01	0.50
08/28/03	100.11	t	U	I	0.03	0.75
10/16/03	100.11	9.36	9.48	90.73	0.12	0.75
11/21/03	100.11	I	1	1	0.00	0.00
12/17/03	100.11	I	L	I	0.00	0.00
01/29/04	100.11	8.44	8.44	91.67	0.00	0.00
02/18/04	100.11	7.54	7.54	92.57	0.00	0.00
03/30/04	100.11	7.84	7.84	92.27	0.00	0.00
09/22/04	100.11	8.65	8.69	91.45	0.04	0.25
03/15/05	100.11	8.78	8.79	91.33	0.01	0.00
10/04/05	100.11	13.65	13.67	86.46	0.02	<0.01
03/29/06	100.11	7.51	7.51	92.60	0.00	0.00
03/21/07	100.11	7.32	7.32	92.79	0.00	0.00
03/25/08	100.11	1	8.09	92.02	0.00	0.00
80/60-80/60	100.11	Ī	8.65	91.46	0.00	0.00
12/11/08	100.11	8.61	8.62	91.50	0.01	0.00
03/30-31/09	100.11	7.53	7.54	92.58	0.01	0.00
06/15/09	100.11	1	7.92	92.19	0.00	0.00

			K			
WELL ID/	T0C	Depth To Product	DTW	GWE	LNAPLT	LNAPL Removed
DATE	(At.)	(4.)	(41)	(A)	(ft.)	(gallons)
MW-12 (cont)						
09/10-11/09	100.11	9.22	9.23	68.06	0.01	0.00
02/23/10	100.11	1	06.90	93.21	0.00	0.00
03/15/10	100.11		7.23	92.88	0.00	0.00
MW-27			æ			
09/13/99	101.17	Ì	I	3	ī	ı
10/22/99	101.17	Ī	1	I	ı	I
01/06/00	101.17	Ĭ	Ī	E	ı	I
05/24/01	101.17	10.38	11.11	90.64	0.73	1
06/27/01	101.17	9.29	10.07	91.72	0.78	ï
03/18/02	101.17	9.00	9.07	92.16	0.07	ſ
10/16/02	101.17	1	1	1	0.05	1
12/31/02	101.17	1	1	1	0.02	1
06/26/03	101.17	10.83	11.08	90.29	0.25	0.25
07/21/03	101.17	I	Ī	Ī	0.46	4.00
08/28/03	101.17	1	I	1	0.21	8.00
10/16/03	101.17	1	5.97	95.20	0.00	0.00
11/21/03	101.17	1	ì	Ī		0.00
12/17/03	101.17	1	Ī	Ĩ	ı	0.00
01/29/04	101.17	9.71	10.23	91.36	0.52	2.00
02/18/04	101.17	9.97	10.59	91.08	0.62	1.75
03/30/04	101.17	77.6	10.54	91.25	0.77	3.00
09/22/04	101.17	9.91	86.6	91.25	0.07	0.70
03/15/05	101.17	11.21	11.76	89.85	0.55	0.50
03/29/06	101.17	1	9.14	92.03	0.00	0.00
03/21/07	101.17	7.90	7.91	93.27	0.01	<0.01
03/25/08	101.17	1	10.57	09.06	0.00	0.00
80/60-80/60	101.17	10.66	10.83	90.48	0.17	0.28
12/11/08	101.17	11.18	11.19	66.68	0.01	0.00
03/30-31/09	101.17	9.91	9.92	91.26	0.01	0.00
06/15/09	101.17	99.6	6.67	91.51	0.01	0.00
09/10-11/09	101.17	11.10	11.27	90.04	0.17	$0.33^{1}$
02/23/10	101.17	I	9.37	91.80	0.00	0.00
03/15/10	101.17	9.47	9.48	91.70	0.01	0.00
3/14/2011'	101.17	27.70	27.77	73.46	0.07	$0.050^{5}$
11/16/11	34.01	I	11.27	22.74	0.00	I
12/08/11	34.01	69.6	9.78	24.30	60.0	$0.050^{1}$
03/23/12	34.01	8.15	8.18	25.85	0.03	1.00

Northlake Place	Washington
2 North	Seattle

WELL ID/	TOC	Depth To Product	DTW	GWE	7.	LNAPL Removed
DATE	(ft.)	(ft.)	(A)	(ft.)	(AL)	(gallons)
MW-27 (cont)						
06/01/12	34.01	8.25	8.45	25.72	0.20	1.00
04/22/13	34.01	7.33	7.34	26.68	0.01	:
00 22328						
M.~28						
03/21/07	100.35	6.48	98.9	-6.56	0.38	0.25
03/25/08	100.35	7.08	7.25	-7.11	0.17	0.25
80/60-80/60	100.35	8.00	8.04	92.34	0.04	0.16
12/11/08	100.35	8.14	8.15	92.21	0.01	0.00
03/30-31/09	100.35	6.83	6.84	93.52	0.01	0.00
06/15/09	100.35	7.20	7.21	93.15	0.01	0.00
09/10-11/09	100.35	8.13	8.16	92.21	0.03	0.00
02/23/10	100.35	6.38	6.39	93.97	0.01	0.00
03/15/10	100.35	1	6.05	94.30	0.00	0.00
03/14/11	100.35	1	5.3	95.05	0.00	0.00
SMPN-1						
03/15/05	1	Sheen	11.23	1	Sheen	0.00
10/04/05	ı	11.72	11.96	1	0.24	<1/16
03/29/06	ı	I	9.84	I	0.00	0.00
03/21/07	1	ı	68.6	1	0.00	0.00
03/25/08		1	10.36	1	0.00	0.00
80/60-80/60	100.99	10.67	10.68	90.32	0.01	0.00
12/11/08	100.99	1	11.30	69.68	0.00	0.00
03/30-31/09	100.99	10.30	10.31	69.06	0.01	0.00
06/15/09	100.99	9.72	9.73	91.27	0.01	0.00
09/10-11/09	100.99	1,	11.13	98.68	0.00	0.00
02/23/10	100.99	1	98.6	91.13	0.00	0.00
03/15/10	100.99	1	9.83	91.17	0.01	0.00
11/16/11	33.78	1	11.27	22.51	0.00	1
12/08/11	33.78	9.78	9.79	24.00	0.01	$0.050^{1}$
03/23/12	33.78	8.25	8.27	25.53	0.02	0.50
6/1/2012	33.78	1	8.85	24.93	0.00	0.00
4/22/2013	33.78	1	8.75	25.03	0.00	0.00
SMPN-2						
03/15/05	ı	11.20	11.21	,	0.01	00 0
03/29/06	1	ı	9.48		000	0.00
03/21/07		0.15	0.00		00:00	0.00
03/25/08	ı	5.1.5	9.20	I	0.05	<0.05
00/08 00/08	1 -0	1	10.11		0.00	0.00
09/08-09/08	101.24	10.50	10.51	90.74	0.01	0.00
SMPN-2 (cont)						

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WELL ID/	TOC	Depth To Product	DTW	GWE	LNAPLT LN	LNAPL Removed
DATE	(#)	(ft.)	(ft.)	(ft.)	(tt.)	(gallons)
12/11/08	101.24	11.05	11.06	90.19	0.01	0.00
03/30-31/09	101.24	10.11	10.12	91.13	0.01	0.00
06/15/09	101.24	9.50	9.51	91.74	0.01	0.00
09/10-11/09	101.24	10.98	10.99	90.26	0.01	0.00
02/23/10	101.24	10.98	9.23	92.01	0.00	0.00
03/15/10	101.24	9.36	9.37	91.88	0.01	0.00
03/14/11	101.24	1	8.93	92.31	. 00.0	1
11/16/11	33.85	96.6	76.6	23.89	0.01	$0.050^{1}$
12/08/11	33.85	1	9.61	24.24	0.00	1
03/23/12	33.85	8.10	8.12	25.75	0.02	0.50
6/1/2012	33.85	8.30	8.40	25.53	0.10	1.00
4/22/2013	33.85	1	7.88	25.97	ı	:
SMBN.3						
03/15/05	ı		11.46	1	0.00	0.00
03/29/06	9	1	9.56	1	0.00	0.00
03/21/07	1	1	9.03		0.00	0.00
03/25/08	1	ı	10.30	E	0.00	0.00
80/60-80/60	101.02	10.66	10.67	90.36	0.01	0.00
12/11/08	101.02	I	11.26	89.76	0.00	0.00
03/30-31/09	101.02	10.27	10.28	90.75	0.01	0.00
06/15/09	101.02	1	9.59	91.43	0.00	0.00
09/10-11/09	101.02	1	11.08	11.09	0.01	0.00
02/23/10	101.02	1	9.44	91.58	0.00	0.00
03/15/10	101.02	Ĭ	9.51	91.52	0.01	0.00
03/14/11	101.02	1	9.12	91.90	0.00	ı
11/16/11	33.81	10.94	11.06	22.85	0.12	$0.050^{1}$
12/08/11	33.81	1	9.73	24.08	0.00	1
03/23/12	33.81	Ī	8.30	25.51	0.00	1
06/01/12	33.81	Ĭ	8.05	25.76	0.00	ı
04/22/13	33.81	1	8.30	25.51		
		The West State and State				

## Table 2

## Light Non Aqueous Phase Liquid Thickness/Removal Data Former Chevron Bulk Plant #1001327 1602 North Northlake Place Seattle, Washington

Data prior to 2010, and the notes below, were provided by SAIC.

# **EXPLANATIONS:**

-- = Not Applicable or Not included in monitoring program

DTW = Depth to water

GWE = Groundwater elevation in feet (based on arbitrary benchmark @ 100 feet)

LNAPLT = Light Non Aqueous Phase Liquid Thickness

Groundwater Elevation calculated using the following formula to account for the effect of LNAPL. GWE = (Survey elevation - DTW)+(0.8 \* LNAPLT)

- \* Interface probe not recognizing LNAPL, bailer dropped in well, LNAPL thickness > 3 feet.
- LNAPL + water removed.
- LNAPL only removed

Table 3
Groundwater PAHs and Metals Analytical Results
Former Chevron Bulk Plant #1001327
1602 North Northlake Place
Scattle, Washington

Eg.Lead	S		4.39	1	E	E	E	ı		0.1>	ŀ	ľ	<1.0	<1.0	<1.0	1.4	<0.050	<0.050	< 0.050	<0.050	<0.052	0.00	1	1	I	I	<0.034	Ī	<0.050		4 64	10:1			1	1
əlnəzəA	0.0982		5.34	ı	1	E	E	ť		<1.0	Ē	ï	<1.0	<1.0	<1.0	<0.70	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95		•	:	1	<0.40	1	<0.40		3.71	1117	1		:	ı
ənəryq (bɔ-t.4,1) onəbnl	0.0296		<10.0	.00573	I	I	:	1		<5.00	<0.0100	<0.0100	<0.0100	<0.0119	< 0.00943	0.019	<0.011	<0.0098	<0.0098	910.0	0.43	<0.012	<0.010	0.013	<0.010	<0.0099	<0.0099	<0.010	<0.010		25 00	0.0	00100		l	1
д Ві Dibenz (я,в.) янійгасеве В	0.0296		<10.0	.00633	Ī	ſ	:	I°		<5.00	<0.0100	<0.0100	<0.0100	<0.0119	<0.00943	<0.0099	<0.011	<0.0098	<0.0098	<0.0099	0.065	<0.012	<0.010	<0.010	<0.010	<0.0099	<0.0099	<0.010	<0.010		Q2 00	0.000	<0.0100		ı	1
E (pràseus E	0.0296		<10.0	.00283	1	1	ŧ.	E		<5.00	<0.0100	<0.0100	<0.0100	0.0131	<0.00943	0.028	0.13	<0.0098	0.012	0.048	0.53	<0.012	<0.010	0.035	<0.010	<0.0099	<0.0099	<0.010	<0.010		<5.00	0.00613	<0.0100		1	!
Benzo (k) Auoranthene	0.0296		<10.0	.00343	ī	Ē	1	ı		<5.00	<0.0100	<0.0100	<0.0100	<0.0119	< 0.00943	0.014	0.079	<0.0098	<0.0098	0.027	0.43	<0.012	<0.010	0.018	<0.010	<0.0099	<0.0099	<0.010	<0.010		O0 \$>	0.00	(02-0) 006 0	(22 %) 22 (22	!	!
E Benzo (b) Auoranthene	0.0296		<10.0		<b>1</b>	<b>21</b>	. 1	E		<5.00	<0.0100	< 0.0100	<:0.0100	<0.0119	<0.00943	0.031	0.14	<0.0098	0.014	690.0	0.43	0.012	<0.010	0.039	<0.010	<0.0099	<0.0099	<0.010	<0.010		<500	0.00433	00100			
Penzo (v) dàtene	0,0296		<10.0	.0008³	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL	1		<5.00	<0.0100	<0.0100	<0.0100	<0.0119	<0.00943	0.025	0.15	<0.0098	0.013	0.052	89.0	<0.012	<0.010	0.037	<0.010	<0.0099	<0.0099	<0.010	<0.010		00 S>	0.0038	00100>			
я Вепхо (я) апійнасепе	0.0296		<10.0	.0044³	VOT SAMPLED DUE TO	NOT SAMPLED DUE TO	NOT SAMPLED DUE TO	INACCESSIBLE		<5.00	<0.0100	0.0241	<0.0100	0.0137	<0.00943	0.030	0.15	<0.0098	0.012	0.041	0.48	< 0.012	<0.010	0.032	<0.010	<0.0099	<0.0099	<0.010	<0.010		~\$ 00	0.00283	00700>	INABLETOLOCATE	UNABLE TO LOCATE	MABLE 10 DOCUME
WELL ID/ DATE	ndwater Cleanup	MW-3	08/11/99		03/29/06 N			09/15/10 II	May 4	66/10/80	06/25/03	09/16/03	12/15/03	03/25/04	03/21/07	03/25/08	80/60-80/60	03/30-31/09	60/11-01/60	03/12/10	01/21/60	9/25/20115	10/10/11	06/21/12	06/21/12 (F		09/26/12 (F	04/22/13	04/22/13 (F	MW 7	08/10/66	10/20/99	16/25/03			

Table 3
Groundwater PAHs and Metals Analytical Results
Former Chevron Bulk Plant #1001327
1602 North Northlake Place
Seattle, Washington

bes-1 gg	5		ī	1	<u>-</u> : :	1.7		ı	1.6	I	0.85		1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.0	<0.050	0.030	0.062	<0.052	<0.080	ı	ı	ſ	1 0	C1:0	<0.047		<1.0	0.94	<1.0 ✓I.0	I	1	0.58
oinozzi (28)	0.0982		ī	T g	1.5	2.5	: :	Î	6.1		5.3	3	1	2.49	1.2	1.11	5.2	<1.0	<1.0	0.92	1.1	<0.95	<0.95	2.8	66'0	1	t	ŀ	10	<b>?</b> 1	<0.40		4.33	17	12.9	1	:	9.5
ənətyq (bɔ-ɛ,2,1) onəbni	0.0296		1	ı	0.041	0.39	<0.0098	<0.0099	<0.0098	0.016	<0.010		1	0.0419	<0.01	0.0937	0.0137	<0.00952	<0.00943	<0.0096	0.021	0.022	0.040	<0.0098	0.02	<0.0095	<0.0095	<0.010	0.010	<0.010	<0.010		<5.00	<0.0083	<0.5	I	ı	<0.10
EDibenz (a,h) anthracene	0.0296		1	1	0.013*	0.073	<0.0098	<0.000	<0.0098	0.012	<0.010		1	0.0274	<0.01	0.0656	<0.01	<0.00952	<0.00943	9600.0>	660000	<0.0098	0.011	<0.0098	<0.0095	<0.0095	<0.0095	<0.010	0.010	<0.010	<0.010		<5.00	<0.0083³	<0.5	I	:	-:0.10 <sup>1</sup>
(C. Chrysene	0.0296		1		0.18	0.38	<0.0090	6600'0>	<0.0098	<0.010	<0.010		3	0.0568	0.0315	0.104	0.0164	<0.00952	<0.00943	<0.0096	0.028	0.021	0.079	<0.0098	0.028	<0.0095	<0.0095	<0.010	0.010	<0.010	<0.010		<5.00	<0.0083	<0.5	1	1	 -0.10
Benzo (k) fluoranthene	0.0296		I	1	0.16	0.36	<0.0096	<0.0099	8600.0>	<0.010	<0.010		J	0.0531	<0.01	0.120	0.0209	<0.00952	<0.00943	<0.0096	600000	0.011	0.099	<0.0098	0.011	<0.0095	<0.0095	0.010	0.010	0.010	<0.010		<5.00	<0.0083	<0.5	I	I	 <0.10¹
E Benzo (b) fluoranthene	0.0296		1	1	0.21	0.42	<0.0096	<0.0099	<0.0098	0.011	<0.010		1	0.0299	<0.01	0.0980	0.0123	0.0281	<0.00943	0.010	0.031	0.035	0.14	<0.0098	0.029	<0.0095	<0.0095	0.010	0.010	<0.010	<0.010		<5.00	<0.0083	<0.5	7 :	7 1	.t. <0.10¹
Benzo (a) pyrene	0.0296		4		0.12*	0.5	<0.0096	600.0>	<0.0098	<0.010	<0.010		3	0.0454	0.0220	0.102	0.0135	<0.00952	<0.00943	<0.0096	0.018	0.017	0.062	<0.0098	0.02	<0.0095	<0.0095	<0.010	0.010	<0.010	<0.010		<5.00	<0.0083	<0.5		HE PRESENCE OF LNAPL	
(E) Benzo (a) anthracene	0.0296		UNABLE TO LOCATE	UNABLE TO LOCATE	0.14	0.3	0.011	600.0>	8600.0>	0.019	<0.010		1	0.0650	<0.01	0.110	0.0234	<0.00952	<0.00943	>0.0096	0.017	0.012	0.036	<0.0098	0.016	<0.0095	<0.0095	0.010	0.010	<0.010	<0.010		<5.00	<0.0083	<0.5	NOT SAMPLED DUE TO THE PRESENCE	NOT SAMPLED DUE TO THE PRESENCE	<0.10¹
WELL ID/ DATE	ndwater Cleanup	t)		60/	03/15/10	09/15/10	06/21/12 06/21/12 (F		09/20/12 (F	04/22/13	04/22/13 (F	MW-8A	12/15/03	03/25/04	09/23/04	09/23/04 D	03/14/05	03/29/06	03/21/07	03/25/08	09/08-09/08	60/10-11/60	03/15/10	01/21/60		06/21/12 D		00/21/12 (F	09/21/12 (F		04/23/13 (F	9-WW	66/11/80	10/21/99			03/25/0/ NC	80/

Table 3
Groundwater PAHs and Metals Analytical Results
Former Chevron Bulk Plant #1001327
1602 North Northlake Place
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brad 2 C	5		.33	1.1		1		4.21	:	-	2	77		ï	i	1	ř	ı	6.0	9.3		0.1		9			0.1		<1.0
, in			0					4			21	3.3							Ξ	6		V					V	V	V
oinoex4	0.0982		7.7	8.0	1	:		<1.0	1	ı	8.61	3.39	ı	ı	ı	ı	L	I	3.8	4.9		2.03	1	3	3	1	3.72	3.06	19.4
ananyg (bo-E.S.1) onabnl gg	0.0296		<:0.0098	<0.0981	1	I		<5.00	<0.008³	<10.0	1	£	1	I.	E	f	ı	1	<0.0099²	<0.09		<5.00	<0.00813	3	1	;	0.0857	<0.0100	<0.00971
ənəəritina (il.e) znədiC	0.0296		<0.0098	-0.0981		1		<5.00	<0.008³	<10.0	ı	ı	1	ı	L	I	ı	1	<0.00992	<0.09		<5.00	<0.0081 <sup>3</sup>	3	3	1	0.0878	<0.0100	<0.00971
(hrysene	0.0296		<0.0098	0.56	1	1		<5.00	0.00333	<10.0	I	:	ı	I	E		ſ	ı	$0.18^{2}$	1.2		<5.00	<0.0081	ā	1	:	<0.0100	<0.0100	<0.00971
Benzo (k) Auoranthene	0.0296		<0.0098	0.10	:	ī		<5.00	<0.008	<10.0	1		I.		1		l	:	$0.059^{2}$	<0.096		<5.00	<0.0081	3	I	1	0.0341	<0.0100	<0.00971
Е Велхо (b) Япотавићеве	0.0296		0.025	0.41	\PL	NPL		<5.00	<0.008	<10.0	Ī		\PL	\PL	\PL	\PL	\PL		$0.046^{2}$	0.3		<5.00	<0.0081	1	1	:	0.0632	<0.0100	<0.00971
Benzo (a) pyrene	0,0296		<0.0098	<0.0981	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL		<5.00	<0.00	<10.0	1	I	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL	$0.054^{2}$	0.17		<5.00	<0.0081	3	1	1	<0.0100	<0.0100	<0.00971
эпээжийна (в) охиэд 🥞	0.0296		<0.0098	0.15	NOT SAMPLED DUE T	NOT SAMPLED DUE T		<5.00	<0.008	<10.0	1	1	NOT SAMPLED DUE T	NOT SAMPLED DUE T.	$0.10^{2}$	0.52		<5.00	<0.0081	1	31	1	0.0734	<0.0100	<0.00971				
WELL ID/ DATE	ndwater Cleanup	MW-9 (cont)	03/30-31/09	00/11-01/60	03/15/10	09/15/10	MW-10	08/11/80	10/21/99	04/12/00	06/27/00	09/28/00	03/29/06	03/21/07	03/25/08	80/60-80/60	03/30-31/09	09/10-11/09	03/15/10	09/15/10	MW-11	08/11/99	10/22/99	06/21/01	03/18/02	09/16/03	12/15/03	03/25/04	03/21/07

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Former Chevron Bulk Plant #1001327
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	desirate #																						
bes-1 28 (1)	5		1.1	1.4	<0.050	<0.050	<0.050	<0.050	<0.052		17.6	ŀ	ul.	1	,	1.8	2.8	1.6	3.4	2.2	*	<1.0	1
ojnasti (2,83) (1,93)	0.0982		19.0	16.9	16.5	19.2	29.7	13.4	16.6		7.01	1	I	1	;	6.4	4.8	5.5	4.6	6.4		2.1	1
anaryg (bo-E,L,L) onabni (5)	0.0296		<0.010	<0.0096	<0.011	<0.0098	0.019	<0.0099	0.018		<10.0	<0.0083	1	ı	;	<0.0099²	<0.0098	<0.097	<0.010²	0.014 <sup>2</sup>		<5.00	<0.0081
ənəəridink (d,k) xnədi(( j)	0.0296		<0.010	<0.0096	<0.011	<0.0098	<0.0098	<:0.0099	<0.010		<10.0	<0.0083³	1	1	1	<0.0099²	<0.0098	<0.0971	<0.010²	<0.0096²		<5.00	<0.0081
эпэхлц (Тайг) Тай	0.0296		<0.010	0.013	0.012	<0.0098	0.036	0.013	0.02		<10.0	<0.0083	T		:	$0.039^{2}$	0.028	0.22	$0.045^{2}$	$0.18^{2}$		<5.00	<0.0081
E Benzo (k) Auoranthene	0.0296		<0.010	<0.0096	<0.011	<0.0098	0.016	0.010	0.012		<10.0	<0.0083	ı	1	1	<0.0099 <sup>2</sup>	<0.0098	<0.097	$0.018^{2}$	0.011 <sup>2</sup>		<5.00	<0.0081
ansthrætoufi (d) oxnsættige (f)	0.0296		<0.010	0.010	0.011	<0.0098	0.04	0.016	0.018		<10.0	<0.0083	APL	APL		<0.0099 <sup>2</sup>	0.012	<0.097	$0.012^{2}$	$0.053^{2}$		<5.00	0.00153
E Benzo (a) pyrene	0.0296		<0.010	<-0.0096	<0.011	<0.0098	0.034	0.011	0.017		<10.0	<0.0083	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL	NOT SAMPLED DUE TO THE PRESENCE OF LNAPI	$0.010^{2}$	<0.0098	<0.097	$0.015^{2}$	$0.028^{2}$		<5.00	<0.0081
ousoerding (g) oxnoU (g)	0.0296		<0.010	0.012	<0.011	<0.0098	0.024	<0.0099	0.013		<10.0	<0.0083	TOT SAMPLED DUE TO	TOT SAMPLED DUE TO	TOT SAMPLED DUE TO	$0.017^{2}$	0.014	0.11	$0.025^{2}$	$0.086^{2}$		<5.00	<0.0081
WELL ID/ DATE	ndwater Cleanup	MW-11 (cont)	03/25/08	03/25/08	80/60-80/60	03/30-31/09	09/10-11/09	03/15/10	09/15/10	MW-12	08/11/99	10/21/99	N 03/29/06	03/21/07 N	03/25/08 N	80/60-80/60	03/30-31/09	00/10-11/00	03/15/10	09/15/10	MW-15	66/01/80	10/20/99

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besd J	5		<1.0	1	1	ī	ı	<1.0	<1.0	<1.0	2.93	<1.0	<1.0	<1.0	<1.0	<1.0	0.1>	12.9	3.5	0.62	0.42	=	0.41	0.12	<0.080	:	:	1	<0.034	1	0.13		<1.0		√1.0	1	l I
oinoerA Ansenic	0.0982		<1.0	1	ī	ī	1	5.27	2.86	2.28	4.24	1.7.1	2.19	3.76	3.47	<1.0	<1.0	1.30	0.92	<0.95	<0.95	<0.95	86.0	8.1	<0.95	:	:	1	0.41	ı	0.42		1.08	ı	3.1	1	1
Indeno (1,2,3-cd) pyrene	0.0296		<5.00	0.011	1	0.189	0.147	0.484	0.107	0.0882	0.350	9200	0.085	0.063	0.033	0.0927	0.0894	0.027	0.19	0.28	<:0.0099	0.041	0.18	0.59	<0.0095	<0.010	<0.010	<0.0098	<0.011	<0.010	<0.010		<5.00	<0.008	1	<0.0100	<0.100
д Дрібепх (з,b) апійгасепе	0.0296		<5.00	0.00233	1	0.155	0.0977	0.154	0.0433	0.0363	0.145	0.0233	0.0265	0.0348	0.0195	0.0417	0.0374	<0.0097	0.053	0.077	<0.0099	0.012	0.046	0.1	<0.0095	<0.010	<0.010	<0.0098	<0.011	<0.010	<0.010		<5.00	<0.008³	1	<0.0100	<0.100
E E D D D D D D D D D D D D D D D D D D	0.0296		<5.00	0.015	:	0.179	0.191	0.474	0.182	0.150	0.530	0.126	0.131	0.087	0.032	0.153	0.160	0.042	0.34	0.41	<0.0099	0.081	0.29	99.0	<0.0095	<0.010	<0.010	<0.0098	<:0.011	<0.010	<0.010		<5.00	.000883	1	<0.0100	<0.100
я Вепхо (k) fluoranthene	0.0296		<5.00	0.00743	1	0.118	0.0894	0.376	0.127	0.106	0.562	0.125	0.135	0.0775	0.0327	0.139	0.126	0.021	0.15	0.26	-0.0099	0.037	0.15	0.57	<0.0095	<0.010	<0.010	<0.0098	<0.011	<0.010	<0.010		<5.00	0.00113	3	0.154(I-02)	<0.100
Benzo (b) fluorantheue	0.0296		<5.00	0.016	;	0.174	0.197	0.374	0.128	0.0967	0.317	0.080	0.085	990.0	0.041	0.0874	9680.0	0.049	0.35	0.46	<0.0099	0.099	0.32	0.55	<0.0095	<0.010	<0.010	<0.0098	<0.011	< 0.010	<0.010		<5.00	.00163	1	<:0.0100	<0.100
Benzo (a) pyrene	0.0296		<5.00	0.013	:	0.282	0.185	0.479	0.168	0.137	0.390	0.111	0.109	9200	0.030	0.121	0.131	0.039	0.31	0.54	<0.0099	0.084	0.30	0.91	<0.0095	<0.010	<0.010	<0.0098	<0.011	<0.010	<0.010		<5.00	.000823	1	<0.0100	<0.100
eneorathins (s) ozned (g)	0.0296		<5.00	0.016	1	0.264	0.171	0.524	0.209	0.170	0.613	0.151	0.155	0.093	0.042	0.151	0.154	0.046	0.36	0.40	<0.0099	0.071	0.24	0.61	<0.0095	<0.010	<0.010	<0.0098	<0.011	<0.010	<0.010		<.5.00	.0012 <sup>3</sup>	1	0.375(I-02)	<0.100
WELL ID/ DATE	ndwater Cleanup	MW-19	08/11/99	10/20/99	06/21/01	06/26/03	09/16/03	12/15/03	03/26/04	03/26/04	09/23/04	03/14/05	03/14/05	03/29/06	03/29/06	03/21/07	03/21/07	03/25/08	03/25/08	80/60-80/60	03/30-31/09	09/10-11/09	03/15/10	09/15/10	11/16/11		06/21/12 (F		09/20/12 (F	04/24/13	04/24/13 (F	MW-20	08/11/99	10/20.99	09/28/00	06/26/03	09/16/03

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Groundwater PAHs and Metals Analytical Results
Former Chevron Bulk Plant #1001327
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bead $g$	5		<1.0	0.1△	<1.0	0.63	1 8	0.053	0.10	0.032	00:0	1	1	<0.034	1	<0.073		\(\frac{1}{\sqrt{1}}\)		ī	1	ī	Ī	1	0. 7	0.1	9: C	0.1	<1.0	0.33	0.058	<0.050	0.11	<0.050	<0.052	<0.08	1	1	1	1.8	0.052	<0.047
oinoerA, ga (1.1)	0.0982		4.36	2.53	2.34	3.2	1 }	2.4	C. 3	5.2	Ş 1	1	1	11.9	1	1.4		3.8	2 1	Ĩ	1	ī	ī	ī	12.6	13.2	16.8	16.4	16.2	14.6	<0.95	Ξ	6.6	8.5	8.7	1.60		1	1	1 1	15.5	11.6
ளவரு (bɔ-ɛ̃.ಓl) onebnl ஜ	0,0296		<0.0100	<0.0100	<.0.00980	<0.0099	1 6	0.016	0.01	0.02	<0.010	<0.011	<0.010	<0.011	<0.010	<0.010		<5.00	<0.0078	ı	1	1	2.35	<0.100	<0.0100	~0.0100	<0.0100	<0.00955	<0.0485	< 0.010	0.020	<0.10	<0.0098	0.080	<0.0098	<0.0095	<0.010	<0.011	<0.0095	0.011	010.0	<0.010
Dibenz (4,6) anthracene	0,0296		<0.0100	<0.0100	<0.00980	<0.0099	1 6	<0.010	0.000	56000	<0.010	<0.011	<0.010	<0.011	<0.010	<0.010		· 5 00	<0.00783	1	Ĭ	ı	3.06	<0.100	<0.0100	00.0100	<0.0100	<0.00954	<0.0485	< 0.010	<0.010	<0.10	<0.0098	0.075	<0.0098	<0.0095	<0.010	<0.011	<0.0095	<0.011	<0.010	<0.010
C prysene E Chrysene	0.0296		<0.0100	<0.0100	<0.00980	<0.0099	1 6	0.013	0.010	0.012	<0.010	<0.011	<0.010	<0.011	<0.010	<0.010		<\$ 00	<0.0078	I	ı	I	<0.0100	<0.100	<0.0100	0.0100	<0.0100	<0.00953	<0.0485	0.011	0.012	0.018	<0.0098	0.039	0.021	<0.0095	<0.010	<0.011	<0.0095	<0.011	0.010	<0.010
(F. Benzo (k.) fluoranthene	0.0296		<0.0100	<0.0100	<0.00980	<0.0099	1	<0.010	0.010	0.011	<0.010	<0.011	<0.010	<0.011	<0.010	<0.010		<5.00	<0.0078	1	1	1	<0.0100	<0.100	0.0100	0.0100	<-0.0100	<0.00956	<0.0485	<0.010	0.012	<0.10	8600.0>	0.038	**00.00	<0.0095	<0.010	<0.011	<0.0095	<0.011 0.010	0.010	<0.010
E Benzo (b) fluoranthene	0.0296		<0.0100	<0.0100	<0.00980	0.015	1 3	0.022	0.011	+10.0 0 005	<0.010	<0.011	<0.010	<0.011	<0.010	<0.010		25 00	<0.0078	1	1	Ī	0.646	<0.100	<0.0100	0.0100	<0.0100	<0.00958	<0.0485	<0.010	0.017	<0.10	<:0.0098	0.045	<0.0098	<0.0095	<0.010	<0.011	<0.0095	<0.011	<0.010	<0.010
E Benzo (a) pyrene	0.0296		<0.0100	<0.0100	<0.00980	<0.0099	ı,	0.017	<0.010	0.018	<0.010	<0.011	<0.010	<0.011	<0.010	<0.010		S 00	<0.0078	1	1	1	<0.0100	<0.100	<0.0100	00.0.0	<0.0100	<0.00957	<0.0485	<0.010	0.022	<0.10	<0.0098	0.046	<0.0098	<0.0095	<0.010	<0.011	<0.0095	<0.011	<0.010	<0.010
92 Benzo (a) anthracene	0.0296		<0.0100	<0.0100	<0.00980	0.012	INACCESSIBLE	0.014	<0.010	0.000	<0.010	<0.011	<0.010	<0.011	<0.010	<0.010		<5.00	<0.0078	1	ı	1	0.569	<0.100	0.0100	0.0100	<0.0100	<0.00952	<0.0485	<0.010	0.011	<0.10	<0.0098	0.013	0.011	<0.0095	<0.010	< 0.011	<0.0095	<0.011	0.010	<0.010
WELL ID/ DATE	ndwater Cleanup	MW-20 (cont)	12/15/03	03/26/04	03/21/07			09/10-11/09	03/15/10	11/16/11 Th		06/21/12 (F		09/20/12 (F	04/24/13	04/24/13 (F	MW-21	08/10/80	10/19/99	06/21/01	06/21/01	03/18/02	06/26/03	09/16/03	12/15/03	09/23/04	03/14/05	03/29/06	03/21/07	03/25/08	80/60-80/60	03/30-31/09	09/10-11/09	03/15/10	09/15/10	9/25/2011	10/10/11		06/21/12 (F	09/20/12 00/20/12		04/23/13 (F

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besd. 1.30.	5		√1.0	1 🗸	0.12	<0.050	<0.050	0.45	<0.050	<0.052	<1.00		3.71	1	1	1	<1.0	0.1>	<1.0	<1.0	0.1.0	<1.0	0.15	<0.050	<:0.050	< 0.050	0.21	<0.052	<0.08	ř	1	1		<0.034	ı	<0.073
الله Arsenic (مور Arsenic	0.0982		1.66	1.15	3,5	6.4	3.6	3.9	4.8	5.7	<1.00		1.42	1	1	1	17.6	10.1	3.97	12.3	9.81	7.23	0.9	<0.95	<0.95	<0.95	<0.95	<0.95	1.60	ı	1	1	1	2.3	ı	060
ensiva (b2-5.5.1) ensent	0.0296		<5.00	<0.0100	<0.0095	<0.010	<0.0099	<0.0097	<0.0099	<0.0095	<0.00943		<5.00	<0.0079	<0.0100	<0.0100	0.0608	<0.0100	< 0.0100	0.010	<0.00971	<0.0100	<0.0095	<0.010	<0.0097	<0.0098	0.013	<0.0098	<0.0095	>0.0096	<0.0099	<0.0095	<0.010	<0.0097	<0.010	<0.010
ट्ट Dibeax (३,६) अवस्तित्यद्वाट ट्र	0.0296		<5.00	<0.0100	<0.0095	<0.010	<0.0099	<0.0097	<:0.0099	<0.0095	<0.00943		<5.00	<0.0079³	<0.0100	<0.0100	< 0.0100	<0.0100	<0.0100	< 0.0100	<0.00971	<0.0100	<0.0095	<0.010	<0.0097	<0.0098	<0.0096	<0.0098	<0.0095	<0.0096	<0.0099	<0.0095	<0.010	<0.0097	<0.010	<0.010
(ридзепе В Сундзепе Е	0.0296		<5.00	0.002	<0.0095	<0.010	<0.0099	<0.0097	<0.0099	<0.0095	<0.00943		<5.00	<0.0079	<0.0100	<0.0100	0.0448	0.0151	<0.0100	0.015	<0.00971	0.0113	<0.0095	0.019	<0.0097	<0.0098	0.025	<0.0098	<0.0095	<0.0096	<0.0099	<0.0095	<0.010	<0.0097	<0.010	<0.010
Вепхо (Ы) Ячоганthене	0.0296		<5.00	0.0012	<0.0095	<0.010	<0.0099	<0.0097	<0.0099	<0.0095	<0.00943		<5.00	<0.0079	<0.0100	<0.0100	<0.0100	0.0117	<0.0100	0.0192	< 0.00971	<0.0100	<0.0095	<0.010	<0.0097	<0.0098	0.011	<0.0098	< 0.0095	>0.0096	<0.0099	<0.0095	<0.010	<0.0097	<0.010	<0.010
д В Вепхо (b) Ачогансћеве	0.0296		<5.00	0.0024	<0.0095	<0.010	<0.0099	<0.0097	<0.0099	<0.0095	<0.00943		<5.00	<0.0079	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	0.013	<:0.00971	<0.0100	<0.0095	<0.010	<0.0097	<0.0098	0.025	<0.0098	<0.0095	9600.0>	<0.0099	<0.0095	<0.010	<0.0097	<0.010	<0.010
G Benzo (a) pyrene	0.0296		<5.00	<0.0100	<0.0095	<0.010	<0.0099	<0.0097	<:0.0099	<0.0095	<0.00943		<5.00	< 0.0079	<0.0100	<0.0100	0.0628	<0.0100	<:0.0100	0.012	<0.00971	0.0111	<0.0095	<0.010	<0.0097	<0.0098	0.022	<0.0098	<0.0095	>0.0096	<0.0000	<0.0095	<0.010	<0.0097	<0.010	<0.010
H. Benzo (s) anthracene	0.0296		<5.00	<0.0100	<0.0095	<0.010	<0.0099	<0.0097	<0.0099	<0.0095	<0.00943		<5.00	<:0.0079	<0.0100	<0.0100	0.064	0.0142	<0.0100	0.014	<0.00971	0.0133	<0.0095	<0.010	<0.0097	<0.0098	0.021	<0.0098	<0.0095	>0.0096	<0.0099	<0.0095	<0.010	<0.0097	<0.010	<0.010
	dnuı						Voga-1	YOM																								(F		(F		Ŧ
WELL ID/ DATE	ndwater Cleanup	MW-22	08/10/80	03/21/07	03/25/08	80/60-80/60	03/30-31/09	00/10-11/00	03/15/10	09/15/10	MW-24 03/21/07	MW-25	66/60/80	66/61/01	06/25/03	09/15/03	12/15/03	03/25/04	09/22/04	03/14/05	03/29/06	03/21/07	03/25/08	80/60-80/60	03/30-31/09	09/10-11/00	03/15/10	09/15/10	9/25/20113	10/10/11	06/21/12	06/21/12	09/20/12	09/20/12	04/22/13	04/22/13

Table 3
Groundwater PAHs and Metals Analytical Results
Former Chevron Bulk Plant #1001327
1602 North Northlake Place
Seattle, Washington

	199																																		
T) g Lead g Lead	5.		<1.0	t	ı	1 -	0.7	0.1	0.38	<0.050	<0.050	<0.050	<0.050	<0.052	<0.08	1	1	1	ı	l	<0.034	0.10	1 9	<0.0/3		1	1	1		6.82	1	1	1	1	1
oinoszi A. ga (J. )	0.0982		△1.0	1	I.	1 5	1.03	0.1∆ 0.1.0	< 0.70	<0.95	<0.95	< 0.95	<0.95	<0.95	<0.95	I	ı	ı	1		0.53	0.49	- 0.40	74.0>		1	1	1		9.21	1	1	ı	1	1
Indeno (1,2,3-cd) pyrene	0.0296		<5.00	.00333	<10.0	0.0100	~0.0100	<0.00952	<0.0099	<-0.0099	<0.0098	<0.0098	<0.0096	<0.010	9600.0>	<0.0096	<0.010	<0.011	<0.010	<0.010	<0.0098	<0.010	<0.010	<0.010		<0.100	<0.032	ı		<5.00	<0.0082	<0.0081	1	1	1
T Dibenz (a,b) anthracene D	0.0296		<5.00	<0.0081	<10.0	001000	<0.0100	<0.00952	<0.0099	<0.0099	<0.0098	<0.0098	>0.0096	<0.010	<0.0096	9600'0>	<0.010	<0.011	<0.010	<0.010	<0.0098	<0.010	<0.010	<0.010		<:0.100	<0.032	1		<5.00	<0.0082³	<0.00813	ı	Ĩ	1
E Chrysene D	0.0296		<5.00	.0044	<10.0	00100	0.0100	<0.00952	<0.0099	<0.0099	<0.0098	<0.0098	<0.0096	<0.010	<0.0096	<0.0096	<0.010	<0.011	<0.010	<0.010	<0.0098	<0.010	<0.010	<0.010		<0.100	.00423	1		<5.00	<0.0082	<0.0081	1	1	
$\widetilde{z}$ Benzo (k) fluoranthene $\widetilde{z}$	0.0296		<5.00	.00273	<10.0	<0.0100	0.0739	<0.00952	<0.0099	<0.0099	<0.0098	<0.0098	<0.0096	<0.010	<0.0096	9600.0>	<0.010	<0.011	<0.010	<0.010	<0.0098	<0.010	<0.010	<0.010		<0.100	.003333	I		<5.00	<0.0082	<0.0081	1	1	1
F Benzo (b) fluoranthene	0.0296		<5.00	.0051³	<10.0	<0.0100	0.0100	<0.00952	<0.0099	<0.0099	<0.0098	8600.0>	0.0434	<0.010	>0.0096	>0.0096	<0.010	<0.011	<0.010	<0.010	<0.0098	<0.010	<0.010	<0.010		<0.100	.006³	٦,		<5.00	<0.0082	<0.0081	ī	J -	ė,
Benzo (a) pyrene	0.0296		<5.00	.0039	<10.0	<0.0100	0.0100	<0.00952	0.011	<0.0099	<:0.0098	<0.0098	9600.0>	<0.010	9600.0>	<0.0000	<0.010	<0.011	<0.010	<0.010	<0.0098	<0.010	<0.010	<0.010		<0.100	,0013³	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL		<5.00	<:0.0082	<0.0081	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL
Benzo (a) anthracene	0.0296		<5.00	.0042³	<10.0	<0.0100	0.0100	<0.00952	<0.0099	<0.0099	<0.0098	<0.0098	9600.0>	<0.010	>0.0096	<0.0096	<0.010	<0.011	<0.010	<0.010	<0.0098	<0.010	<0.010	<0.010		<0.100	.0041³	OT SAMPLED DUE TO		<5.00	<0.0082	<0.0081	OT SAMPLED DUE TO	OT SAMPLED DUE TO	OT SAMPLED DUE TO
WELL ID/ DATE	ndwater Cleanup	MW-26	66/60/80	10/19/99	04/12/00	06/25/03	03/14/05	03/29/06	03/25/08	80/60-80/60	03/30-31/09	60/11-01/60	03/15/10	01/51/60	9/25/20113	10/10/11		06/21/12 (F				09/26/12 (F.	04/22/13		MW-27	09/13/99		01/51/60	MW-28	08/11/99	10/21/99				09/15/10 NG

Table 3
Groundwater PAHs and Metals Analytical Results
Former Chevron Bulk Plant #1001327
1602 North Northlake Place
Seattle, Washington

bes-1 g	5		1.84	ı	1	<1.0 0.18	0.053	<0.052	ı	E	E	0.073	ı	1	<0.073	<0.047		<1.0 0.1>	i	;	i	ì	<1.0	<1.0	0.1>		<0.050	<0.050	<0.052	ı	1	1	0.041	1 8	0.097		1.21	1	1	Î
olnost (1)	0.0982		9.01	ı	1	4.68	0.0	7.7	ı	E	1	12.8	ı	1	10.9	11.6		0.1>	1	1	1	1	√1.0	<1.0	<1.0		<0.95	<0.95	<.0.95	•	1	1	<0.40	1 4	<0.40		<1.0	1	. 3	1
anavyq (ba-Lett, t) onabnu d	0.0296		<5.00	.0011.	<0.0100	0.00994	0.095	0.17	<0.010	<0.0095	< 0.010	<0.0099	<0.010	<0.010	<0.010	<0.010		<5.00	.0013 <sup>3</sup>	<10.0	0.0776	< 0.0100	<0.0100	<0.0100	<0.00943	1 3	0.011	<0.010	-0.0093	96000	0.0000	<0.010	0.010	0.010	<0.010		<5.00	<0.0081	1	<10.0
onsorntrum (a,h) anthracene	0.0296	0	<5.00	< 0.008	<0.0100	<0.00943	0.097	0.03	<0.010	<0.0095	<0.010	<0.0099	<0.010	<0.010	<0.010	<0.010		<5.00	<0.0079	<10.0	<0.0100	<0.0100	<0.0100	<0.0100	<0.00943	1	<0.0098	0.010	0.0093	0.0096	0.000	0.010	0.010	0.010	<0.010		<5.00	<0.0081 <sup>3</sup>	ı	<10.0
E Chrysene	0.0296		<5.00	.00143	<0.0100	<0.00943	0.32	0.61	0.012	<0.0095	<0.010	<0.0099	0.015	0.013	<0.010	<0.010		<5.00	<0.0079	<10.0	0.0285	<0.0100	0.051	<0.0100	<0.00943	1 3	0.014	0.010	0.0093	9600.0>	0.0030	0.010	0.010	-0.010	~0.010		<5.00	<0.0081	ī	<10.0
anathnerouk (k) fluoranthene	0.0296		<5.00	.0014	<0.0100	<0.00943	0.097	0,17	<0.010	<0.0095	<0.010	<0.0099	<0.010	<0.010	<0.010	<0.010		<5.00	<0.0079	<10.0	0.0164	<0.0100	<0.0100	<0.0100	<0.00943	1 6	<0.0098	0.010	-0.009	0.0090	0.000	0.010	0.010	0.010	0.010		<5.00	<0.0081	1	<10.0
anarthneroud (d) oxnastige	0.0296		<5.00	.6100	<0.0100	<0.00943	0.18	0.2	<0.010	<0.0095	<0.010	<0.0099	<0.010	<0.010	<0.010	<0.010		<5.00	.00223	<10.0	<0.0100	<0.0100	<0.0100	<0.0100	<0.00943	1 6	0.021	0.000	0.0000	0.000	0.000	0.010	0.010	0.010	010.0		<5.00	<0.0081	I	<10.0
(E) Reuzo (#) bluene	0.0296		<5.00	< 0.008	<0.0100	<0.00943	0.097	0.15	<0.010	<0.0095	<0.010	<0.0099	<0.010	<0.010	<0.010	<0.010		<5.00	0.000913	<10.0	0.0264	<0.0100	0.0653	<0.0100	<0.00943		0.011	0.000	0.000	0.000	0.000	0.010	0.010	0.010	010.0		<5.00	<0.0081	1	<10.0
а Вепхо (а) апthгасепе	0.0296		<5.00	.00143	<0.0100	<0.00943	0.29	0.55	0.011	<0.0095	0.011	6600.0>	0.015	0.015	<0.010	<0.010		<5.00	.0012 <sup>3</sup>	<10.0	0.0476	<0.0100	<0.0100	<0.0100	<0.00943	UNABLE IU LUCATE	0.012	010.0	0.000	0.000	0100	0.010	0.010	0.010	010.0		<5.00	<0.0081	1	<10.0
WELL D/ DATE	ndwater Cleanup	AGI-2	66/01/80	10/20/99	06/25/03	03/21/07	03/15/10	09/15/10	06/21/12	06/21/12 (F	09/20/12	09/20/12 (F	04/23/13		04/23/13 (F	04/23/13 DI	MLU-1	08/10/99	10/20/99	04/12/00	06/25/03	09/15/03	12/15/03	03/25/04			09/10-11/09	00/15/10	01/21/20	06/21/12 (F		21/02/00 21/02/00		04/22/13 (F		MW-8	66/60/80	10/20/99	01/06/00	04/12/00

Table 3
Groundwater PAHs and Metals Analytical Results
Former Chevron Bulk Plant #1001327
1602 North Northlake Place
Seattle, Washington

E Lead U	5		<1.0	<1.0	1			<1.00			<1.0	1	
oin927A. 2010	0.0982		<1.0	3.1	ı			<1.00			<1.0	I	\$0
Figure (1,2,3-cd) pyrene	0.0296		1	;	<0.0100			<0.00980			<10.0	0.0075	
ensearthur (d,s) snedi([ 3]	0.0296		ï	1	<0.0100			<0.00980			<10.0	0.00193	
gaskiq.) (K.C.Prysene	0.0296		1		<0.0100			<0.00980			<10.0	0.013	
В Вепхо (k) Йиогаптhепе	0.0296		1	1	<0.0100			<0.00980			<10.0	0.00753	
Benzo (b) fluoranthene	0.0296		1	3	<:0.0100			<0.00980			<10.0	0.011	
E Benzo (a) pyrene	0.0296			:	<0.0100			<0.00980			<10.0	0.01	
F Benzo (a) anthracene	0.0296		1	1	<0.0100	DECEMBER 2003		<0.00980			<10.0	0.0099	DISCONTINUED MONITORED/SAMPLING
WELL ID/ DATE	ndwater Cleanup	MW-8 (cont)	06/27/00	09/28/00	06/25/03	DECOMMISSIONED DECEMBER 2003	MW-16	03/21/07	ABANDONED	MLU-3	08/20/99	10/20/99	DISCONTINUED M

# Table 3 Groundwater PAHs and Metals Analytical Results

Former Chevron Bulk Plant #1001327 1602 North Northlake Place Seattle, Washington

## EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to 2010 were compiled from reports prepared by SAIC.

LNAPL = Light Non-Aqueous Phase Liquid

PAH = Poly Aromatic Hydrocarbons

(μg/L) = Micrograms per liter

(Q-20) = The internal standard associated with this analyte was outside the normal acceptance criteria

(D) = Duplicate

(F) = Field Filtered

(I-02) = This sample was analyzed outside of the recommended holding time

# ANALYTICAL METHOD:

Selected PAHs by EPA Method 8270C SIM

Arsenic and Lead by EPA Method 6020

Bolded and shaded values exceed Model Toxics Control Act (MTCA) Method B Surface Water Cleanup Levels (CULs)

Laboratory report indicates due to the sample matrix an initial dilution was necessary to perform the analysis. Therefore, the reporting limits for the GC/MS semivolatile compounds were raised.

Laboratory report indicates the surrogate data is outside the QC limits due to irresolvable matrix problems evident in the sample chromatogram.

Laboratory report indicates estimated value.

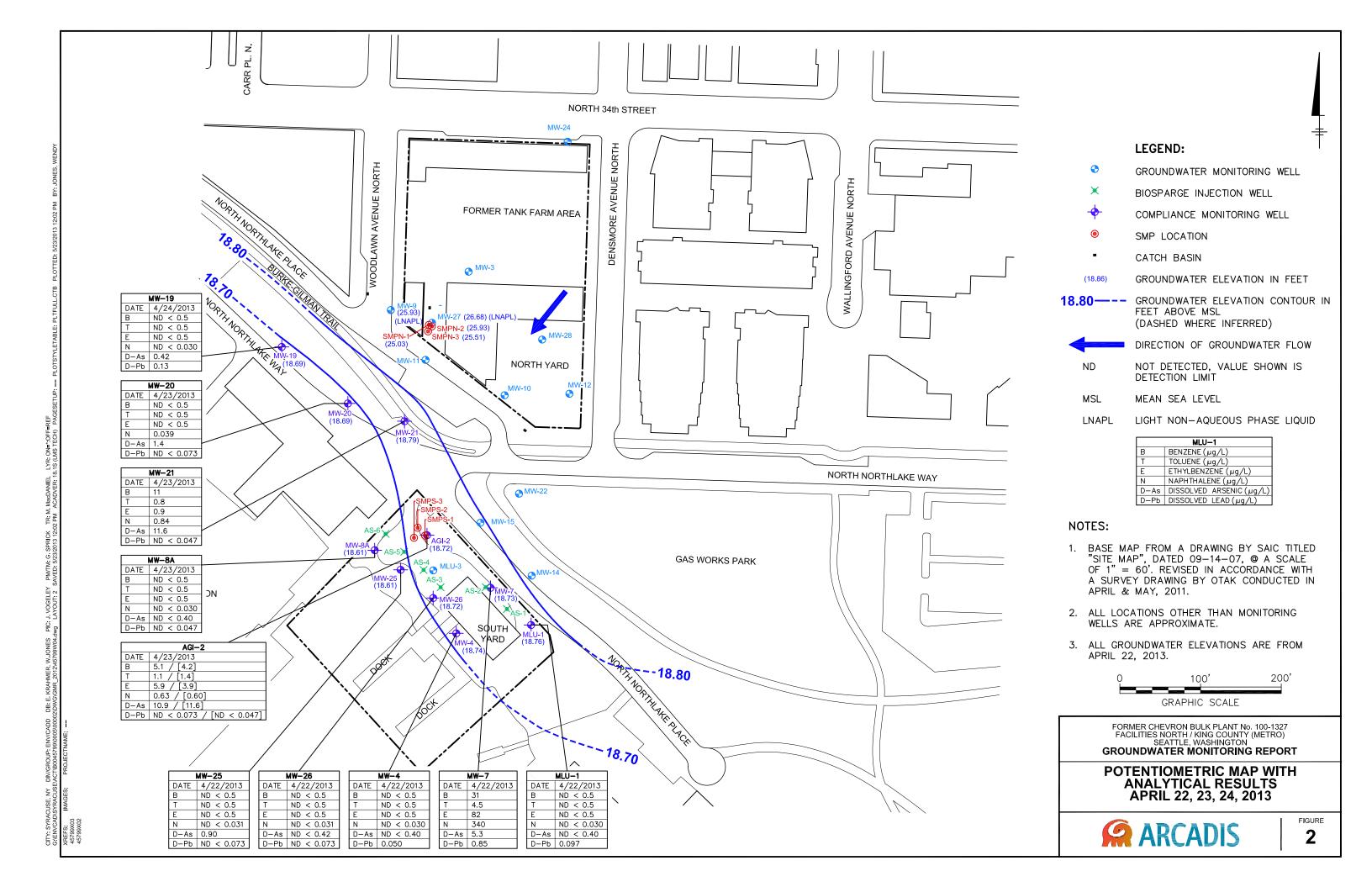
Laboratory report indicates Benzo (b) fluoranthene and benzo (k) fluoranthene were not resolved under the sample analysis conditions. The result reported for benzo (b) fluoranthene represents the combined total of both isomers.

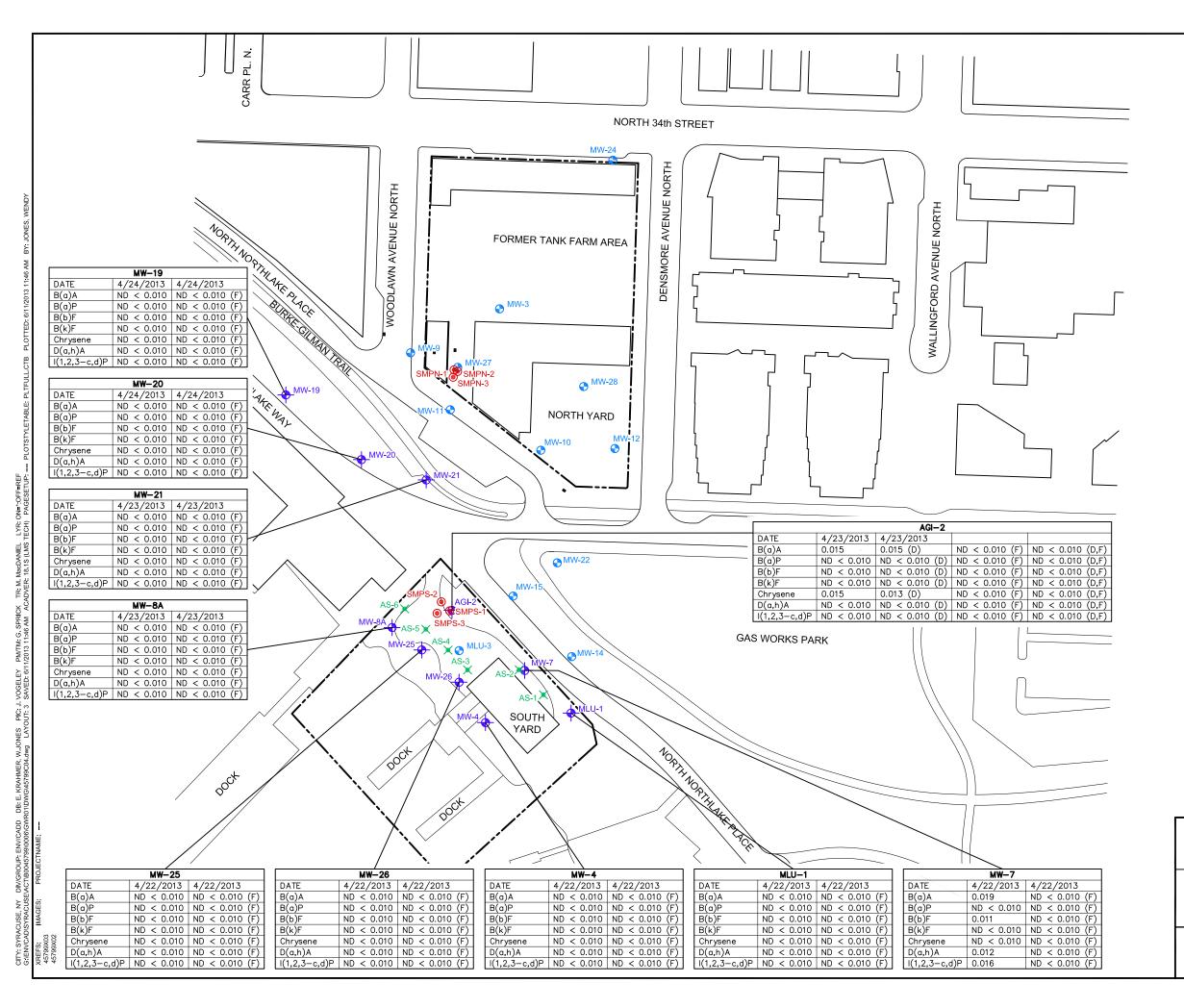
Laboratory report indicates the sample was extracted outside of the method required holding time

#### **ARCADIS**

Figures







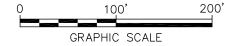
#### LEGEND:

- GROUNDWATER MONITORING WELL
- BIOSPARGE INJECTION WELL
- COMPLIANCE MONITORING WELL
- SMP LOCATION
- CATCH BASIN
- ND NOT DETECTED, VALUE SHOWN IS DETECTION LIMIT
- (D) DUPLICATE SAMPLE
- (F) FIELD-FILTERED SAMPLE

	SAMPLE ID
DATE	Sample Collection Date
B(a)A	Benzo (a) anthracene (µg/L)
B(a)P	Benzo (a) pyrene (µg/L)
B(b)F	Benzo (b) fluoranthene (µg/L)
B(k)F	Benzo (k) fluoranthene (µg/L)
Chrysene	Chrysene (µg/L)
D(a,h)A	Dibenz (a,h) anthracene (µg/L)
I(1,2,3-c,d)P	Indeno (1,2,3-c,d) pyrene ( $\mu$ g/L)
(D)	Duplicate Sample
(F)	Field—filtered Sample

#### NOTES:

- BASE MAP FROM A DRAWING BY SAIC TITLED "SITE MAP", DATED 09-14-07, @ A SCALE OF 1" = 60'. REVISED IN ACCORDANCE WITH A SURVEY DRAWING BY OTAK CONDUCTED IN APRIL & MAY, 2011.
- 2. ALL LOCATIONS OTHER THAN MONITORING WELLS ARE APPROXIMATE.



FORMER CHEVRON BULK PLANT No. 100-1327 FACILITIES NORTH / KING COUNTY (METRO) SEATTLE, WASHINGTON

**GROUNDWATER MONITORING REPORT** 

cPAH ANALYTICAL RESULTS APRIL 22, 23, 24, 2013



FIGURE

#### **ARCADIS**

Appendix A

Field Notes

S. MCG.	NIGE	NC	METRI	O GWM	4-22-13
1630		rvines ons		Sitewalk	Investigates down +
100	3 Sim Mil	es on 211te.	Fills o	4121V خر	or paperworu. SWM do
130		H leve si			ng ritched sex that co
200	> SCM a	wives bac	u ou sik.	Besin s	evsing round!
	Wen	DTW	0+6	12D	COMPLENTS
	MW-4	15.18	4	0.0	
	MW-26	11.90		0.0	
	HW-25	12.30		0.0	
	AB-WM		-	0.0	
	AGI-2		FD FOR.	CUPREN	rck Bretter
	F-WM			250	
	MW-1	14.14	-	00	
	MW-19	12.18		0.0	
	MW-20	12.80		333	
	MW 21	12.77 West 11.01		0.0	
1 1 1	MW-9			1119	PEPLACED OR SOLL
	SMPN-1	8.75	SHEEN	00	REPLACED OSE SOCK
	SMPN-2 SMPN-3	8.30		8.2	
			7 2 2	212	
	MW 27	7.37	7.33 BY (OM)	MERCINC	REPLACED OTE SOCK
330	» Sample	MW - 1.			
RH10	3 Sample	MW.7.			
1450	> Sample	MW.4.			
1530 .	& Simple	MW-26			
610 -	Semple	MW-25			
700 3	Lane Side	0			

Lean Stoland she Ruin

S. MIG	UTRE	KLL	ietro E	ZWH CDAY	(2)	4	-23-13
0815 3	Arrive Site is	cosite	after p	ils SWM	me to 1	detector	for AGT-7.
0830 3	Mas to Prepare	N lot. C	endret	teily ate.	Remen	Sow.	
0930 ->	Get Ox	ors. Code	15 18	12. USL	metal	detector	to
1020 7	5=mple	MW-8A.					
1110 ->	Sample	A61-2	ALSO	DUP-1.			
1200 -	Take Line	L			1		
1330 >	Somple	MW-20		- 13			
1430 3	Sample	MW-E					
1530 -	musa	- down	we ke,	Prep drur	W Fir	premup.	
1630 -	CLIN SA	M. MW-	19 15 3	nil bloca	.s. Con	us put on	hive
				n lone was			
1715	3 Site al	eined op	SPC 8	A			
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			н.				
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		- Allentan					

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						-	-				-	-				1		-			
5 700	) 3	SCA	1 9	urine	3 4	1 51	iden	7	_ ; L	5 0	n	Irv	عي 🕽	4.1		,				-	
			-			-	-				-	-						-			
73	0 -	Men	h	MW	-19																
			-								_										
080	) ·>	Sem	ple_	eru-	19.		+				-								-		
3900	, ->	cler	ب ا	o site	. 1=	11	40	de	UM	92											
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				12-5																	
and the second											I										
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						11				13											
	1						243	1	M	2								1			
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	+-						+			-					-				-		
-						-	-		-	-			+				-	-			
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	41		-							8.			1			1					
1	-				1						1		17	-				-			
+ +	1										-					1		-	-		
					++		-				-										
	-				+++				-		-		-	-		-		-			
+	-	-			++		-						11			n		-		-	

Rite in the Rain.

FEEE F		כועו	Groundwat	er San	ipiing r	orm					Page 1	of 1	
Project No.				_	Well ID	AGI	- 2			Date	4-	23	_
Project Name	/Locatio	r UC	HETVO							Weather	SUI	N	
Measuring Pt Description		K_	Screen Setting (ft-bmp)			Casing Diameter (in.)	2 *			Well Mate		PVC SS	•
Static Water Level (fl-btoc)	11	196	Total Depth (ft-bi	oc)		Water Colum Gallons in W				Initial PID Reading (p	pm) <u>1</u>	11	
TOC Elevation	n		Pump Intake (ft-	otoc)		Purge Metho	d: ( and	FLOU	3	Sample			
Pump On/Off	1100	1120	Volumes Purge	4			Centrifugal Submersible			Method	GRA	<b>B</b>	•
Sample Time	: Label Start End	<u>1116</u>	Replicate/ Code No.	Do	P-1	-	Other		And the second second second	Sampled i	by McG	LISTE	_
Time	Minutes		Depth to Water	Gallons Purged	pH	Cond.	Turbidity	Dissolved Oxygen	Temp.	Redox	Appea	arance	1
		(aptimo)	(ft)	ruigeu		(mS/cm)	(NTU)	(mg/L)	E E	(mV)	Color	Odor	1
1100	C	tec	11,96	0	6.23	523.1	t-	0.68	12.9	°K.2	ilen	-	अभवत
1103	3		-	600	-	523.6	-	0.46	129	109.4	1	V	1
1106	8	1	11 00	1200	0.63	522.7		0114	12.5	105.8	1	/	
1109			11,99	1800	6.09	522.7	games .	0.43	12-9	1049	- 1	~	
													-
													1
ON	.0	1.0	-	5	11								
()F	T	W	18		11	V							
1)	6 )		j										
		1	-										
		,											
onstituents	-				Containe				Number		Preservat	tive	
		GRO		-		VOA	-	-		_	Н		
10.4		and MTB	7	-		VOA		-		_	Н		
わず			Besoure	-		POLY		-		-	***************************************	103	•
	C84			-		GUIS		-	-	_	<u>U</u>		•
H	FCP	44 / N	HOTH	_		17 LA	35	-		-		NA .	
				-				_	1	_			
				_				-	***************************************	-			
Vell Casing \			F1 0.00										a.
	1" = 0.04 1 25" = 0.0		.5" = 0.09 " = 0.16	$2.5^{\circ} = 0.20$ $3^{\circ} = 0.37$		3 5" = 0.50 1" = 0.65	6" = 1.47						
Vell Informa	tion			Mary and the same of the same		13							
Well Loca	tion:	NS	DE /N	COT	1 WY	cc Mem	Well I	Locked at	Arrival:	Yes	1	(No)	
Condition of	Well:	1900	CK				Well Loc	ked at De	parture:	Yes	: /	No	
Well Compl	etion:	F	Hush Mount	/ Stic	ck Up		Key	Number '	To Well:			GM	Samu Form

										I	Page 1	of 1
Project No.	edjoint-ministration				Well ID	<u> Mu</u>	-	•		Date _	4-	2.2
Project Name	e/Location	<u> </u>	ic me	TRC						Weather	SUI	<u> </u>
Measuring Pt Description			Screen Setting (fi-bmp)			Casing Diameter (in	4"			Well Mater	-	PVC SS
Static Water Level (ft-bloc)			Total Depth (ft-t	otoc)		Water Colur Gallons in W				Initial PID Reading (pp	om) 💪	6
TOC Elevation	n		Pump Intake (fi	-btoc)		Purge Metho	od: Low Centrifugal	12,000		Sample		
Pump On/Off			Volumes Purge	ed			Submersible			Method	GUA	<u>B</u>
Sample Time	: Label		Replicate/				Other					
	Start End		Code No.			-				Sampled b	y Mil	70286
Time	Minutes	Rate	Depth to	Gallens	pH	Cond.	Turbidity	Dissolved	Temp.	Redox	A	
	Elapsed	(gpm) (mL/min)	Water (ft)	Purged		(µMhos)	(NTU)	Oxygen (mg/L)	(°F)	(mV)	Appea	Odor
1310	0	Low		600	5.89		_	LM	10.5	187.5	cles	X
1313	3	200		120	5.72	95.0		1.10	10-1	185.5		
1316	6	7.00		1800	5.44	95.1	_	1,03	10:4	185-5	l	1
1319	٦	200	1	+	5:70	85.2	-	1.09	10.3	18500	1	
				+								
						,						
	AN	1P(	5	100		13	60				-	
	,,	- (										
	0.											
				+								
Constituents	- 5	d GRO			Containe	r Voa			Number		Preservat	
<u></u>		and MTBI	F	_	-	VOA		-	-		HC	
***		AL LEAD		_		POLY		-		• •	HNO	
<del></del>	CRA	Contraction of the Contraction o		-		GLASS	750	-			UL	
(			TIALEXE			V		-	***************************************		+	
D.+	ile	AD				PUET	MA	_			HX	103
O=	5 17	RIEN	TC	_		+		_		-	1	
				_				<del></del>				
Well Casing	Volumes							-		-		
Gallons/Foot	1" = 0.04 1.25" = 0.0	1	,5" = 0.09 " = 0.16	2 5" = 0.2 3" = 0.37		5" = 0.50 " = 0.65	6" = 1.47					
Well Informa		-	5555		7							
Well Loca		NE	COPNER	150	100		Well	Locked at	Arrival:	Yes	1	(No
Condition of		Gero						ked at De		Yes	1	(No)
Well Comp			lush Mount	/ Spice	ck Up	West of the second	Key	Number T	o Well:			GW 1974

											Page 1	of 1
Project No.	-				Well ID	MW	4			Date	4-2	2
Project Name	e/Location	KC	METR	0		_				Weather	SN	
Measuring Pt Description		<u></u>	Screen Setting (ft-bmp)			Casing Diameter (in.)	2"			Well Mate	-	PVC SS
Static Water Level (ft-bloc)	15	,18	Total Depth (ft-bi	200)	wir.	Water Colun Gallons in W				Initial PID	. 0	>
TOC Elevation		-	Pump Intake (ft-	***************************************			od: Lav ,	I		Reading (p	pm) <u>O</u>	.0
Pump On/Off		0/150	Volumes Purge	William Street, Square, Square		Purge Metric	Centrifugal Submersible			Sample Method	GRA	<u>B</u>
Sample Time		1450	Replicate/		_		Other			_		ef us
	Start End		Code No.			-				Sampled !	Dy Co	CG ARE
Time	Minutes	Rate	Depth to	Gattons	pН	Cond.	Turbidity	Dissolved	Temp.	Redox		
	Elapsed	(gpm) (mL/mm)	Water (ft)	Purged		(µMhos) (mS/cm)	(NTU)	Oxygen (mg/L)	9	(mV)	Appea	Odor
1440	0	200		0	5,60	50.3		1.76	120	200.0	Cheir	Λ
1443	3			600	5,68	50,8		1.77	11/9	146.8	1	1
1946	6			1200		35.4		1,77	11.9	1845	1	
1449	9	V		1800	5,73	56.0	-	1.79	11,7	1833	- 1	
										1.0		
CAX	Lic	11-		1	4							
OTT	M	CE	(0			20						
	1					- Andrews						
			2					<u> </u>				
Constituents					Containe				Number		Preservat	ive
		GRO				VOA			-		НС	L
10 -		and MTBI	2	•		VOA	12			_	НС	<u>L</u>
DES		AL LEAD	16565	-	-	POLY			1		HN	
CPA	•			-		GUA	19 25c	2	2			114
LP	CPAH / NAPTH						-		2			1¢
				_					2			
									-			
										_		
				_							,	
Wall Carry	V-1											
Well Casing \ Gallons/Foot	1" = 0.04		5" = 0.09	2.5" = 0.2	6 3	3.5" = 0.50	6" = 1.47					
	1.25" = 0.0	06 2	" = 0.16	3" = 0.37	4	l" = 0.65						
Well Informa	ation											
Well Loca	ition:	SS	TOE/S	(0	T		Well I	Locked at	Arrival:	Yes	ı	No
Condition o	f Well:	~	00 D	-			Well Lock		•	Yes		No
Well Comp	letion:		Flush Mount	/ Sti	ck Up		_	Number				GW mad

			Cidanawat								Page 1	
Project No.		. ,			Well ID	MW.	- +	-		Date	4-2	
Project Name	/Location	_ KC	MED	108					**************************************	Weather	501	4
Measuring Pt Description			Screen Setting (ft-bmp)	-		Casing Diameter (in.	2"			Well Mate	rial	FVC SS
Static Water Level (ft-btoc)	12=	10	Total Depth (ft-bi	toc)		Water Colum Gallons in W				Initial PID Reading (p	pm) _ Z	50
OC Elevatio	<u>n</u>		Pump Intake (ft-	btoc)		Purge Metho	od:		***	Sample		
Pump On/Off			Volumes Purge	d			Centrifugal Submersible			Method		
Sample Time	: Label Start End		Replicate/ Code No.	No	NE	_	Other	***************************************		Sampled t	by MCI	Gust
îme	Minutes Elapsed	Rate (gpm)	Depth to Water	Gallens Purged		Cond.	Turbidity	Dissolved Oxygen	(°C)	Redox	Appea	
1350	0	- Zee	12.40	U	5.78	(mS/cm)	(NTU)	(mg/L)	(°F)	(mV)	Color	Odor
1353	9	1	-	600	5.79	786		0.60		1557	Cliv	X
1356	Ġ.			1900		781		0.55	11.6	155.3	1	1
1359	4	4	12,49	1800		784	-	0.53	11.6	154.9	1	1
S.A	<b>V</b>	80	E	(6	)	141	0					
onstituents	(	GRO			Containe	VOA			Number		<b>Preservati</b> HC	
D=5		and MTBI	,	-		VOA		-			HC	
1/+3		read	ARS DAH	•		POLY		-	7		HNC	***************************************
	* *	POTH	U LYTTI	-		GLASS GLA		-	7-	-	U / 	
				-				-				
	1" = 0.04 1.25" = 0.00		5" = 0.09 " = 0.16	2 5" = 0 2 3" = 0.37		5° = 0.50 "= 0.65	6" = 1.47	-				
Well Local		N	Empe (se	CT)			Well	Locked at	Arrival:	Yes	1	No
Condition of	Well:	Goos					Well Loc		er semente e men	Yes	1	No
Well Comple	etion:		lush Mount	/ Stic	ck Up			Number 1	-		7	0

roject No.					Well ID	11W	AB.			Date	Page 1	
Project Name	/Location	· K	c Metr							Weather	CLO	
Measuring Pt.		06	Screen Setting (ft-bmp)	-		Casing Diameter (in.)	2"		The state of the s	Well Mate		PVC SS
Static Water evel (ft-btoc)			Total Depth (ft-b	toc)		Water Colum Gallons in W	in/			Initial PID Reading (p	om)	
OC Elevation	n ,		Pump Intake (ft-	btoc)	_	Purge Metho	d: LOW	FWW		Sample	Trans-	
ump On/Off	1010	030	Volumes Purge	d			Centrifugal Submersible Other			Method	GRA	+6
ample Time:	Start	1070	Replicate/ Code No.		NE	·	Out of			Sampled	by M	Gus
ime	Minutes Elapsed	Rate (gpm)	Depth to Water	Gallons Purged	pH	Cond. (μMhos)	Turbidity	Dissolved Oxygen	Temp.	Redox		rance
DIU	O)	(gnE/min)	(ft)	ك	6.69	(ms/cm)	(NTU)	(mg/L)	(°F)	(mV) 1/1,3	Color	Odor
1013	3	j		leco	6.36	58.7	_	1A7	11.2	127.8	ì	1
1016	6			1200	6.31	58.7	-	1.18	11.2	130.4	1	1
1019	1	V		1800	6.27	The state of the s	-	1119	11.2	132.5	i	1
						,						
51	7	P	LE	10	D	HE	720	<b>)</b>				
nstituents	Sample	d			Containe	r			Number		Preservat	live
	(	GRO		_		VOA					Н	CL
		and Net Bl		_	•	VOA				_	н	CL
053			MRIENT	_		POLY				_	HN	O3
	PAT	,		_		GLIM				-	J.	The second second
रामक्ष्म (	TH (Y	INA	क्रम	-		4LM	55	-	-	-		M
				-						_		
				•						-		
	<b>'olumes</b> 1" = 0.04 1.25" = 0.0	1.	5" = 0.09 ' = 0.16	2.5" = 0.20 3" = 0.37		.5" = 0.50 " = 0.65	6* = 1.47		100 mm 200 mm			
/ell Informa				1			con(tto)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Well Local			TURNITR.	si	or		The state of the s	ocked at	-	Yes		Nó
Condition of	well	Giv	()				Well Lock	ced at De	parture:	Yes	1	No

#### ARCADIS Groundwater Sampling Form Page 1 of 1 Project No. Well ID Date METRO Project Name/Location Weather Measuring Pt. Screen Casing M PVC Well Material TOC Description Setting (ft-bmp) Diameter (in.) SS Static Water Water Column/ Initial PID 119 Total Depth (ft-bloc) Level (ft-bloc) Reading (ppm) Gallons in Well **TOC Elevation** Pump Intake (ft-btoc) Purge Method: Linu Sample Centrifugal Method Pump On/Off 0720 Volumes Purged Submersible Other Sample Time: Label Replicate/ Sampled by MCGust NONE Start Code No. End Time Minutes Rate Depth to pH Cond. Temp Turbidity Dissolved Redox Appearance Elapsed (gpm) Water (µMhos) Purged Oxygen (mL/min) (ft) (mS/cm) (NTU) (mV) (mg/L) Color Odor 0-730 0 12.18 U 5.97 0723 live 3 231.6 20.1 1200 0736 6 13 227.9 22.4 9 0739 12.26 200 6.12 226.0 126.0 08 **Constituents Sampled** Container Number **Preservative GRO** VOA HCL **BTEX and MTBE** VOA HCL 12-3 TOTALLEAD /AKSENIC POLY HNO<sub>3</sub> 64155 250 UX ITCPERE L UN **Well Casing Volumes** Gallons/Foot 1" = 0.04 1.5" = 0.092.5" = 0.26 $3.5^{\circ} = 0.50$ 6" = 1.47 1,25" = 0.06 2" = 0.16 3" = 0.37 4" = 0.65**Well Information**

Well Locked at Arrival: Yes / No

Condition of Well: Well Locked at Departure: Yes / No

Well Completion: Ptush Mount / Stick Up Key Number To Well:

						4 A 1	- 0		1960		Page 1	
Project No.		1 1			Well ID	MW	. 10	-		Date	4.2.	3
Project Name	Location	M	METE	Ō	The second of th				-	Weather	Brid	
Measuring Pt. Description	poc		Screen Setting (ft-bmp)			Casing Diameter (in.)	2"			Well Mate	rial X	PVC SS
Static Water Level (fl-btoc)	To the second		Total Depth (ft-blo	oc)		Water Colun Gallons in W	nn/			Initial PID Reading (p	om) 33	33
TOC Elevation	1		Pump Intake (ft-b	toc)		Purge Metho	d: Low	FLOW		Sample	34	
Pump On/Off			Volumes Purged	-			Centrifugal Submersible			Method	CHEK	18
	Label Start End	1330	Replicate/ Code No.	Non	VE		Other	-		Sampled t	by M	Guer
Time	Minutes	Rate	Depth to	Gallons	pН	Cond.	Turbidity	Dissolved	Temp.	Redox		
	Elapsed	(gpm) (quL/mih)	Water (ft)	Purged	Pitt	(µMhos)	(NTU)	Oxygen (mg/L)	(F)			rance
1310	U	·w		0	6.02	166.6		1.79	12.8	(mV)	Clay	Odor
1313	3	J		6.00	6.07		-	1,30	12.8	101,5	ا	
1316	6			1200	6,09	159.8	,-	1,31	-	5.101	1	1
1315	7	Ψ			6.02	166.7	-	1,31	12.8	100.3	1	1
											-	
( R	1	71 5	- (0)		0	20						
SAC	41	16			10	00						
						<u></u>		L				
Constituents :	Sample	4			Containe				Number		Preservat	live
		3RO				VOA		-	-		Н	CL
n.c		and MTBE	,			VOA		-			Н	
DE2	The second linear law or the second	PALLEAD	1138 Sever		-	POLY	urt »	-	·		HN	
7-12		CAN	1 / Marcy		-	- 6L	v551	•		-	L	11-1
7 30	CF C	<u>C3771</u>	3 / / 3 / 4 / 5 4			40	V3 /-	-				<u> </u>
					•			-		-		
								•	-			
								_				
	<b>olumes</b> " = 0.04 1.25" = 0.0			2 5" = 0 2 3" = 0.37		5* = 0.50 * = 0.65	6" = 1,47					
Well Informat	tion		×.									
Well Locat		PAT	PHENG S	172.	5¥		Well I	Locked at	Arrival:	Yes	1	Non
Condition of	Well:	· ·	SU(0				Well Loci		_	Yes	1	No
Well Comple	etion:		Jush Mount /	Stic	k Up		-	Number 1				GW

2064 2 11			Ordandwate								Page 1	of 1
Project No.	***************************************				Well ID	MW	1.21	_				3
roject Name	/Location	KC	METRO							Weather		
Measuring Pt Description	T	00	Screen Setting (ft-bmp)	***************************************		Casing Diameter (in.)	2"	_		Well Mate		
Static Water Level (ft-bloc)	12.	.47	Total Depth (ft-btd	oc)		Water Colum Gallons in We	n/			Initial PID Reading (p	om) 🔘 -	
TOC Elevation			Pump Intake (ft-b	loc)		Purge Method	1:10w	Prow		Camala		
Pump On/Off	jm		Volumes Purged	1	-	Purge Method	Centrifugal Submersible			Method	GRA	<u> </u>
Sample Time:	Label Start End	420	Replicate/ Code No.			-	Other			Sampled t	by He	GUER
ime	Minutes Elapsed	Rate (gpm)	Depth to Water	Gallons Purged	pН	Cond. (µMhos)	Turbidity	Dissolved Oxygen	Temp.	Redox	(2.2)	arance
1410	O	(mLimin)	(ft) 1277	0	6.17	(orS/cm)	(NTU)	(mg/L)	(°F)	(mV)	Color	Odor
1913	3	2 pred		600	6,19	388~1		1.39	125	99.3	-	
1916	6			1200		2887		1.40	12.7	33.5		
1919	9	A	12.60	1800		2.38.9	**************************************	1.41	12.9	87.0		
					4121	1 .00 . 1		1.11	12.1	07.0		
4												
***************************************												
***************************************												
CA	6.4	011	-10		11	70						
OH	1	rce			l	U	****					
									-			
onstituents	Sample	1			Containe	r			Number		Preserva	tive
	(	GRO		<b>k</b> 9		VOA					Н	CL
		and MTBE	*			VOA		_		_	Н	CL
D=5		AL LEAD	MRSENAL			POLY				_	Н	103
	CYM	4			-	GUAS	5	-			U	N
Ox	CYP	4				Com		_				M
						,		-				
								-				
No.		Name of the same o						_				
Bayer - Commercial					-							
	<b>olumes</b> 1" = 0.04 1.25" = 0.06	1.		2 5" = 0.26 3" = 0.37		.5" = 0.50 (c) " = 0.65	6" = 1,47					
/ell informa	tion						=	9				
Well Locat	ion:	Park	using str	253			Well	Locked at	Arrival:	Yes	1	No
Condition of	Well:	Goe	D				Well Loc	ked at De	parture:	Yes	l	No
Well Comple	etion:	F	lush Mount /	Stic	ck Up			Number T	****	ucit.		GW

Project No.					Well ID	MW-7	16			Date	Page 1 4 - 7	of 1	-
Project No. Project Name	// ocation	, W	Mer		Well ID	7100		-		Weather		N	1000e
Measuring Pt			Screen	10		Casing	4 11			Well Mate		PVC	_
Description	T	<i>ن</i> د	Setting (ft-bmp)		-	Casing Diameter (in.)	4"	•		TT CII III CIC	TICL!	ss	
Static Water Level (ft-bloc)	12	.30	Total Depth (ft-bt	oc)		Water Column Gallons in We	n/	_		Initial PID Reading (p	pm) <u></u> 0.	·O	
TOC Elevatio	n -		Pump Intake (ft-t	toc)		Purge Method	t: LUW	Hon		Sample			
Pump On/Off	Roto	<u> </u>	Volumes Purgeo	_	-		Centrifugal Submersible			Method	-GP	AB.	_
Sample Time	Label	1616	Replicate/	ě	1 ,		Other	-					
	Start		Code No.		Junte					Sampled	by M	ca.	1502
	End	<del></del>		I mi									
Time	Minutes Elapsed	Rate (gpm)	Depth to Water	Galloris Purged	pН	Cond. (µMhos)	Turbidity	Dissolved Oxygen	Temp.	Redox	Appe	arance	7
		(mL/min)	(ft)	0		(mS/cm)	(NTU)	(mg/L)	(F)	(mV)	Color	Odor	1
1600	3	700	1230	100	5.85	772.2		0.10	12.1	1697	Cles_	X	4
1603				600	5.87	771.9		060	12.1	1676	<u> </u>	1	4
1606	٦	4	12.36	1800	5.88	9713		0,57	12.1	1659	1		-
16ch	<u> </u>		16.00	100	7.09	470.9	1	0:54	12.1	المحرفال	\	+	-
												1	1
										1			1
													1
													1
													-
													1
01	V	101			11.	11							1
St	M	14	6	-	10	10							1
													1
Constituents	Sample	d			Containe	r			Number		Preserva	ativo	-
	_	GRO				VOA						ICL	
		and MTB	Ę	-		VOA		-				ICL	-
Dr		AL LEAD	2	•		POLY				_		NO3	_
	CPAT		<del></del>	*		GLAS	5	-				N	-
D3			NAGEL	-		1		_		_	-	UM.	_
was a second sec			31972.5									_	
				_						_			
				_	-			_		_			
				-				_		_			
Well Casing	Volumes	\$											
Gallons/Foot	1" = 0.04 1.25" = 0.0	1	1.5" = 0.09 2" = 0.16	2.5" = 0.2 3" = 0.37		3 5" = 0 50 1" = 0.65	6" = 1.47						
NAMES AND ADDRESS OF		vv 2	0.10	J - U.SI	4	CV.V - 1							
Well Inform			26/=									(1)	7
Well Loca			DE1500	771	-UT			Locked a		Yes		No	-
Condition o		Titolono Contraction Contracti	3E Y7		ale I t-			cked at De	2	Yes	<u> </u>	(No	Al was seen
Well Comp	ietion:		Flush Mount	/ Sti	ck Up	×	Key	Number	10 Well:				47259943

											Page 1	of 1
Project No.				-	Well ID	_ Min	- 26			Date	4-27	2
Project Name	e/Location	L	(C MET	PO						Weather	SUN	THI
Measuring Pt Description		UC_	Screen Setting (ft-bmp)	_		Casing Diameter (in.)	411			Well Mate	erial	PVC
Static Water Level (ft-btoc)	_11.	90	Total Depth (ft-bi	oc)		Water Colum Gallons in W				Initial PID Reading (p	(mg)	0
TOC Elevation	n		Pump Intake (ft-	otoc)		Purge Metho	d: (4)	Erm	)	Sample		
Pump On/Off	1515	11535	Volumes Purger	d	_		Centrifugal Submersible			Method	GRI	<del>3</del> 3
Sample Time	Start End		Replicate/ Code No.		en (6	-	Other			Sampled	by M	c Guma
Time	Minutes Elapsed	Rate (gpm)	Depth to Water	Gallons Purged	рH	Cond. (µMhos)	Turbidity	Dissolved Oxygen	Temp.	Redox		arance
1515	2	(mL/min)	(ft)	O	5.62	431.9	(NTU)	(mg/L)	(°F) 11. ⊌	(mV)	Color	Odor
1518	3	100		100	5.5-1	730.2	-	1.53	11.8	193.7	Clein	X
1521	6				5, 34	730.0		1.50	11.9	92.7	1	<del>  ',    </del>
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	CPA	-	161111	-		GLA	55 250			-	HN V	
NA	PTH			•		gen	- CS .		-	•		M
				•						•		
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				•				•		•		
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W. III &								•				
	folumes 1" = 0.04 1 25" = 0.06		5" = 0.09 ' = 0.16	2.5" = 0.2 3" = 0.37		3.5° = 0.50 3" = 0.65	6" = 1.47			80		
Well Informa	ition									8		
Well Loca		S EN	0150	ot			Well L	ocked at	Arrival:	Yes	-	(No)
Condition of	_	(700					Well Lock		_	Yes		(No)
Well Compl	letion:	-	ush Mount	Stic	ck Up			Number 7			***************************************	Case country

#### **ARCADIS**

#### Appendix B

Laboratory Analytical Reports



2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

#### ANALYTICAL RESULTS

Prepared by:

Prepared for:

Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17601 Chevron L4310 6001 Bollinger Canyon Road San Ramon CA 94583

May 07, 2013

Project: 1001327

Submittal Date: 04/25/2013 Group Number: 1385524 PO Number: 0015117901 Release Number: HARMON State of Sample Origin: WA

Client Sample Description	Lancaster Labs (LLI) #
MW-19 Grab Water	7034517
MW-19 Filtered Grab Water	7034518
MW-20 Grab Water	7034519
MW-20 Filtered Grab Water	7034520
AGI-2 Grab Water	7034521
AGI-2 Filtered Grab Water	7034522
MW-8A Grab Water	7034523
MW-8A Filtered Grab Water	7034524
MW-25 Grab Water	7034525
MW-25 Filtered Grab Water	7034526
MW-26 Grab Water	7034527
MW-26 Filtered Grab Water	7034528
MW-4 Grab Water	7034529
MW-4 Filtered Grab Water	7034530
MW-7 Grab Water	7034531
MW-7 Filtered Grab Water	7034532
MLU-1 Grab Water	7034533
MLU-1 Filtered Grab Water	7034534
MW-21 Grab Water	7034535
MW-21 Filtered Grab Water	7034536
DUP-1 Grab Water	7034537
DUP-1 Filtered Grab Water	7034538
TRIP BLANK NA Water	7034539

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

ELECTRONIC Arcadis Attn: Scott Zorn



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COPY TO
ELECTRONIC Are
COPY TO

Arcadis

Attn: Alan Kahal

Respectfully Submitted,

Jill M. Parker Senior Specialist

(717) 556-7262



2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: MW-19 Grab Water

Facility# 1001327

1602 N Northlake Way - Seattle, WA

LLI Sample # WW 7034517

LLI Group # 1385524

Account # 11964

Project Name: 1001327

Submitted: 04/25/2013 09:30

Reported: 05/07/2013 20:52

Collected: 04/24/2013 08:00 by SM Chevron

L4310

6001 Bollinger Canyon Road

San Ramon CA 94583

NW19-

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Semivolatiles S	SW-846	8270C SIM	ug/l	ug/l	
08357	Benzo(a)anthracene		56-55-3	N.D.	0.010	1
08357	Benzo(a)pyrene		50-32-8	N.D.	0.010	1
08357	Benzo(b)fluoranthene		205-99-2	N.D.	0.010	1
08357	Benzo(k) fluoranthene		207-08-9	N.D.	0.010	1
08357	Chrysene		218-01-9	N.D.	0.010	1
08357	Dibenz(a,h)anthracene		53-70-3	N.D.	0.010	1
08357	Indeno(1,2,3-cd)pyrene		193-39-5	N.D.	0.010	1
GC Vol	latiles S	SW-846	8021B	ug/l	ug/l	
02102	Benzene		71-43-2	N.D.	0.5	1
02102	Ethylbenzene		100-41-4	N.D.	0.5	1
02102	Toluene		108-88-3	N.D.	0.5	1

#### General Sample Comments

State of Washington Lab Certification No. C259 Carcinogenic PAHs have been reported for this sample

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 Ti	.me	Analyst	Dilution Factor
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13117WAC026	05/05/2013	04:25	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13117WAC026	04/28/2013	07:20	Katheryne V Sponheimer	1
02102	Method 8021 Water Master	SW-846 8021B	1	13115B53A	04/26/2013	23:45	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13115B53A	04/26/2013	23:45	Catherine J Schwarz	1



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Sample Description: MW-19 Filtered Grab Water

Facility# 1001327

1602 N Northlake Way - Seattle, WA

LLI Sample # WW 7034518

LLI Group # 1385524 Account # 11964

Project Name: 1001327

Submitted: 04/25/2013 09:30

Reported: 05/07/2013 20:52

Collected: 04/24/2013 08:00 by SM Chevron

L4310

6001 Bollinger Canyon Road

San Ramon CA 94583

NW19F

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Semivolatiles SW-846	8270C SIM	ug/l	ug/l	
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	1
08357	Chrysene	218-01-9	N.D.	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	1
08357	Naphthalene	91-20-3	N.D.	0.030	1
Metal	s Dissolved SW-846	6020	ug/l	ug/l	
06025	Arsenic	7440-38-2	0.42	0.42	1
06035	Lead	7439-92-1	0.13	0.073	1

#### General Sample Comments

State of Washington Lab Certification No. C259 This sample was field filtered for dissolved cPAHs, lead and arsenic. Carcinogenic PAHs have been reported for this sample

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 Ti	me	Analyst	Dilution Factor
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13117WAC026	05/05/2013	04:54	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13117WAC026	04/28/2013	07:20	Katheryne V Sponheimer	1
06025	Arsenic	SW-846 6020	1	131196050004A	05/01/2013	11:44	David K Beck	1
06035	Lead	SW-846 6020	1	131196050004A	05/01/2013	11:44	David K Beck	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	131196050004	04/30/2013	08:20	James L Mertz	1



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Sample Description: MW-20 Grab Water

Facility# 1001327

1602 N Northlake Way - Seattle, WA

LLI Sample # WW 7034519

LLI Group # 1385524 Account # 11964

Project Name: 1001327

Submitted: 04/25/2013 09:30

Reported: 05/07/2013 20:52

Collected: 04/23/2013 13:30 by SM Chevron

L4310

6001 Bollinger Canyon Road

San Ramon CA 94583

NW20-

CAT No.	Analysis Name	CAS Numbe	As Received r Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Semivolatiles SW-8	46 8270C SIM	ug/l	ug/l	
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	1
08357	Chrysene	218-01-9	N.D.	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	1
GC Vol	latiles SW-8	46 8021B	ug/l	ug/l	
02102	Benzene	71-43-2	N.D.	0.5	1
02102	Ethylbenzene	100-41-4	N.D.	0.5	1
02102	Toluene	108-88-3	N.D.	0.5	1

#### General Sample Comments

State of Washington Lab Certification No. C259 Carcinogenic PAHs have been reported for this sample

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 Ti	.me	Analyst	Dilution Factor
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13116WAC026	05/06/2013	23:37	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13116WAC026	04/27/2013	09:30	Seth A Farrier	1
02102	Method 8021 Water Master	SW-846 8021B	1	13115B53A	04/27/2013	00:12	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13115B53A	04/27/2013	00:12	Catherine J Schwarz	1



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Sample Description: MW-20 Filtered Grab Water

Facility# 1001327

1602 N Northlake Way - Seattle, WA

LLI Sample # WW 7034520

LLI Group # 1385524 Account # 11964

Project Name: 1001327

Submitted: 04/25/2013 09:30

Reported: 05/07/2013 20:52

Collected: 04/23/2013 13:30 by SM Chevron

L4310

6001 Bollinger Canyon Road

San Ramon CA 94583

#### NW20F

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Semivolatiles SW-846	8270C SIM	ug/l	ug/l	
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	1
08357	Chrysene	218-01-9	N.D.	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	1
08357	1-Methylnaphthalene	90-12-0	0.014	0.010	1
08357	2-Methylnaphthalene	91-57-6	0.019	0.010	1
08357	Naphthalene	91-20-3	0.039	0.031	1
Metals	s Dissolved SW-846	6020	ug/l	ug/l	
06025	Arsenic	7440-38-2	1.4	0.42	1
06035	Lead	7439-92-1	N.D.	0.073	1

#### General Sample Comments

State of Washington Lab Certification No. C259 This sample was field filtered for dissolved cPAHs, lead and arsenic. Carcinogenic PAHs have been reported for this sample

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

			_	_				
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Ti	me	Analyst	Dilution Factor
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13116WAC026	05/07/2013	00:06	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13116WAC026	04/27/2013	09:30	Seth A Farrier	1
06025	Arsenic	SW-846 6020	1	131196050004A	05/01/2013	11:46	David K Beck	1
06035	Lead	SW-846 6020	1	131196050004A	05/01/2013	11:46	David K Beck	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	131196050004	04/30/2013	08:20	James L Mertz	1



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Sample Description: AGI-2 Grab Water

Facility# 1001327

1602 N Northlake Way - Seattle, WA

LLI Sample # WW 7034521

LLI Group # 1385524 Account # 11964

Project Name: 1001327

Submitted: 04/25/2013 09:30

Reported: 05/07/2013 20:52

Collected: 04/23/2013 11:10 by SM Chevron

L4310

6001 Bollinger Canyon Road

San Ramon CA 94583

#### NWAG2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Semivolatiles SW-846	8270C SIM	ug/l	ug/l	
08357	Benzo(a)anthracene	56-55-3	0.015	0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	1
08357	Chrysene	218-01-9	0.015	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	1
GC Vol	latiles SW-846	8021B	ug/l	ug/l	
02102	Benzene	71-43-2	5.1	0.5	1
02102	Ethylbenzene	100-41-4	5.9	0.5	1
02102	Toluene	108-88-3	1.1	0.5	1

#### General Sample Comments

State of Washington Lab Certification No. C259 Carcinogenic PAHs have been reported for this sample

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

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Ti	me	Analyst	Dilution Factor
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13116WAC026	05/07/2013	00:36	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13116WAC026	04/27/2013	09:30	Seth A Farrier	1
02102	Method 8021 Water Master	SW-846 8021B	1	13115B53A	04/27/2013	00:38	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13115B53A	04/27/2013	00:38	Catherine J Schwarz	1



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Sample Description: AGI-2 Filtered Grab Water

Facility# 1001327

1602 N Northlake Way - Seattle, WA

LLI Sample # WW 7034522

LLI Group # 1385524 Account # 11964

Project Name: 1001327

Submitted: 04/25/2013 09:30

Reported: 05/07/2013 20:52

Collected: 04/23/2013 11:10 by SM Chevron

L4310

6001 Bollinger Canyon Road

San Ramon CA 94583

#### NWA2F

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Semivolatiles SV	W-846	8270C SIM	ug/l	ug/l	
08357	Benzo(a)anthracene		56-55-3	N.D.	0.010	1
08357	Benzo(a)pyrene		50-32-8	N.D.	0.010	1
08357	Benzo(b)fluoranthene		205-99-2	N.D.	0.010	1
08357	Benzo(k)fluoranthene		207-08-9	N.D.	0.010	1
08357	Chrysene		218-01-9	N.D.	0.010	1
08357	Dibenz(a,h)anthracene		53-70-3	N.D.	0.010	1
08357	Indeno(1,2,3-cd)pyrene	;	193-39-5	N.D.	0.010	1
08357	1-Methylnaphthalene		90-12-0	0.37	0.010	1
08357	2-Methylnaphthalene		91-57-6	0.35	0.010	1
08357	Naphthalene		91-20-3	0.63	0.030	1
Metals	S Dissolved SV	W-846	6020	ug/l	ug/l	
06025	Arsenic		7440-38-2	10.9	0.42	1
06035	Lead		7439-92-1	N.D.	0.073	1

#### General Sample Comments

State of Washington Lab Certification No. C259 This sample was field filtered for dissolved cPAHs, lead and arsenic. Carcinogenic PAHs have been reported for this sample

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

			_	_				
CAT	Analysis Name	Method	Trial#	Batch#	Analysis		Analyst	Dilution
No.					Date and Ti	me		Factor
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13116WAC026	05/07/2013	01:05	Holly Berry	1
10470	BNA Water Extraction	SW-846 3510C	1	13116WAC026	04/27/2013	09:30	Seth A Farrier	1
	(SIM)							
06025	Arsenic	SW-846 6020	1	131196050004A	05/01/2013	10:59	David K Beck	1
06035	Lead	SW-846 6020	1	131196050004A	05/01/2013	10:59	David K Beck	1
06050	ICP/MS SW-846 Water	SW-846 3020A	1	131196050004	04/30/2013	08:20	James L Mertz	1
	Digest							



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Sample Description: MW-8A Grab Water

Facility# 1001327

1602 N Northlake Way - Seattle, WA

LLI Sample # WW 7034523 LLI Group # 1385524

Account # 11964

Project Name: 1001327

Submitted: 04/25/2013 09:30

Reported: 05/07/2013 20:52

Collected: 04/23/2013 10:20 by SM Chevron

L4310

6001 Bollinger Canyon Road

San Ramon CA 94583

#### NWM8A

CAT No.	Analysis Name	CA	S Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Semivolatiles SW-	846 8270C	SIM	ug/l	ug/l	
08357	Benzo(a)anthracene	56	-55-3	N.D.	0.010	1
08357	Benzo(a)pyrene	50	-32-8	N.D.	0.010	1
08357	Benzo(b)fluoranthene	20	5-99-2	N.D.	0.010	1
08357	Benzo(k)fluoranthene	20	7-08-9	N.D.	0.010	1
08357	Chrysene	21	8-01-9	N.D.	0.010	1
08357	Dibenz(a,h)anthracene	53	-70-3	N.D.	0.010	1
08357	Indeno(1,2,3-cd)pyrene	19	3-39-5	N.D.	0.010	1
GC Vol	latiles SW-	846 8021B		ug/l	ug/l	
02102	Benzene	71	-43-2	N.D.	0.5	1
02102	Ethylbenzene	10	0-41-4	N.D.	0.5	1
02102	Toluene	10	8-88-3	N.D.	0.5	1

#### General Sample Comments

State of Washington Lab Certification No. C259 Carcinogenic PAHs have been reported for this sample

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

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Ti	me	Analyst	Dilution Factor
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13116WAC026	05/07/2013	01:34	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13116WAC026	04/27/2013	09:30	Seth A Farrier	1
02102	Method 8021 Water Master	SW-846 8021B	1	13119A94A	04/29/2013	14:05	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13119A94A	04/29/2013	14:05	Catherine J Schwarz	1



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Sample Description: MW-8A Filtered Grab Water

Facility# 1001327

1602 N Northlake Way - Seattle, WA

LLI Sample # WW 7034524

LLI Group # 1385524 Account # 11964

Project Name: 1001327

Submitted: 04/25/2013 09:30

Reported: 05/07/2013 20:52

Collected: 04/23/2013 10:20 by SM Chevron

L4310

6001 Bollinger Canyon Road

San Ramon CA 94583

#### NW8AF

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Semivolatiles SW-8	46 8270C SIM	ug/l	ug/l	
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	1
08357	Chrysene	218-01-9	N.D.	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	1
08357	Naphthalene	91-20-3	N.D.	0.030	1
Metals	S Dissolved SW-8	46 6020	ug/l	ug/l	
06025	Arsenic	7440-38-2	N.D.	0.40	1
06035	Lead	7439-92-1	N.D.	0.047	1

#### General Sample Comments

State of Washington Lab Certification No. C259 This sample was field filtered for dissolved cPAHs, lead and arsenic. Carcinogenic PAHs have been reported for this sample Additional sample volume received on 04/26/13 for Dissolved Lead and Arsenic.

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

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tir	me	Analyst	Dilution Factor
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13116WAC026	05/07/2013	02:03	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13116WAC026	04/27/2013	09:30	Seth A Farrier	1
06025	Arsenic	SW-846 6020	1	131196050002A	05/01/2013	08:24	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131196050002A	05/01/2013	08:24	Choon Y Tian	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	131196050002	04/30/2013	08:09	James L Mertz	1



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Sample Description: MW-25 Grab Water

Facility# 1001327

1602 N Northlake Way - Seattle, WA

LLI Group # 1385524 Account # 11964

LLI Sample # WW 7034525

Project Name: 1001327

Submitted: 04/25/2013 09:30

Reported: 05/07/2013 20:52

Collected: 04/22/2013 16:10 by SM Chevron

L4310

6001 Bollinger Canyon Road

San Ramon CA 94583

NW25-

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Semivolatiles S	W-846	8270C SIM	ug/l	ug/l	
08357	Benzo(a)anthracene		56-55-3	N.D.	0.010	1
08357	Benzo(a)pyrene		50-32-8	N.D.	0.010	1
08357	Benzo(b)fluoranthene		205-99-2	N.D.	0.010	1
08357	Benzo(k)fluoranthene		207-08-9	N.D.	0.010	1
08357	Chrysene		218-01-9	N.D.	0.010	1
08357	Dibenz(a,h)anthracene		53-70-3	N.D.	0.010	1
08357	Indeno(1,2,3-cd)pyren	e	193-39-5	N.D.	0.010	1
GC Vol	latiles S	W-846	8021B	ug/l	ug/l	
02102	Benzene		71-43-2	N.D.	0.5	1
02102	Ethylbenzene		100-41-4	N.D.	0.5	1
02102	Toluene		108-88-3	N.D.	0.5	1

#### General Sample Comments

State of Washington Lab Certification No. C259 Carcinogenic PAHs have been reported for this sample

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

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Ti	me	Analyst	Dilution Factor
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13116WAC026	05/07/2013	02:33	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13116WAC026	04/27/2013	09:30	Seth A Farrier	1
02102	Method 8021 Water Master	SW-846 8021B	1	13115B53A	04/27/2013	01:05	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13115B53A	04/27/2013	01:05	Catherine J Schwarz	1



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Sample Description: MW-25 Filtered Grab Water

Facility# 1001327

1602 N Northlake Way - Seattle, WA

LLI Sample # WW 7034526

LLI Group # 1385524 Account # 11964

Project Name: 1001327

Submitted: 04/25/2013 09:30

Reported: 05/07/2013 20:52

Collected: 04/22/2013 16:10 by SM Chevron

L4310

6001 Bollinger Canyon Road

San Ramon CA 94583

NW25F

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Semivolatiles SW-846	8270C SIM	ug/l	ug/l	
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	1
08357	Chrysene	218-01-9	N.D.	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	1
08357	Naphthalene	91-20-3	N.D.	0.031	1
Metals	s Dissolved SW-846	6020	ug/l	ug/l	
06025	Arsenic	7440-38-2	0.90	0.42	1
06035	Lead	7439-92-1	N.D.	0.073	1

#### General Sample Comments

State of Washington Lab Certification No. C259 This sample was field filtered for dissolved cPAHs, lead and arsenic. Carcinogenic PAHs have been reported for this sample

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

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Ti	.me	Analyst	Dilution Factor
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13116WAC026	05/07/2013	03:02	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13116WAC026	04/27/2013	09:30	Seth A Farrier	1
06025	Arsenic	SW-846 6020	1	131196050004A	05/01/2013	11:48	David K Beck	1
06035	Lead	SW-846 6020	1	131196050004A	05/01/2013	11:48	David K Beck	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	131196050004	04/30/2013	08:20	James L Mertz	1



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Sample Description: MW-26 Grab Water

Facility# 1001327

1602 N Northlake Way - Seattle, WA

LLI Sample # WW 7034527

LLI Group # 1385524 Account # 11964

Project Name: 1001327

Submitted: 04/25/2013 09:30

Reported: 05/07/2013 20:52

Collected: 04/22/2013 15:30 by SM Chevron

L4310

6001 Bollinger Canyon Road

San Ramon CA 94583

NW26-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Semivolatiles SW-846	8270C SIM	ug/l	ug/l	
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	1
08357	Benzo(b) fluoranthene	205-99-2	N.D.	0.010	1
08357	Benzo(k) fluoranthene	207-08-9	N.D.	0.010	1
08357	Chrysene	218-01-9	N.D.	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	1
GC Vol	latiles SW-846	8021B	ug/l	ug/l	
02102	Benzene	71-43-2	N.D.	0.5	1
02102	Ethylbenzene	100-41-4	N.D.	0.5	1
02102	Toluene	108-88-3	N.D.	0.5	1

#### General Sample Comments

State of Washington Lab Certification No. C259 Carcinogenic PAHs have been reported for this sample

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

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tim	ne	Analyst	Dilution Factor
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13116WAC026	05/07/2013	03:31	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13116WAC026	04/27/2013	09:30	Seth A Farrier	1
02102	Method 8021 Water Master	SW-846 8021B	1	13115B53A	04/27/2013	01:32	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13115B53A	04/27/2013	01:32	Catherine J Schwarz	1



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Sample Description: MW-26 Filtered Grab Water

Facility# 1001327

1602 N Northlake Way - Seattle, WA

LLI Sample # WW 7034528

LLI Group # 1385524 Account # 11964

Project Name: 1001327

Submitted: 04/25/2013 09:30

Reported: 05/07/2013 20:52

Collected: 04/22/2013 15:30 by SM Chevron

L4310

6001 Bollinger Canyon Road

San Ramon CA 94583

NW26F

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Semivolatiles SW-846	8270C SIM	ug/l	ug/l	
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	1
08357	Chrysene	218-01-9	N.D.	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	1
08357	Naphthalene	91-20-3	N.D.	0.031	1
Metals	s Dissolved SW-846	6020	ug/l	ug/l	
06025	Arsenic	7440-38-2	N.D.	0.42	1
06035	Lead	7439-92-1	N.D.	0.073	1

#### General Sample Comments

State of Washington Lab Certification No. C259 This sample was field filtered for dissolved cPAHs, lead and arsenic. Carcinogenic PAHs have been reported for this sample

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

			_	_				
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Ti	me	Analyst	Dilution Factor
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13116WAC026	05/07/2013	04:00	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13116WAC026	04/27/2013	09:30	Seth A Farrier	1
06025	Arsenic	SW-846 6020	1	131196050004A	05/01/2013	11:49	David K Beck	1
06035	Lead	SW-846 6020	1	131196050004A	05/01/2013	11:49	David K Beck	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	131196050004	04/30/2013	08:20	James L Mertz	1



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Sample Description: MW-4 Grab Water

Facility# 1001327

1602 N Northlake Way - Seattle, WA

LLI Sample # WW 7034529

LLI Group # 1385524 Account # 11964

Project Name: 1001327

Submitted: 04/25/2013 09:30

Reported: 05/07/2013 20:52

Collected: 04/22/2013 14:50 by SM Chevron

L4310

6001 Bollinger Canyon Road

San Ramon CA 94583

#### NWMW4

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Semivolatiles SW-84	8270C SIM	ug/l	ug/l	
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	1
08357	Chrysene	218-01-9	N.D.	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	1
GC Vol	Latiles SW-84	5 8021B	ug/l	ug/l	
02102	Benzene	71-43-2	N.D.	0.5	1
02102	Ethylbenzene	100-41-4	N.D.	0.5	1
02102	Toluene	108-88-3	N.D.	0.5	1

#### General Sample Comments

State of Washington Lab Certification No. C259 Carcinogenic PAHs have been reported for this sample

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

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Ti	.me	Analyst	Dilution Factor
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13116WAC026	05/07/2013	04:30	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13116WAC026	04/27/2013	09:30	Seth A Farrier	1
02102	Method 8021 Water Master	SW-846 8021B	1	13115B53A	04/27/2013	01:58	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13115B53A	04/27/2013	01:58	Catherine J Schwarz	1



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Sample Description: MW-4 Filtered Grab Water

Facility# 1001327

1602 N Northlake Way - Seattle, WA

LLI Sample # WW 7034530

LLI Group # 1385524 Account # 11964

Project Name: 1001327

Submitted: 04/25/2013 09:30

Reported: 05/07/2013 20:52

Collected: 04/22/2013 14:50 by SM Chevron

L4310

6001 Bollinger Canyon Road

San Ramon CA 94583

#### NWM4F

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Semivolatiles SW-846	8270C SIM	ug/l	ug/l	
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	1
08357	Chrysene	218-01-9	N.D.	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	1
08357	Naphthalene	91-20-3	N.D.	0.030	1
Metals	s Dissolved SW-846	6020	ug/l	ug/l	
06025	Arsenic	7440-38-2	N.D.	0.40	1
06035	Lead	7439-92-1	0.050	0.047	1

#### General Sample Comments

State of Washington Lab Certification No. C259 This sample was field filtered for dissolved cPAHs, lead and arsenic. Carcinogenic PAHs have been reported for this sample

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

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Ti	me	Analyst	Dilution Factor
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13116WAC026	05/07/2013	04:59	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13116WAC026	04/27/2013	09:30	Seth A Farrier	1
06025	Arsenic	SW-846 6020	1	131206050002A	05/02/2013	04:28	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131206050002A	05/02/2013	04:28	Choon Y Tian	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	131206050002	05/01/2013	12:00	James L Mertz	1



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Sample Description: MW-7 Grab Water

Facility# 1001327

1602 N Northlake Way - Seattle, WA

LLI Sample # WW 7034531

LLI Group # 1385524 Account # 11964

Project Name: 1001327

Submitted: 04/25/2013 09:30

Reported: 05/07/2013 20:52

Collected: 04/22/2013 14:10 by SM Chevron

L4310

6001 Bollinger Canyon Road

San Ramon CA 94583

#### NWMW7

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Semivolatiles SW	-846	8270C SIM	ug/l	ug/l	
08357	Benzo(a)anthracene		56-55-3	0.019	0.010	1
08357	Benzo(a)pyrene		50-32-8	N.D.	0.010	1
08357	Benzo(b)fluoranthene		205-99-2	0.011	0.010	1
08357	Benzo(k)fluoranthene		207-08-9	N.D.	0.010	1
08357	Chrysene		218-01-9	N.D.	0.010	1
08357	Dibenz(a,h)anthracene		53-70-3	0.012	0.010	1
08357	Indeno(1,2,3-cd)pyrene		193-39-5	0.016	0.010	1
GC Vol	latiles SW	-846	8021B	ug/l	ug/l	
02102	Benzene		71-43-2	31	0.5	1
02102	Ethylbenzene		100-41-4	82	0.5	1
02102	Toluene		108-88-3	4.5	0.5	1

#### General Sample Comments

State of Washington Lab Certification No. C259 Carcinogenic PAHs have been reported for this sample

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

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Ti	.me	Analyst	Dilution Factor
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13116WAC026	05/07/2013	05:28	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13116WAC026	04/27/2013	09:30	Seth A Farrier	1
02102	Method 8021 Water Master	SW-846 8021B	1	13115B53A	04/27/2013	02:52	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13115B53A	04/27/2013	02:52	Catherine J Schwarz	1



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Sample Description: MW-7 Filtered Grab Water

Facility# 1001327

1602 N Northlake Way - Seattle, WA

LLI Sample # WW 7034532

LLI Group # 1385524 Account # 11964

Project Name: 1001327

Submitted: 04/25/2013 09:30

Reported: 05/07/2013 20:52

Collected: 04/22/2013 14:10 by SM Chevron

L4310

6001 Bollinger Canyon Road

San Ramon CA 94583

#### NWM7F

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Semivolatiles SW-8	346 8270C SIM	ug/l	ug/l	
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	1
08357	Chrysene	218-01-9	N.D.	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	1
08357	1-Methylnaphthalene	90-12-0	77	1.0	100
08357	2-Methylnaphthalene	91-57-6	130	1.0	100
08357	Naphthalene	91-20-3	340	3.0	100
Metals	s Dissolved SW-8	346 6020	ug/l	ug/l	
06025	Arsenic	7440-38-2	5.3	0.40	1
06035	Lead	7439-92-1	0.85	0.047	1

#### General Sample Comments

State of Washington Lab Certification No. C259 This sample was field filtered for dissolved cPAHs, lead and arsenic. Carcinogenic PAHs have been reported for this sample

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

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Ti	me	Analyst	Dilution Factor
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13116WAC026	05/07/2013	05:57	Holly Berry	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13116WAC026	05/07/2013	12:06	Joseph M Gambler	100
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13116WAC026	04/27/2013	09:30	Seth A Farrier	1
06025	Arsenic	SW-846 6020	1	131206050002A	05/02/2013	04:30	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131206050002A	05/02/2013	04:30	Choon Y Tian	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	131206050002	05/01/2013	12:00	James L Mertz	1



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Sample Description: MLU-1 Grab Water

Facility# 1001327

1602 N Northlake Way - Seattle, WA

LLI Sample # WW 7034533

LLI Group # 1385524 Account # 11964

Project Name: 1001327

Submitted: 04/25/2013 09:30

Reported: 05/07/2013 20:52

Collected: 04/22/2013 13:30 by SM Chevron

L4310

6001 Bollinger Canyon Road

San Ramon CA 94583

#### NWML1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Semivolatiles SW-84	8270C SIM	ug/l	ug/l	
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	1
08357	Chrysene	218-01-9	N.D.	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	1
GC Vol	Latiles SW-84	5 8021B	ug/l	ug/l	
02102	Benzene	71-43-2	N.D.	0.5	1
02102	Ethylbenzene	100-41-4	N.D.	0.5	1
02102	Toluene	108-88-3	N.D.	0.5	1

#### General Sample Comments

State of Washington Lab Certification No. C259 Carcinogenic PAHs have been reported for this sample

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

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Ti	me	Analyst	Dilution Factor
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13116WAC026	05/07/2013	06:27	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13116WAC026	04/27/2013	09:30	Seth A Farrier	1
02102	Method 8021 Water Master	SW-846 8021B	1	13115B53A	04/27/2013	02:25	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13115B53A	04/27/2013	02:25	Catherine J Schwarz	1



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Sample Description: MLU-1 Filtered Grab Water

Facility# 1001327

1602 N Northlake Way - Seattle, WA

LLI Sample # WW 7034534

LLI Group # 1385524 Account # 11964

Project Name: 1001327

Submitted: 04/25/2013 09:30

Reported: 05/07/2013 20:52

Collected: 04/22/2013 13:30 by SM Chevron

L4310

6001 Bollinger Canyon Road

San Ramon CA 94583

#### NWL1F

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Semivolatiles SW-84	6 8270C SIM	ug/l	ug/l	
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	1
08357	Benzo(b) fluoranthene	205-99-2	N.D.	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	1
08357	Chrysene	218-01-9	N.D.	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	1
08357	Naphthalene	91-20-3	N.D.	0.030	1
Metals	s Dissolved SW-84	6 6020	ug/l	ug/l	
06025	Arsenic	7440-38-2	N.D.	0.40	1
06035	Lead	7439-92-1	0.097	0.047	1

#### General Sample Comments

State of Washington Lab Certification No. C259 This sample was field filtered for dissolved cPAHs, lead and arsenic. Carcinogenic PAHs have been reported for this sample

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

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Ti	me	Analyst	Dilution Factor
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13116WAC026	05/07/2013	09:38	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13116WAC026	04/27/2013	09:30	Seth A Farrier	1
06025	Arsenic	SW-846 6020	1	131206050002A	05/02/2013	04:35	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131206050002A	05/02/2013	04:35	Choon Y Tian	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	131206050002	05/01/2013	12:00	James L Mertz	1



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Sample Description: MW-21 Grab Water

Facility# 1001327

1602 N Northlake Way - Seattle, WA

LLI Sample # WW 7034535

LLI Group # 1385524 Account # 11964

Project Name: 1001327

Submitted: 04/25/2013 09:30

Reported: 05/07/2013 20:52

Collected: 04/23/2013 14:20 by SM Chevron

L4310

6001 Bollinger Canyon Road

San Ramon CA 94583

#### NW21-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Semivolatiles SW-84	6 8270C SIM	ug/l	ug/l	
08357	Benzo(a) anthracene	56-55-3	N.D.	0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	1
08357	Chrysene	218-01-9 N.D. 0.010		0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	1
GC Vol	latiles SW-84	16 8021B	ug/l	ug/l	
02102	Benzene	71-43-2	11	0.5	1
02102	Ethylbenzene	100-41-4	0.9	0.5	1
02102	Toluene	108-88-3	0.8	0.5	1

#### General Sample Comments

State of Washington Lab Certification No. C259 Carcinogenic PAHs have been reported for this sample

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

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tim	ne	Analyst	Dilution Factor
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13116WAC026	05/07/2013	10:08	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13116WAC026	04/27/2013	09:30	Seth A Farrier	1
02102	Method 8021 Water Master	SW-846 8021B	1	13119A94A	04/29/2013	14:30	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13119A94A	04/29/2013	14:30	Catherine J Schwarz	1



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Sample Description: MW-21 Filtered Grab Water

Facility# 1001327

1602 N Northlake Way - Seattle, WA

LLI Sample # WW 7034536

LLI Group # 1385524

Account # 11964

Project Name: 1001327

Submitted: 04/25/2013 09:30

Reported: 05/07/2013 20:52

Collected: 04/23/2013 14:20 by SM Chevron

L4310

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San Ramon CA 94583

NW21F

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Semivolatiles SW-846	8270C SIM	ug/l	ug/l	
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	1
08357	Chrysene	218-01-9	N.D.	0.011	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	1
08357	1-Methylnaphthalene	90-12-0	89	0.21	20
08357	2-Methylnaphthalene	91-57-6	24	0.21	20
08357	Naphthalene	91-20-3	1.3	0.032	1
Metals	s Dissolved SW-846	6020	ug/l	ug/l	
06025	Arsenic	7440-38-2	11.6	0.40	1
06035	Lead	7439-92-1	N.D.	0.047	1

#### General Sample Comments

State of Washington Lab Certification No. C259 This sample was field filtered for dissolved cPAHs, lead and arsenic. Carcinogenic PAHs have been reported for this sample

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

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Ti	me	Analyst	Dilution Factor
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13116WAC026	05/07/2013	10:37	Joseph M Gambler	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13116WAC026	05/07/2013	12:36	Joseph M Gambler	20
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13116WAC026	04/27/2013	09:30	Seth A Farrier	1
06025	Arsenic	SW-846 6020	1	131206050002A	05/02/2013	04:37	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131206050002A	05/02/2013	04:37	Choon Y Tian	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	131206050002	05/01/2013	12:00	James L Mertz	1



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Sample Description: DUP-1 Grab Water

Facility# 1001327

1602 N Northlake Way - Seattle, WA

LLI Sample # WW 7034537

LLI Group # 1385524 Account # 11964

Project Name: 1001327

Submitted: 04/25/2013 09:30

Reported: 05/07/2013 20:52

Collected: 04/23/2013 by SM Chevron

L4310

6001 Bollinger Canyon Road

San Ramon CA 94583

### NWDU1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Semivolatiles SW-8	46 8270C SIM	ug/l	ug/l	
08357	Benzo(a)anthracene	56-55-3	0.015	0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	1
08357	Chrysene	218-01-9	0.013	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	1
GC Vo	latiles SW-8	46 8021B	ug/l	ug/l	
02102	Benzene	71-43-2	4.2	0.5	1
02102	Ethylbenzene	100-41-4	3.9	0.5	1
02102	Toluene	108-88-3	1.4	0.5	1

#### General Sample Comments

State of Washington Lab Certification No. C259 Carcinogenic PAHs have been reported for this sample

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

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Ti	me	Analyst	Dilution Factor
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13116WAC026	05/07/2013	11:07	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13116WAC026	04/27/2013	09:30	Seth A Farrier	1
02102	Method 8021 Water Master	SW-846 8021B	1	13119A94A	04/29/2013	14:55	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13119A94A	04/29/2013	14:55	Catherine J Schwarz	1



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Sample Description: DUP-1 Filtered Grab Water

Facility# 1001327

1602 N Northlake Way - Seattle, WA

LLI Sample # WW 7034538

LLI Group # 1385524 Account # 11964

Project Name: 1001327

Submitted: 04/25/2013 09:30

Reported: 05/07/2013 20:52

Collected: 04/23/2013 by SM Chevron

L4310

6001 Bollinger Canyon Road

San Ramon CA 94583

#### NWD1F

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Semivolatiles SW-846	8270C SIM	ug/l	ug/l	
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	1
08357	Chrysene	218-01-9	N.D.	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	1
08357	1-Methylnaphthalene	90-12-0	0.31	0.010	1
08357	2-Methylnaphthalene	91-57-6	0.25	0.010	1
08357	Naphthalene	91-20-3	0.60	0.030	1
36.1.3.	- D' 1	6000	/1	/1	
Metals	s Dissolved SW-846	6020	ug/l	ug/l	
06025	Arsenic	7440-38-2	11.6	0.40	1
06035	Lead	7439-92-1	N.D.	0.047	1

#### General Sample Comments

State of Washington Lab Certification No. C259 This sample was field filtered for dissolved cPAHs, lead and arsenic. Carcinogenic PAHs have been reported for this sample Additional sample volume received on 04/26/13 for Dissolved Lead and Arsenic.

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

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13116WAC026	05/07/2013 11	1:37	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13116WAC026	04/27/2013 09	9:30	Seth A Farrier	1
06025	Arsenic	SW-846 6020	1	131196050002A	05/01/2013 08	8:42	Choon Y Tian	1
06035	Lead	SW-846 6020	1	131196050002A	05/01/2013 08	8:42	Choon Y Tian	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	131196050002	04/30/2013 08	8:09	James L Mertz	1



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Sample Description: TRIP BLANK NA Water

Facility# 1001327

1602 N Northlake Way - Seattle, WA

LLI Sample # WW 7034539

LLI Group # 1385524 Account # 11964

Project Name: 1001327

Collected: 04/22/2013 Chevron

L4310

Submitted: 04/25/2013 09:30 6001 Bollinger Canyon Road

Reported: 05/07/2013 20:52 San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Vo	latiles	SW-846 8021B	ug/l	ug/l	
02102	Benzene	71-43-2	N.D.	0.5	1
02102	Ethylbenzene	100-41-4	N.D.	0.5	1
02102	Toluene	108-88-3	N.D.	0.5	1

#### General Sample Comments

State of Washington Lab Certification No. C259

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

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Ti	me	Analyst	Dilution Factor
02102	Method 8021 Water Master	SW-846 8021B	1	13115B53A	04/26/2013	15:47	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	13115B53A	04/26/2013	15:47	Catherine J	1



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#### Quality Control Summary

Client Name: Chevron Group Number: 1385524

Reported: 05/07/13 at 08:52 PM

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.

#### Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS <u>%REC</u>	LCSD <u>%REC</u>	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: 13116WAC026	Sample n	number(s): 70	34519-7034	1538				
Benzo(a)anthracene	N.D.	0.010	uq/l	101	87	75-115	15	30
Benzo(a)pyrene	N.D.	0.010	ug/l	100	88	72-120	12	30
Benzo(b) fluoranthene	N.D.	0.010	ug/l	104	97	74-130	7	30
Benzo(k)fluoranthene	N.D.	0.010	ug/1	107	90	74-118	18	30
Chrysene	N.D.	0.010	ug/l	105	93	75-112	13	30
Dibenz (a, h) anthracene	N.D.	0.010	ug/l	104	85	66-122	20	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	ug/1	103	85	66-122	20	30
1-Methylnaphthalene	N.D.	0.010	ug/1	113	100	72-114	12	30
2-Methylnaphthalene		0.010	J.,	110	96	74-114	14	30
	N.D.		ug/l					
Naphthalene	N.D.	0.030	ug/l	108	95	67-118	13	30
Batch number: 13117WAC026	Sample n	number(s): 70	34517-7034	1518				
Benzo(a)anthracene	N.D.	0.010	ug/l	99	101	75-115	2	30
Benzo(a)pyrene	N.D.	0.010	ug/l	98	100	72-120	2	30
Benzo(b)fluoranthene	N.D.	0.010	ug/l	109	112	74-130	2	30
Benzo(k)fluoranthene	N.D.	0.010	uq/l	103	104	74-118	1	30
Chrysene	N.D.	0.010	ug/1	102	104	75-112	2	30
Dibenz (a, h) anthracene	N.D.	0.010	ug/l	91	97	66-122	7	30
Indeno (1,2,3-cd) pyrene	N.D.	0.010	ug/1	94	98	66-122	4	30
1-Methylnaphthalene	N.D.	0.010	ug/1	110	111	72-114	1	30
2-Methylnaphthalene	N.D.	0.010	ug/1	106	108	74-119	1	30
Naphthalene				104	105		1	30
мариспатене	N.D.	0.030	ug/l	104	105	67-118	1	30
Batch number: 13115B53A		number(s): 7034519,7034	521,703452	25,703452	7.7034529.	7034531,7034	533,703	4539
Benzene	N.D.	0.5	uq/l	103	104	80-120	2	30
Ethylbenzene	N.D.	0.5	uq/l	105	106	80-120	1	30
Toluene	N.D.	0.5	ug/1	102	105	80-120	2	30
TOTAGIIC	11.2.	0.5	ug/ I	102	103	00 120	-	30
Batch number: 13119A94A		number(s): 70						
Benzene	N.D.	0.5	ug/l	108	106	80-120	2	30
Ethylbenzene	N.D.	0.5	ug/l	104	103	80-120	2	30
Toluene	N.D.	0.5	ug/l	107	105	80-120	2	30
Batch number: 131196050002A	Sample r	number(s): 70	34524.7034	1538				
Arsenic	N.D.	0.40	uq/l	108		80-120		
Lead	N.D.	0.047	ug/1	104		90-115		
nead	11.15.	0.047	ug/ I	104		50 115		
Batch number: 131196050004A		number(s): 70			522,703452			
Arsenic	N.D.	0.42	ug/l	107		80-120		
Lead	N.D.	0.073	ug/l	104		90-115		
Batch number: 131206050002A	Sample n	number(s): 70	34530,7034	1532,7034	534,703453	36		

#### \*- 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.

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#### Quality Control Summary

Client Name: Chevron Group Number: 1385524

Reported: 05/07/13 at 08:52 PM

Blank Report LCSD LCS/LCSD MDL %REC <u>Units</u> %REC **Limits** RPD RPD Max Analysis Name Result 0.40 ug/l 80-120 Arsenic 99 N.D. Lead 0.047 90-115 N.D. uq/l

#### Sample Matrix Quality Control

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

Analysis Name	MS <u>%REC</u>	MSD <u>%REC</u>	MS/MSD <u>Limits</u>	<u>RPD</u>	RPD <u>MAX</u>	BKG <u>Conc</u>	DUP <u>Conc</u>	DUP <u>RPD</u>	Dup RPD Max
Batch number: 131196050002A	Sample	number(s)	: 7034524	,703453	38 UNSP	K: P032283	BKG: P032283	3	
Arsenic	104	94	75-125	4	20	15.5	13.9	11	20
Lead	105	105	83-120	1	20	0.26	0.24	10 (1)	20
Batch number: 131196050004A	Sample 7034522		: 7034518	,703452	20,7034	522,7034526	,7034528 UNS	SPK: 7034522	BKG:
Arsenic	71*	102	75-125	16	20	10.9	11.0	1	20
Lead	104	106	83-120	3	20	N.D.	N.D.	0 (1)	20
Batch number: 131206050002A	Sample	number(s)	: 7034530	,703453	32,7034	534,7034536	UNSPK: P034	1565 BKG: PC	34565
Arsenic	119	104	75-125	9	20	5.4	6.0	10 (1)	20
Lead	108	104	83-120	4	20	N.D.	N.D.	0 (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: PAHs in waters by SIM

Batch number: 13116WAC026

7034519 102 109 101 7034520 102 112 100	
F024F01 04 116 111	
7034521 94 116 111	
7034522 95 108 108	
7034523 105 105 99	
7034524 100 109 98	
7034525 103 110 99	
7034526 102 109 100	
7034527 106 109 101	
7034528 103 103 98	
7034529 99 104 92	
7034530 104 111 100	
7034531 100 91 106	
7034532 103 84 111	
7034533 105 106 98	
7034534 102 107 97	
7034535 117 111 100	

#### \*- 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.



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### Quality Control Summary

	Name: Chevron ed: 05/07/13 at	08:52 PM	Group Number: 1385524
7034536 7034537	102 91	112 105	Surrogate Quality Control
7034538	92	110	109
Blank	105	117	103
LCS LCSD	108 90	118 101	107 92
Limits:	64-120	62-141	58-134
Analysis Batch nu	Name: PAHs in wat mber: 13117WAC026		
	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene- d10
7034517	97	103	92
7034518	98	104	94
Blank	96	102	93
LCS LCSD	98 97	107 107	100 101
Limits:	64-120	62-141	58-134
	Name: Method 8021 mber: 13115B53A Trifluorotoluene-P	Water Master	
	Tilliuolololuelle-F		
7034517	79		
7034519 7034521	80		
7034521	80 80		
7034527	80		
7034529	80		
7034531	109		
7034533 7034539	81 81		
Blank	79		
LCS	81		
LCSD	81		
Limits:	51-120		
Analysis	Name: Method 8021	Water Master	
Batch nu	mber: 13119A94A Trifluorotoluene-P		
7034523	91		
7034535	84		
7034537	90		
Blank	90		
LCS LCSD	90 90		
Limits:	51-120		

### \*- 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.



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### Quality Control Summary

Client Name: Chevron Group Number: 1385524

Reported: 05/07/13 at 08:52 PM

<sup>\*-</sup> Outside of specification

<sup>(1)</sup> The result for one or both determinations was less than five times the LOQ.

<sup>(2)</sup> The unspiked result was more than four times the spike added.

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🔅 eurofins	Lancaster Laboratories		Acc	t.# <u>  11</u> 9	64	<u> </u>	Froup Ins	#_Fo	r Land 3 & C	caster 5 S verse si	Labo 2 4	rator _ Sar espond	ies us nple : I with ci	se onl # <u>7 (</u> ircled n	y <u>ンろ</u> umbers	ųς	<u> </u>	7-3	9		
1)	Client Informatio	n			4)	Matrix			5)			Ar	alys	ses	Requ	este	ed			SCR #:	
Facility# B0045799,00	06	WBS																Ŋ		3CR #.	
Site Address 1602 North 1 Chevron PM May Ica Ha, Consultant/Office A RCAD Consultant Project Mgr. Satt 7 Consultant Phone # 206-726-470 Sampler Seamas M	Vorthline Wi mon FEBER DES /SEATTLE DEN 03/339-222-6	4 AYDI	2ese~l	③ site	Sediment	Potable Ground NPDES Surface	☐ Air ☐	Number of Containers	r+ MTBE 8021 W 8260 Naphth	full scan	Oxygenates	H GX	РН DX ☐ Silica Gel Cleanup ☐	Total Diss. Method	эн □ маерн □	Society LEAD/ARSENFC	74H	iclad c PAH Inphalens		Results in Dry Weight J value reporting needed Must meet lowest detection limits possible for 8260 compounds 8021 MTBE Confirmation Confirm MTBE + Naphthale Confirm highest hit by 8260 Run oxy's on highe Run oxy's on all hit	ene ) est hit
② Sample Identification	1	Date	ected Time	Grab	Soil	Water	ē	Total	BTE	8260		NWTPH (	NWTPH	Lead	WAVPH	Sis	J	<u>O.s.</u>		(6) Remarks	
MW-19 MW-20 AGT-2		4-24 4-23 4-23	0800 1330 1110 1020	\ \ \ \				3 3 3 3 3	\ \ \ \							✓ ✓ ✓	✓ ✓ ✓			X PLEADE DO N ANALY TE POL XIL	CACS
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MW-7 MW-7 MLU-1		9-22 9-22 9-22	1410					788	\ \ \ \							777	\ \ \ \			Acid Altered	ع
NW-21 DUP-1 TRIP BLAYL	(	1-23 1-23 -	1420	V V 				82	V V							ンソ	<u>\</u>			MW-21 collection IS1430, not 1420,	time pers
7 Turnaround Tim	ne Requested (TAT)	(please c 4 day	ircle)	Relinguist Jeanu	ned by	efaire		<u> </u>	Date 4-	24	-13	Time	00		Receiv	ed by			<u> </u>	Date Time	9
72 hour	48 hour	24 hour		Relinquish				\	Date			Time			Receiv					/ Date Time	
B Data Package (	Options (please cir			UPS	S	oy Commeri Fe perature U	edEx	<u>: &gt;</u>	$\leq$		ner _	, h.	°C		Recen	U	n	LAAA /	ct?	Date Time Yes	\ <u>\</u>

# Chevron Northwest Region Analysis Request/Chain of Custody

🔅 eurofins	Lancaster Laboratories		Acct	# <u>(</u>	196	<u>, 4</u>		Group In	F¢ # structio	or Lan 58 ns on re	caste 55 verse s	r Labo J ide corr	Sar espond	ies us mple i I with ci	e only # ircled no	y 10 umbers.	340	51	7 -	39				
1)	Client Information	1		1	(4	)	Matrix	(		5)			Ar	alys	ses F	Requ	ieste	d			SCB	#:		
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Type I - Full Type VI (Raw Data)					Ter	npe	erature	Upo	n Re	ceipt	7	$\overline{C}$		°C		Cı	ustod	y Sea	als Int	act?		Yes	)	No



### **Explanation of Symbols and Abbreviations**

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

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
С	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
μg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	μL	microliter(s)
		pg/L	picogram/liter

- < less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- J estimated value The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

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 of gas 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.

#### U.S. EPA CLP Data Qualifiers:

### Organic Qualifiers Inorganic Qualifiers

Α	TIC is a possible aldol-condensation product	В	Value is <crdl, but="" th="" ≥idl<=""></crdl,>
В	Analyte was also detected in the blank	E	Estimated due to interference
С	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of	S	Method of standard additions (MSA) used
	the instrument		for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
Р	Concentration difference between primary and	W	Post digestion spike out of control limits
	confirmation columns >25%	*	Duplicate analysis not within control limits
U	Compound was not detected	+	Correlation coefficient for MSA < 0.995
X,Y,Z	Defined in case narrative		

Analytical test results meet all requirements of NELAC 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.

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