



**CONESTOGA-ROVERS
& ASSOCIATES**

NW1564
1420 80th Street SW, Suite A, Everett, Washington 98203
Telephone: 425-212-5100 Facsimile: 425-212-5113
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August 11, 2009

Reference No. 632322

Mr. Christopher Maurer
Washington State Department of Ecology
Northwest Regional Office
3190 160th Avenue Southeast, Suite 200
Bellevue, Washington 98008

Re: Groundwater Monitoring Report, Event of July 8, 2009
Former Chevron Service Station No. 9-9481
3190 140th Avenue Northeast
Bellevue, Washington
Agency ID No.: 52196613
VCP Project No.: NW1564

RECEIVED

AUG 18 2009
9

**DEPT OF ECOLOGY
Toxics Cleanup Program**

Dear Mr. Maurer:

Conestoga-Rovers & Associates (CRA) is submitting this quarterly groundwater monitoring report on behalf of the Chevron Environmental Management Company (Chevron) for the site referenced above (Figure 1). Blaine Tech Services, Inc. (Blaine Tech) gauged and sampled the site wells on July 8, 2009.

CURRENT QUARTER'S ACTIVITIES

Groundwater Monitoring and Sampling

Groundwater analytical results are summarized in Table 1. A *Groundwater Elevation Contour Map* is presented as Figure 2. Blaine Tech's field sampling notes and the laboratory analytical report are included as Attachments A and B, respectively.

Well Integrity Information

The following items were recorded in Blaine Tech's field notes:

- Two of two tabs on the monument for monitoring well MW-2 are broken.

PLANNED ACTIVITIES

The site is scheduled for monitoring and sampling in October 2009.

Equal
Employment
Opportunity Employer



**CONESTOGA-ROVERS
& ASSOCIATES**

August 11, 2009

Reference No. 632322

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We appreciate this opportunity to work with you on this project. If you have any questions regarding the contents of this document, please call Laura Genin at (425) 212-5114.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Laura Genin, LG

AL/cs/4
Encl.



Figure 1
Figure 2

Vicinity Map
Groundwater Elevation Contour Map

Table 1

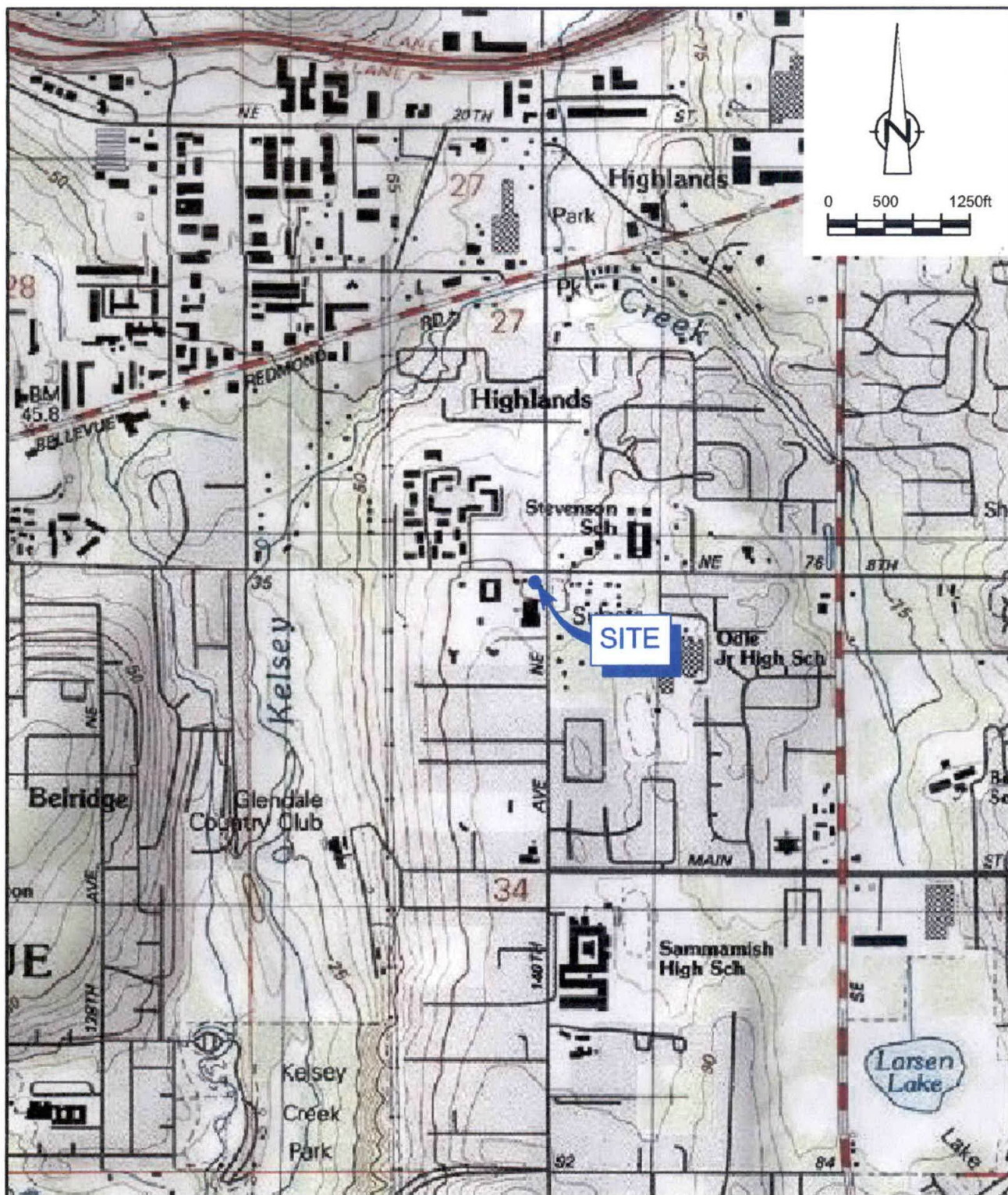
Groundwater Monitoring Event of July 8, 2009

Attachment A
Attachment B

Blaine Tech Field Sampling Notes
Lancaster Laboratory Analytical Report

c.c.: Ms. Stacie Frerichs, Chevron Environmental Management Company
Walgreens Company, Property Tax Dept. #3101

FIGURES



SOURCE: TOPOI MAPS.

Figure 1

VICINITY MAP
FORMER CHEVRON STATION 9-9481
647 140TH AVENUE NORTHEAST
Bellevue, Washington



- LEGEND**
- MW-1 ● MONITORING WELL LOCATION
 - 91.00 — GROUNDWATER ELEVATION CONTOUR, IN FEET ABOVE MEAN SEA LEVEL (MSL), DASHED WHERE INFERRED
 - (89.63) GROUNDWATER ELEVATION (MSL)
 - 0.012 → GROUNDWATER FLOW DIRECTION AND GRADIENT (ft/ft)

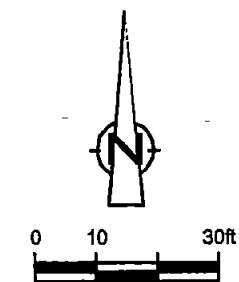
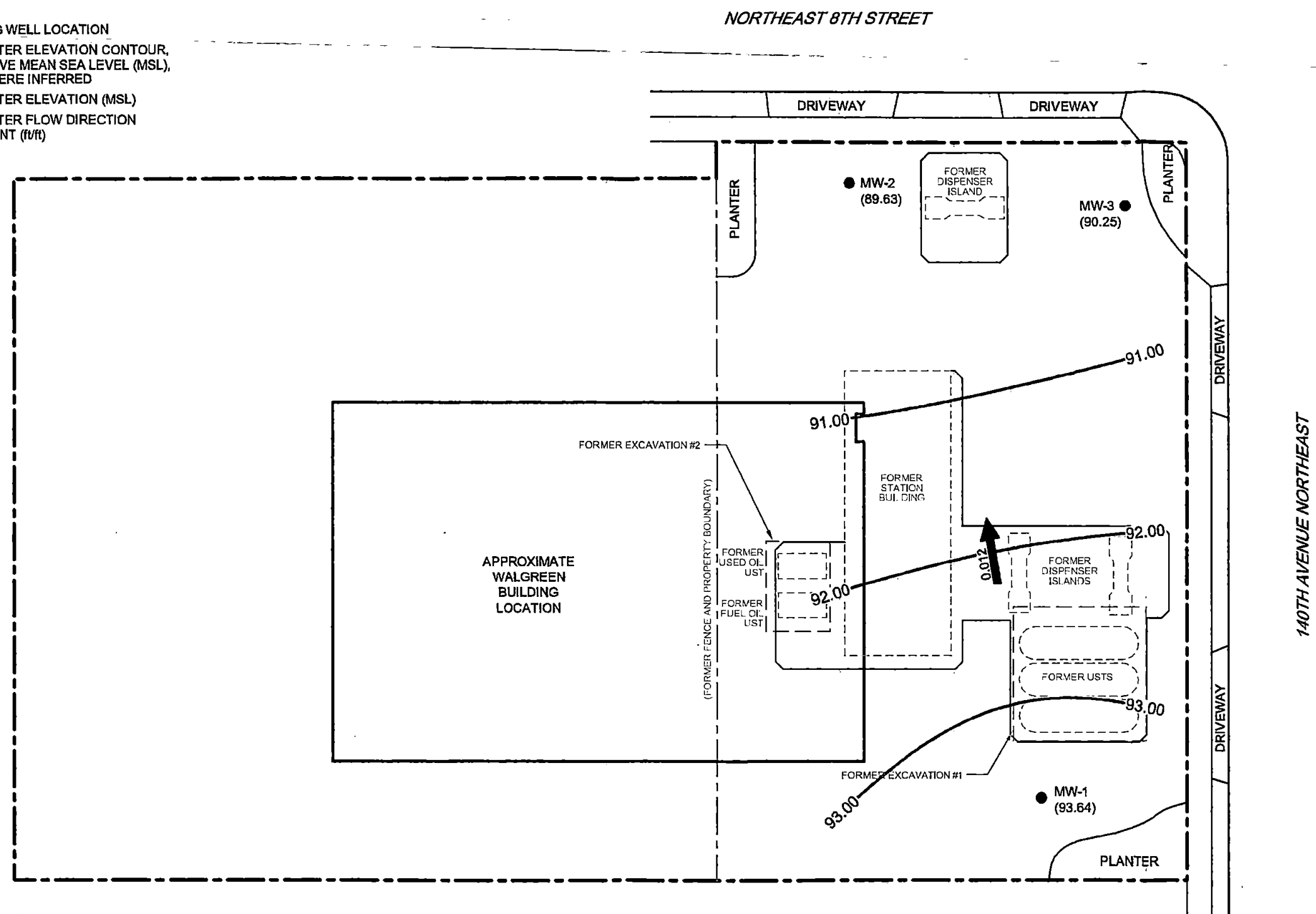


Figure 2

GROUNDWATER ELEVATION MAP
FORMER CHEVRON STATION 9-9481
647 140TH AVENUE NORTHEAST
Bellevue, Washington



BASEMAP MODIFIED FROM DRAWING PROVIDED BY SECOR

TABLES

Table 1.
Groundwater Monitoring Event of July 8, 2009
Chevron Service Station 9-9481
647 140th Ave Northeast
Bellevue, WA

Location	Date	TOC	DTP	Model Toxics Control Act Cleanup Regulations			ORP	HYDROCARBONS				PRIMARY VOCs						LEAD		
				Units	ft	ft		mg/L	TPH-G	TPH-D	TPH-O	B	T	E	X	1000	20	MTBE	Dissolved	Total
MW-1	5/30/1996	99.08	-	5.35	93.73	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	-	-	3.67	
MW-1	2/6/1997	99.08	-	4.61	94.47	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	-	-	-	
MW-1	5/7/1997	99.08	-	4.88	94.20	-	-	ND	-	-	ND	ND	ND	ND	1.54	-	-	-	-	
MW-1	8/6/1997	99.08	-	5.01	94.07	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	-	-	-	
MW-1	12/1/1997	99.08	-	4.70	94.38	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	-	-	-	
MW-1	2/9/1998	99.08	-	5.00	94.08	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	-	-	-	
MW-1	5/8/1998	99.08	-	5.25	93.83	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	-	-	-	
MW-1	8/4/1998	99.08	-	5.29	93.79	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	-	-	-	
MW-1	11/25/1998	99.08	-	4.85	94.23	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	-	-	-	
MW-1	3/25/1999	99.08	-	4.97	94.11	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	-	-	-	
MW-1	6/2/1999	99.08	-	5.22	93.86	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	-	-	-	
MW-1	3/22/2000	99.08	-	4.92	94.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-1	4/9/2001	99.08	-	5.60	93.48	-	-	<50.0	-	-	<0.500	<0.500	<0.500	<1.00	-	-	-	-	-	
MW-1	2/11/2002	99.08	-	3.71	95.37	-	-	<50	-	-	<0.50	<0.50	<0.50	<1.5	-	-	-	-	-	
MW-1	8/14/2002	99.08	-	5.14	93.94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-1	8/11/2003	99.08	-	5.54	93.54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-1	5/5/2004	99.08	-	5.55	93.53	-	-	<50	-	-	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	
MW-1	7/13/2004	99.08	-	5.42	93.66	-	-	<50	-	-	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	
MW-1	10/4/2004	99.08	-	4.73	94.35	-	-	<50	-	-	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	
MW-1	10/21/2005	99.08	-	4.18	94.90	2.1	48	<48	<80	<80	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.87	8.8	-	
MW-1	2/2/2006	99.08	-	3.39	95.69	1.9	43	<48	<80	<80	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	
MW-1	5/1/2006	99.08	-	5.33	93.75	1.8	42	<48	<82	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	
MW-1	7/27/2006	99.08	-	5.26	93.82	1.7	44	<48	<79	<98	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	
MW-1	12/11/2006	99.08	-	4.70	94.38	-	-	<50	34	<250	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	-	-	-	
MW-1	1/23/2007	99.08	-	4.76	94.32	-	-	<50	<130	<260	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	-	-	-	
MW-1	4/6/2007	99.08	-	4.90	94.18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-1	7/27/2007	99.08	-	4.70	94.38	-	-	<50	<130	<260	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	-	-	-	
MW-1	10/2/2007	99.08	-	6.22	92.86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-1	4/10/2008	99.08	-	5.20	93.88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-1	7/14/2008	99.08	-	5.39	93.69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-1	10/16/2008	99.08	-	5.35	93.73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-1	1/9/2009	99.08	-	5.10	93.98	0.82	-15.8	-	-	-	-	-	-	-	-	-	-	-	-	
MW-1	7/8/2009	99.08	-	5.44	93.64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table 1.
Groundwater Monitoring Event of July 8, 2009
Chevron Service Station 9-9481
647 140th Ave Northeast
Bellevue, WA

Location	Date	TOC	DTP	DTW	GWE	DO	ORP	HYDROCARBONS			PRIMARY VOCs					LEAD				
								TPH-G	TPH-D	TPH-O	B	T	E	X	MTBE	Dissolved	Total			
Model Toxics Control Act Cleanup Regulations								800/1000	500	500	5	1000	700	1000	20	NA	15			
	Units	ft	ft	ft	ft	mg/L	millivolts	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L			
MW-2	5/30/1996	98.63	-	8.95	89.68	-	-	496	-	-	4.09	6.28	1.24	32.9	-	-	2.67			
MW-2	2/6/1997	98.63	-	8.52	90.11	-	-	1670	-	-	10.3	16.6	16.6	75.1	-	-	-			
MW-2	5/7/1997	98.63	-	8.55	90.08	-	-	833	-	-	6.06	1.63	10.7	18.5	-	-	-			
MW-2	8/6/1997	98.63	-	8.95	89.68	-	-	528	-	-	6.84	1.27	7.83	19.5	-	-	-			
MW-2	12/1/1997	98.63	-	8.60	90.03	-	-	434	-	-	7.40	3.85	4.14	16.8	-	-	-			
MW-2	2/9/1998	98.63	-	8.80	89.83	-	-	820	-	-	11	9.30	6.55	38	-	-	-			
MW-2	5/8/1998	98.63	-	9.05	89.58	-	-	218	-	-	5.78	7.32	3.05	20.3	-	-	-			
MW-2	8/4/1998	98.63	-	9.15	89.48	-	-	255	-	-	7.82	2.38	1.62	12.3	-	-	-			
MW-2	11/25/1998	98.63	-	8.90	89.73	-	-	337	-	-	9.68	4.73	3.06	22.8	-	-	-			
MW-2	3/25/1999	98.63	-	8.71	89.92	-	-	189	-	-	11.2	ND	ND	ND	-	-	-			
MW-2	6/2/1999	98.63	-	8.97	89.66	-	-	1210	-	-	12.0	3.52	13.3	56.6	-	-	-			
MW-2	3/22/2000	98.63	-	8.65	89.98	-	-	740	-	-	8.89	7.04	6.28	57.4	-	-	-			
MW-2	4/9/2001	98.63	-	8.77	89.86	-	-	420	-	-	9.88	1.12	0.613	20.0	-	-	-			
MW-2	2/11/2002	98.63	-	8.22	90.41	-	-	260	-	-	7.1	2.1	0.65	17	-	-	-			
MW-2	8/14/2002	98.63	-	8.91	89.72	-	-	550	-	-	6.8	0.67	0.92	31	-	-	-			
MW-2	8/11/2003	98.63	-	9.20	89.43	-	-	95	-	-	3.9	<0.5	<0.5	<1.5	-	-	-			
MW-2	5/5/2004	98.63	-	9.00	89.63	-	-	160	-	-	5.1	1.8	1.0	9.0	-	-	-			
MW-2	7/13/2004	98.63	-	7.79	90.84	-	-	54	-	-	1.9	<0.5	<0.5	<1.5	-	-	-			
MW-2	10/4/2004	98.63	-	-	-	-	-	-	INACCESSIBLE									-	-	-
MW-2	10/21/2005	98.63	-	8.32	90.31	1.7	41	64	350	600	1	<0.5	<0.5	<0.5	<1.0	<0.87	11.6			
MW-2	2/2/2006	98.63	-	7.71	90.92	1.6	39	280	350	820	<0.5	<0.5	<0.5	<0.5	<0.5	-	-			
MW-2	5/1/2006	98.63	-	8.84	89.79	1.5	38	350	1400	310	4	3	3	12	<0.5	-	-			
MW-2	7/27/2006	98.63	-	8.76	89.87	1.4	37	130	860	440	3	<0.5	<0.5	2	<0.5	-	-			
MW-2	12/11/2006	98.63	-	8.64	89.99	-	-	190	100	130	9.3	0.26	0.098	0.86	<1.0	-	-			
MW-2	1/23/2007	98.63	-	8.63	90.00	-	-	250	240	<260	8.4	<1.0	<1.0	<3.0	<1.0	-	-			
MW-2	4/6/2007	98.63	-	8.67	89.96	-	-	280	170	<260	6.4	1.7	<1.0	5.0	<1.0	-	-			
MW-2	7/27/2007	98.63	-	8.61	90.02	-	-	180	200	<260	4.9	<1.0	<1.0	<2.0	<1.0	-	-			
MW-2	10/2/2007	98.63	-	10.04	88.59	-	-	110	320	<270	2.0	<1.0	<1.0	<2.0	-	-	-			
MW-2	1/9/2008	98.63	-	8.78	89.95	-	-	-	-	-	3.0	<1.0	<1.0	<2.0	-	-	-			
MW-2	7/14/2008	98.63	-	8.83	89.80	-	-	-	-	-	2	<0.5	<0.5	<0.5	-	-	-			
MW-2	10/16/2008	98.63	-	8.66	89.97	-	-	-	-	-	0.5 J	<0.5 UJ	<0.5 UJ	<0.5 UJ	-	-	-			
MW-2	1/9/2009	98.63	-	8.11	90.52	2.63	-33.1	-	-	-	6	1	2	12	-	-	-			

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Location	Date	TOC	DTP	DTW	GWE	DO	ORP	HYDROCARBONS				PRIMARY VOCs							LEAD	
								TPH-G	TPH-D	TPH-O	B	T	E	X	MTBE	Dissolved	Total			
Model Toxics Control Act Cleanup Regulations																				
Units	ft	ft	ft	ft	ft	mg/L	millivolts	800/1000	TPH-G	TPH-D	TPH-O	5	1000	700	1000	20	NA	15		
MW-2	7/8/2009	98.63	-	9.00	89.63	-	-	-	-	-	-	7	0.8 J	<0.5	7	-	-	-		
MW-3	5/30/1996	98.46	-	8.45	90.01	-	-	ND	-	-	-	5.06	ND	ND	ND	-	-	6.92		
MW-3	2/6/1997	98.46	-	8.20	90.26	-	-	213	-	-	-	5.16	0.514	ND	ND	-	-	-		
MW-3	5/7/1997	98.46	-	8.20	90.26	-	-	424	-	-	-	8.81	ND	ND	ND	-	-	-		
MW-3	8/6/1997	98.46	-	8.30	90.16	-	-	382	-	-	-	ND	ND	ND	ND	-	-	-		
MW-3	12/1/1997	98.46	-	8.15	90.31	-	-	275	-	-	-	9.76	ND	ND	ND	-	-	-		
MW-3	2/9/1998	98.46	-	8.26	90.20	-	-	501	-	-	-	17.3	1.53	ND	1.27	-	-	-		
MW-3	5/8/1998	98.46	-	8.36	90.10	-	-	254	-	-	-	13.8	ND	ND	ND	-	-	-		
MW-3	8/4/1998	98.46	-	8.39	90.07	-	-	294	-	-	-	11.1	ND	ND	ND	ND	-	-		
MW-3	11/25/1998	98.46	-	8.01	90.45	-	-	182	-	-	-	7.64	ND	ND	ND	-	-	-		
MW-3	3/25/1999	98.46	-	8.41	90.05	-	-	608	-	-	-	13.1	7.27	5.52	48.9	-	-	-		
MW-3	6/2/1999	98.46	-	8.26	90.20	-	-	440	-	-	-	22.7	ND	10.6	10.7	-	-	-		
MW-3	3/22/2000	98.46	-	7.99	90.47	-	-	170	-	-	-	11.2	ND	ND	ND	-	-	-		
MW-3	4/9/2001	98.46	-	8.19	90.27	-	-	365	-	-	-	10.8	<0.500	<0.500	2.14	-	-	-		
MW-3	2/11/2002	98.46	-	-	-	-	-	INACCESSIBLE	-	-	-	-	-	-	-	-	-	-		
MW-3	8/14/2002	98.46	-	8.45	90.01	-	-	640	-	-	-	17	<0.50	<0.50	<1.5	-	-	-		
MW-3	8/11/2003	98.46	-	-	-	-	-	INACCESSIBLE	-	-	-	-	-	-	-	-	-	-		
MW-3	5/5/2004	98.46	-	8.38	90.08	-	-	220	-	-	-	7.9	<0.5	<0.5	<1.5	-	-	-		
MW-3	7/13/2004	98.46	-	8.39	90.07	-	-	330	-	-	-	10	0.6	<0.5	<1.5	-	-	-		
MW-3	10/4/2004	98.46	-	8.39	90.07	-	-	<50	-	-	-	8.5	<0.5	<0.5	<1.5	-	-	-		
MW-3	10/21/2005	98.46	-	8.12	90.34	1.7	39	140	87	110	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.87	1.8		
MW-3	2/2/2006	98.46	-	-	-	-	-	INACCESSIBLE	-	-	-	-	-	-	-	-	-	-		
MW-3	5/1/2006	98.46	-	-	-	-	-	INACCESSIBLE	-	-	-	-	-	-	-	-	-	-		
MW-3	7/27/2006	98.46	-	8.35	90.11	1.6	38	320	<79	<99	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-		
MW-3	12/11/2006	98.46	-	7.68	90.78	-	-	170	85	130	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	-	-		
MW-3	1/23/2007	98.46	-	7.59	90.87	-	-	310	260	380	12	<1.0	<1.0	<1.0	<3.0	<1.0	-	-		
MW-3	4/6/2007	98.46	-	7.66	90.80	-	-	240	150	<270	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	-	-		
MW-3	7/27/2007	98.46	-	7.54	90.92	-	-	<50	<130	<250	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	-	-		
MW-3	10/2/2007	98.46	-	8.97	89.49	-	-	210	180	<270	<1.0	<1.0	<1.0	<1.0	<2.0	-	-	-		
MW-3	1/9/2008	98.46	-	7.69	90.77	-	-	-	-	-	<1.0	<1.0	<1.0	<1.0	<2.0	-	-	-		
MW-3	7/14/2008	98.46	-	8.20	90.26	-	-	-	-	-	-	-	-	-	-	-	-	-		
MW-3	10/16/2008	98.46	-	8.10	90.36	-	-	-	-	-	-	-	-	-	-	-	-	-		

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Bellevue, WA

Location	Date	Model Toxics Control Act Cleanup Regulations						HYDROCARBONS				PRIMARY VOCs						LEAD	
		TOC	DTP	DTW	GWE	DO	ORP	TPH-G	TPH-D	TPH-O	B	T	E	X	MTBE	Dissolved	Total		
Units		ft	ft	ft	ft	mg/L	millivolts	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L		
MW-3	1/9/2009	98.46	-	7.75	90.71	1.79	-37.8	-	-	-	-	-	-	-	-	-	-		
MW-3	7/8/2009	98.46	-	8.21	90.25	-	-	-	-	-	-	-	-	-	-	-	-		
TRIP BLANK	11/25/1998	-	-	-	-	-	-	ND	-	-	ND	ND	ND	ND	-	-	-		
TRIP BLANK	3/25/1999	-	-	-	-	-	-	ND	-	-	ND	ND	ND	ND	-	-	-		
TRIP BLANK	6/2/1999	-	-	-	-	-	-	ND	-	-	ND	ND	ND	ND	-	-	-		
TRIP BLANK	3/22/2000	-	-	-	-	-	-	ND	-	-	ND	ND	ND	ND	-	-	-		
TRIP BLANK	4/9/2001	-	-	-	-	-	-	<50.0	-	-	<0.500	<0.500	<0.500	<1.00	-	-	-		
TRIP BLANK	2/11/2002	-	-	-	-	-	-	<50	-	-	<0.50	<0.50	<0.50	<1.5	-	-	-		
TRIP BLANK	8/14/2002	-	-	-	-	-	-	<50	-	-	<0.50	<0.50	<0.50	<1.5	-	-	-		
TRIP BLANK	8/11/2003	-	-	-	-	-	-	<50	-	-	<0.5	<0.5	<0.5	<1.5	-	-	-		
TRIP BLANK	5/5/2004	-	-	-	-	-	-	<50	-	-	<0.5	<0.5	<0.5	<1.5	-	-	-		
TRIP BLANK	7/13/2004	-	-	-	-	-	-	<50	-	-	<0.5	<0.5	<0.5	<1.5	-	-	-		
TRIP BLANK	10/4/2004	-	-	-	-	-	-	<50	-	-	<0.5	<0.5	<0.5	<1.5	-	-	-		
TRIP BLANK	10/21/2005	-	-	-	-	-	-	<48	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-		
TRIP BLANK	2/2/2006	-	-	-	-	-	-	<48	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-		
TRIP BLANK	5/1/2006	-	-	-	-	-	-	<48	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-		
TRIP BLANK	7/27/2006	-	-	-	-	-	-	<48	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-		
TRIP BLANK	12/11/2006	-	-	-	-	-	-	<50	-	-	<1.0	0.31	<1.0	0.25	<1.0	-	-		
TRIP BLANK	1/23/2007	-	-	-	-	-	-	<50	-	-	<1.0	<1.0	<1.0	<3.0	<1.0	-	-		
TRIP BLANK	4/6/2007	-	-	-	-	-	-	<50	-	-	<1.0	<1.0	<1.0	<3.0	<1.0	-	-		
TRIP BLANK	7/27/2007	-	-	-	-	-	-	<50	-	-	<1.0	<1.0	<1.0	<2.0	<1.0	-	-		
TRIP BLANK	10/2/2007	-	-	-	-	-	-	<50	-	-	<1.0	<1.0	<1.0	<2.0	<1.0	-	-		
TRIP BLANK	1/9/2008	-	-	-	-	-	-	<50	-	-	<1.0	<1.0	<1.0	<2.0	<1.0	-	-		
TRIP BLANK	7/14/2008	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	-	-	-		
TRIP BLANK	10/16/2008	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	-	-	-		
TRIP BLANK	1/9/2009	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	-	-	-		
TRIP BLANK	7/8/2009	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	-	-	-		

647 140th Ave Northeast
Bellevue, WA

			PAH	cPAHs									ADDITIONAL VOCs						
Location	Date		Naphthalene	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenz(a,h)anthracene	Total cPAHs	Methanol	Ethanol	ETBE	TAME	DIPE	TBA		
	Model To	160	NA	NA	NA	NA	NA	0.1	NA	NA	0.1	NA	NA	NA	NA	NA	NA		
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L		
MW-1	5/30/1996	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MW-1	2/6/1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MW-1	5/7/1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MW-1	8/6/1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MW-1	12/1/1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MW-1	2/9/1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MW-1	5/8/1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MW-1	8/4/1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MW-1	11/25/1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MW-1	3/25/1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MW-1	6/2/1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MW-1	3/22/2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MW-1	4/9/2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MW-1	2/11/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MW-1	8/14/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MW-1	8/11/2003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MW-1	5/5/2004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MW-1	7/13/2004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MW-1	10/4/2004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MW-1	10/21/2005	<0.01	0.200	0.300	0.300	0.200	0.200	0.200	0.200	0.050	0.313	<200	<50	<0.5	<0.5	<0.5	<5		
MW-1	2/2/2006	<0.01	0.240	0.420	0.510	0.220	0.320	0.260	0.068	0.4744	-	-	-	-	-	-	-		
MW-1	5/1/2006	0.011	<0.020	<0.020	<0.020	<0.010	<0.020	<0.020	<0.020	0.06467	-	-	-	-	-	-	-		
MW-1	7/27/2006	<0.01	0.029	0.057	0.061	0.024	0.043	0.057	<0.020	0.1286	-	-	-	-	-	-	-		
MW-1	12/11/2006	0.015	0.025	0.030	0.051	0.051	<0.210	0.034	0.018	-	-	-	-	-	-	-	-		
MW-1	1/23/2007	<0.10	<0.100	-	<0.210	<0.210	<0.210	<0.100	<0.100	-	-	-	-	-	-	-	-		
MW-1	4/6/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MW-1	7/27/2007	0.010	<0.010	<0.010	<0.010	<0.010	<0.020	<0.010	<0.010	-	-	-	-	-	-	-	-		
MW-1	10/2/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MW-1	4/10/2008	-	<0.0098 UJ	<0.0098 UJ	<0.0098 UJ	<0.0098 UJ	<0.0098 UJ	<0.0098 UJ	<0.0098 UJ	-	-	-	-	-	-	-	-		
MW-1	7/14/2008	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	-	-	-	-	-	-	-		
MW-1	10/16/2008	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	-	-	-	-	-	-	-	-		
MW-1	1/9/2009	-	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	-	-	-	-	-	-	-	-		
MW-1	7/8/2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

Table 1.
Groundwater Monitoring Event of July 8, 2009
Chevron Service Station 9-9481
647 140th Ave Northeast
Bellevue, WA

Location	Date	PAH	cPAHs								ADDITIONAL VOC'S					
		Naphthalene	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenz(a,h)anthracene	Total cPAHs	Methanol	Ethanol	ETBE	TAME	DIPE	TBA
	Model To	160	NA	NA	NA	NA	0.1	NA	NA	0.1	NA	NA	NA	NA	NA	NA
	Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-2	5/30/1996	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	2/6/1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	5/7/1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	8/6/1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	12/1/1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	2/9/1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	5/8/1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	8/4/1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	11/25/1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	3/25/1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	6/2/1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	3/22/2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	4/9/2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	2/11/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	8/14/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	8/11/2003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	5/5/2004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	7/13/2004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	10/4/2004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	10/21/2005	0.1	0.100	0.200	0.300	0.100	0.200	0.300	0.060	0.306	<200	<50	<0.5	<0.5	<0.5	<5
MW-2	2/2/2006	0.14	0.120	0.230	0.260	0.140	0.170	0.180	0.038	0.2575	-	-	-	-	-	-
MW-2	5/1/2006	0.14	<0.020	<0.020	0.029	0.013	0.023	0.021	<0.020	0.0344	-	-	-	-	-	-
MW-2	7/27/2006	<0.01	<0.020	<0.020	0.034	0.015	0.025	0.045	<0.020	0.0395	-	-	-	-	-	-
MW-2	12/11/2006	0.12	0.011	<0.100	<0.210	<0.210	<0.210	<0.100	0.013	0.1378	-	-	-	-	-	-
MW-2	1/23/2007	0.34	<0.097	<0.097	<0.190	<0.190	<0.190	<0.097	<0.097	-	-	-	-	-	-	-
MW-2	4/6/2007	0.17	<0.010	<0.010	<0.010	<0.010	<0.020	<0.010	<0.010	-	-	-	-	-	-	-
MW-2	7/27/2007	0.059	<0.010	<0.010	<0.010	<0.010	<0.021	<0.010	<0.010	-	-	-	-	-	-	-
MW-2	10/2/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	1/9/2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	7/14/2008	-	0.096	<0.050	0.14	<0.050	0.087	0.075	<0.050	0.18185	-	-	-	-	-	-
MW-2	10/16/2008	-	0.13	0.50	0.33	<0.10	0.13	0.14	<0.10	0.32	-	-	-	-	-	-
MW-2	1/9/2009	-	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095	-	-	-	-	-	-	-

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Chevron Service Station 9-9481
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Location	Date	PAH	cPAHs								ADDITIONAL VOC'S					
		Naphthalene	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenz(a,h)anthracene	Total cPAHs	Methanol	Ethanol	ETBE	TAME	DIPE	TBA
	Model To	160	NA	NA	NA	NA	0.1	NA	NA	0.1	NA	NA	NA	NA	NA	NA
	Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-2	7/8/2009	-	0.014 J	0.015 J	0.022 J	<0.0095	0.012 J	0.010 J	<0.0095	0.029 J	-	-	-	-	-	-
MW-3	5/30/1996	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	2/6/1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	5/7/1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	8/6/1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	12/1/1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	2/9/1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	5/8/1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	8/4/1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	11/25/1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	3/25/1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	6/2/1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	3/22/2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	4/9/2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	2/11/2002						INACCESSIBLE									
MW-3	8/14/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	8/11/2003						INACCESSIBLE									
MW-3	5/5/2004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	7/13/2004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	10/4/2004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	10/21/2005	0.04	<0.020	<0.020	<0.020	<0.010	<0.020	<0.020	<0.020		<200	<50	<0.5	<0.5	<0.5	<5
MW-3	2/2/2006						INACCESSIBLE									
MW-3	5/1/2006						INACCESSIBLE									
MW-3	7/27/2006	<0.01	<0.020	<0.020	<0.020	<0.010	<0.020	<0.020	<0.020	-	-	-	-	-	-	-
MW-3	12/11/2006	0.071	0.076	0.120	0.220	0.220	0.110	0.110	0.026	0.1842	-	-	-	-	-	-
MW-3	1/23/2007	0.41	<0.100	<0.100	<0.210	<0.210	<0.210	<0.100	<0.100	-	-	-	-	-	-	-
MW-3	4/6/2007	0.048	<0.010	<0.010	<0.010	<0.010	<0.021	<0.010	<0.010	-	-	-	-	-	-	-
MW-3	7/27/2007	0.083	<0.010	<0.010	<0.010	<0.010	<0.021	<0.010	<0.010	-	-	-	-	-	-	-
MW-3	10/2/2007	0.048	<0.012	<0.012	<0.012	<0.012	<0.023	<0.012	<0.012	-	-	-	-	-	-	-
MW-3	1/9/2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	7/14/2008	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	-	-	-	-	-	-
MW-3	10/16/2008	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	-	-	-	-	-	-	-

Table 1.
Groundwater Monitoring Event of July 8, 2009
Chevron Service Station 9-9481
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[illegible]

Abbreviations and Notes:

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

NA = No applicable MTCA Method A cleanup level

ND = Not detected

TOC = Top of casing elevation

DTP = Depth to product

DTW = Depth to water

GWE = Groundwater elevation

DO = Dissolved oxygen

ORP = Oxidation reduction potential

TPH-G = Total petroleum hydrocarbons - gasoline range organics (C4-C12), analyzed by Method NWTPH-Gx ECY 97-602 8015B

TPH-D = Total petroleum hydrocarbons - diesel range organics (C10-C28), extended with silica gel clean-up and analyzed by Method NWTPH-Dx, ECY Method 97-602 Modified

TPH-O = Total petroleum hydrocarbons - oil range organics (C16-C36), extended with silica gel clean-up and analyzed by Method NWTPH-Dx, ECY Method 97-602 Modified

VOCs = Volatile organic compounds analyzed by EPA Method 8260B

BTEX = Benzene, Toluene, Ethylbenzene and Total Xylenes

MTBE = Methyl tertiary-butyl ether

ETBE = Ethyl t-butyl ether

TAME = t-Amyl methyl ether

EDC = 1,2 -Dichloroethane

EDB = 1,2 -Dibromoethane

DIPE = Di-Isopropyl ether

ft = Feet

µg/L = Micrograms per liter

— = Not measured

PAHs = Polycyclic aromatic hydrocarbons analyzed by EPA Method 8270 using Selective Ion Monitoring (SIM)

cPAHs = Carcinogenic PAHs, identified as known or probable human carcinogens by the US EPA

Total and dissolved lead analyzed by EPA Method 7421

Total cPAHs are calculated using the Toxic Equivalency Factors for cPAHs found on page 21 of WSDOE's publication titled "Cleanup Levels and Risk

Calculations under the Model Toxics Control Act Cleanup Regulation," Version 3.1, November 2001. MTCA Method A cleanup level is based on benzo(a)pyrene

Methanol and ethanol analyzed by EPA Method 5W-846 8015B Modified

Historical flags and notes can be viewed on the 4th Quarter 2007 Groundwater Monitoring report.

U - Not detected above laboratory reporting limits

J - Estimated concentration

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria.

The presence or absence of the analyte cannot be verified.

ATTACHMENT A

BLAINE TECH FIELD SAMPLING NOTES

Blaine Tech Services, Inc.

Permit To Work

for Chevron EMC Sites

Client: CRA/CUSA

Site Address: 647 140th

Job Number: 090706-512

Technician(s): Bellevue
S Lane

Date 7/8/09

Pre-Job Safety Review

1. JMP reviewed, site restrictions and parking/access issues addressed.
2. Special Permit Required Task Review

Reviewed: ☒

Are there any conditions or tasks that would require:

	Yes	No
Confined space entry	☐	☒
Working at height	☐	☒
Lock-out/Tag-out	☐	☒
Excavations greater than 4 feet deep	☐	☒
Excavations within 3 feet of a buried active electrical line or product piping	☐	☒
or within 10 feet of a high pressure gas line.	☐	☒
Use of overhead equipment within 15 feet of an overhead electrical power	☐	☒
line or pole supporting one	☐	☒
Hot work	☐	☒

If "Yes" was the answer to any of the Special Permit Required Tasks above, the Project Manager will contact the client and arrange to modify the Scope of Work so that the Special Permit Required Tasks are not required to be performed by Blaine Tech Services employees.

3. Is a Traffic Control Permit required for today's work?

Yes No

If so Is it in the folder?

Is it current?

Do you understand the Traffic Control Plan and what equipment you will need?

On site Pre-Job Safety Review

1. Reviewed and signed the site specific HASP.
 2. Route to hospital understood.
 3. Reviewed "Groundwater Monitoring Well Sampling General Job Safety Analysis included in the HASP.
 4. Exceptional circumstances today that are not covered by the HASP, JSA or JMP have been addressed and mitigated.
 5. Understands procedure to follow, if site circumstances change, to address new site hazards.
 6. Is there any unexpected condition which would make your task a Special Permit Required Task? If yes, contact your Project Manager.
 7. All site hazards have been communicated to all necessary onsite personnel during tailgate safety meeting.
 8. After lunch tailgate safety meeting refresher conducted.
- If Checklist Task cannot be completed, explain:

Permit To Work Authority: Dan Koake

Name

PM

Title

Date

Time

1230

CHAIN OF CUSTODY FORM
6004 B. III

Program Designation: CMP

Site Address (street, city, state / county): 647 140th Ave

Northeast, Bellevue, WA / King

Chevron PM: Stacie Hartung-Francis

Chevron PM Phone No.: 925-842-9655

- ☐ Retail and Terminal Business Unit (RTBU) Job
☐ Construction/Retail Job

Charge Code: NWRTB-0099481-0-OML
NWRTB 00SITE NUMBER-0-OML
WBS ELEMENTS:

WBS ELEMENTS:

SITE ASSESSMENT: A1L

SITE MONITORING: OML

REMEDICATION IMPLEMENTATION: R5L
OPERATION: 11/11/11

OPERATION MAINTENANCE & MONITORING: M1L

Chevron Consultant: CRA

Address: 1420 80th St SW, Suite A, Everett, WA 98203
Everett, WA 98203

Consultant Contact: Laura Genin

Consultant Phone No. (425) 212-5114

Consultant Project No. 090708-562

Sampling Company: Blaine Tech Services

Sampled By (Print): S. L. Z. P.

Sampler Signature: 

Lancaster
2425 New Holland
Pike
PO Box 12425
Lancaster, PA
17605-2425
Angela Miller
amiller@lancasterlabs.
com
(717) 856-2308 x. 1803

Other Lab

Temp.	Blank Check	Temp.
Time		
10:00	100.0	100.0
10:15	100.0	100.0
10:30	100.0	100.0
10:45	100.0	100.0
11:00	100.0	100.0
11:15	100.0	100.0
11:30	100.0	100.0
11:45	100.0	100.0
12:00	100.0	100.0
12:15	100.0	100.0
12:30	100.0	100.0
12:45	100.0	100.0
13:00	100.0	100.0
13:15	100.0	100.0
13:30	100.0	100.0
13:45	100.0	100.0
14:00	100.0	100.0
14:15	100.0	100.0
14:30	100.0	100.0
14:45	100.0	100.0
15:00	100.0	100.0
15:15	100.0	100.0
15:30	100.0	100.0
15:45	100.0	100.0
16:00	100.0	100.0
16:15	100.0	100.0
16:30	100.0	100.0
16:45	100.0	100.0
17:00	100.0	100.0
17:15	100.0	100.0
17:30	100.0	100.0
17:45	100.0	100.0
18:00	100.0	100.0
18:15	100.0	100.0
18:30	100.0	100.0
18:45	100.0	100.0
19:00	100.0	100.0
19:15	100.0	100.0
19:30	100.0	100.0
19:45	100.0	100.0
20:00	100.0	100.0
20:15	100.0	100.0
20:30	100.0	100.0
20:45	100.0	100.0
21:00	100.0	100.0
21:15	100.0	100.0
21:30	100.0	100.0
21:45	100.0	100.0
22:00	100.0	100.0
22:15	100.0	100.0
22:30	100.0	100.0
22:45	100.0	100.0
23:00	100.0	100.0
23:15	100.0	100.0
23:30	100.0	100.0
23:45	100.0	100.0
24:00	100.0	100.0

TPH-D W/ SILICA GEL CLEANUP (97-602M)

TPH-G (8015M)

3260B 8TEXT MTBED

260B FULL LISTO EDCO TBAD TAMED ETBED
ETHANOLO EDB(8011)O

DIETHANOL (8015M)

270 SIM PAH'S ☐ CPH'S ☒

TOTAL LEAD (8020)

SSOLVED LEAD (6020)

CE'S (8081-78082)

DOC FULL LIST (82608)

EX 182609)

Preservation Codes	
--------------------	--

H=HCL T=Thiosulfate

$N = HNO_3$ $B = NaOH$

S = H₂SO₄, O = Other

Special Instruction
Run EDB samples by
B011, not 8260.

SAMPLE ID				(717) 856-2308 x. 1803			TPH-D W/SILICA	TPH-G (8015M)	BTEXO 8260B BTEXO	8260B FULL LIST ETHANOL	METHANOL (8015)	8270 SIM PAH'S	TOTAL LEAD (802)	DISSOLVED LEAD	PCB's (8081+9082)	HVOC FULL LIST (82) BTEX (8260E)	Notes/Comments
Field Point Name	Matrix	Top Depth	Date (yy/mm/dd)	Sample Time	# of Containers	Container Type											
GW-070809-99431-Trip	NA	090807	0600	2													
GW-070809-99431-MW2	NA	↓	1310	6							X					X	
	NA																
	NA																
	NA																
	NA																
	NA																
	NA																
	NA																
	NA																
	NA																

Relinquished By: [Signature] Company: BTS Date/Time:

Relinquished To: _____ Company: _____ Date/Time: _____

Turnaround Time:
 Standard ☒ 24 Hours ☐ 48 hours ☐ 72 Hours
 Other ☐

Sample Integrity: (Check by lab on arrival)
 Intact: _____ On Ice: _____ Temp: _____
 COC # _____

WELLHEAD INSPECTION FORM

Client: Chevron Site: 99481 Date: 7/8/09
Job #: 090708-902 Technician: SL Page: 1 of 1

[illegible]

Notes:

CHEVRON TYPE **A** BILL OF LADING

SOURCE RECORD **BILL OF LADING**

FOR NON-HAZARDOUS PURGEWATER RECOVERED FROM GROUNDWATER WELLS AT CHEVRON FACILITIES IN THE STATE OF WASHINGTON OR OREGON. THE NON-HAZARDOUS PURGE- WATER WHICH HAS BEEN RECOVERED FROM GROUND- WATER WELLS IS COLLECTED BY THE CONTRACTOR, MADE UP INTO LOADS OF APPROPRIATE SIZE AND HAULED BY EMERALD SERVICES

The contractor performing this work is BLAINE TECH SERVICES, INC. 22727 72ND Ave South, Suite D - 102, Kent, WA 98032. BTS Seattle adress. Blaine Tech Services, Inc. is authorized by CHEVRON PRODUCTS COMPANY (CHEVRON) to recover, collect, apportion into loads, and haul the Non-Hazardous Well Purgewater that is drawn from wells at the CHEVRON facility indicated below and to deliver that purgewater to BTS. Transport routing of the Non-Hazardous Well Purgewater may be direct from one Chevron facility to BTS; from one Chevron facility to BTS via another Chevron facility; or any combination thereof. The Non-Hazardous Well Purgewater is and remains the property of CHEVRON.

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

99481
 CHEVRON # 647 140th Chevron Engineer Bellevue
 street number street name city state

WELL I.D.	GALS.	WELL I.D.	GALS.
MW-2,	4.8		
added equip.		any other	
rinse water		adjustments	
TOTAL GALS.	5	loaded onto	71
RECOVERED		BTS vehicle #	
BTS event #	090708-SUZ	time	1730
signature	GUE	date	7.8.09

REC'D AT		time	
unloaded by		date	
signature			

Project # 0910706.412 Date 7/8/9 Client Chevron

Site 041 1901st Bellevue

[illegible]

WELL MONITORING DATA SHEET

BTS #: <u>090708-GL2</u>	Client: <u>Chevron 99481</u>
Sampler: <u>GL</u>	Date: <u>7/8/09</u>
Well I.D.: <u>MW-2</u>	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth (TD): <u>19.03</u>	Depth to Water (DTW): <u>9.00</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>11.00</u>	

Purge Method: Bailer
~~Disposable Bailer~~
 Positive Air Displacement
 Electric Submersible

Waterra
 Peristaltic
 Extraction Pump
 Other _____

Sampling Method: Bailer
~~Disposable Bailer~~
 Extraction Port
 Dedicated Tubing

Other: _____

1.6 (Gals.) X <u>3</u> = <u>4.8</u> Gals.	Well Diameter	Multiplier	Well Diameter	Multiplier
1 Case Volume	Specified Volumes	Calculated Volume		
	1"	0.04	4"	0.65
	2"	0.16	6"	1.47
	3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	Gals. Removed	Observations
1253	64.6	5.96	522	71000	1.6	
1257	63.2	6.13	498	21000	3.2	
1303	62.9	6.16	494	21000	4.8	

Did well dewater? Yes ☒ No ☐ Gallons actually evacuated: 4.8

Sampling Date: 7/8/09 Sampling Time: 1310 Depth to Water: 10.32

Sample I.D.: MW-2 Laboratory: Lancaster

Analyzed for: TPH-G BTEX MTBE TPH-D OXYs Other: Per Client

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (800) 545-7558

ATTACHMENT B

LANCASTER LABORATORY ANALYTICAL REPORT

ANALYTICAL RESULTS

Prepared for:

CRA
1420 80th Street SW
Suite A
Everett WA 98203

425-212-5100

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

July 21, 2009

SAMPLE GROUP

The sample group for this submittal is 1152797. Samples arrived at the laboratory on Thursday, July 09, 2009. The PO# for this group is 4011694 and the release number is MTI.

Client DescriptionGW-070809-99481-Trip Water Sample
GW-070809-99481-MW2 Grab Water Sample**Lancaster Labs Number**5719659
5719660**METHODOLOGY**

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

ELECTRONIC Chevron c/o CRA
COPY TO
ELECTRONIC CRA
COPY TO
ELECTRONIC Chevron c/o CRA
COPY TO

Attn: CRA EDD

Attn: Jeffrey A. Cloud

Attn: Laura Genin

Questions? Contact your Client Services Representative
Angela M Miller at (717) 656-2300

Respectfully Submitted,



Chad A. Moline
Group Leader



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Lancaster Laboratories Sample No. WW 5719659

Group No. 1152797

GW-070809-99481-Trip Water Sample

WA

99481

647 140th Ave NE - Bellevue, WA

Collected: 07/08/2009 06:00 by SL

Account Number: 11997

Submitted: 07/09/2009 09:10

CRA

Reported: 07/21/2009 at 17:49

1420 80th Street SW

Discard: 08/21/2009

Suite A

Everett WA 98203

BVMW2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
SW-846	8260B	GC/MS Volatiles	ug/l	ug/l	ug/l	
06053	Benzene	71-43-2	N.D.	0.5	1	1
06053	Ethylbenzene	100-41-4	N.D.	0.5	1	1
06053	Toluene	108-88-3	N.D.	0.5	1	1
06053	Xylene (Total)	1330-20-7	N.D.	0.5	1	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.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F091961AA	07/15/2009 09:37	Anita M Dale	1
06053	BTEX by 8260B	SW-846 8260B	1	F091961AA	07/15/2009 09:37	Anita M Dale	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories Sample No. WW 5719660

Group No. 1152797

GW-070809-99481-MW2 Grab Water Sample

WA

99481

647 140th Ave NE - Bellevue, WA

Collected: 07/08/2009 13:10

Account Number: 11997

Submitted: 07/09/2009 09:10

CRA

Reported: 07/21/2009 at 17:49

1420 80th Street SW

Discard: 08/21/2009

Suite A

Everett WA 98203

BV-TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
SW-846	8260B	GC/MS Volatiles	ug/l	ug/l	ug/l	
06053	Benzene	71-43-2	7	0.5	1	1
06053	Ethylbenzene	100-41-4	N.D.	0.5	1	1
06053	Toluene	108-88-3	0.8 J	0.5	1	1
06053	Xylene (Total)	1330-20-7	7	0.5	1	1
SW-846	8270C SIM	GC/MS Semivolatiles	ug/l	ug/l	ug/l	
08357	Benzo(a)anthracene	56-55-3	0.014 J	0.0095	0.048	1
08357	Benzo(a)pyrene	50-32-8	0.012 J	0.0095	0.048	1
08357	Benzo(b)fluoranthene	205-99-2	0.022 J	0.0095	0.048	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.0095	0.048	1
08357	Chrysene	218-01-9	0.015 J	0.0095	0.048	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.0095	0.048	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.010 J	0.0095	0.048	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 Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F091942AA	07/14/2009 00:10	Kelly E Brickley	1
06053	BTEX by 8260B	SW-846 8260B	1	F091942AA	07/14/2009 00:10	Kelly E Brickley	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	09190WAF026	07/13/2009 10:09	Timothy J Trees	1
00813	BNA Water Extraction	SW-846 3510C	1	09190WAF026	07/10/2009 09:45	Cynthia J Salvatori	1

Quality Control Summary

Client Name: CRA Group Number: 1152797
Reported: 07/21/09 at 05:49 PM

Matrix QC may not be reported if 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.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: F091942AA	Sample number(s): 5719660								
Benzene	N.D.	0.5	1	ug/l	91		80-116		
Ethylbenzene	N.D.	0.5	1	ug/l	92		80-113		
Toluene	N.D.	0.5	1	ug/l	93		80-115		
Xylene (Total)	N.D.	0.5	1	ug/l	94		81-114		
Batch number: F091961AA	Sample number(s): 5719659								
Benzene	N.D.	0.5	1	ug/l	96	94	80-116	3	30
Ethylbenzene	N.D.	0.5	1	ug/l	98	94	80-113	4	30
Toluene	N.D.	0.5	1	ug/l	97	94	80-115	3	30
Xylene (Total)	N.D.	0.5	1	ug/l	97	94	81-114	4	30
Batch number: 09190WAF026	Sample number(s): 5719660								
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	93	93	72-114	0	30
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	92	93	64-115	0	30
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	95	97	69-123	2	30
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	106	107	72-122	1	30
Chrysene	N.D.	0.010	0.050	ug/l	104	104	76-116	0	30
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	94	95	71-125	0	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	96	96	69-124	0	30

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 %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: F091942AA	Sample number(s): 5719660 UNSPK: P720737								
Benzene	121	117	80-126	2	30				
Ethylbenzene	188*	180*	77-125	2	30				
Toluene	102	102	80-125	1	30				
Xylene (Total)	214*	208*	79-125	1	30				
Batch number: F091961AA	Sample number(s): 5719659 UNSPK: P719511								
Benzene	105		80-126						
Ethylbenzene	118		77-125						
Toluene	104		80-125						
Xylene (Total)	123		79-125						

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(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.

Quality Control Summary

Client Name: CRA
Reported: 07/21/09 at 05:49 PM

Group Number: 1152797

Surrogate Quality Control

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

Analysis Name: BTEX by 8260B

Batch number: F091942AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5719660	85	86	88	100
Blank	85	86	86	95
LCS	86	84	85	95
MS	85	87	85	97
MSD	84	84	85	96
Limits:	80-116	77-113	80-113	78-113

Analysis Name: BTEX by 8260B

Batch number: F091961AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5719659	88	93	91	97
Blank	86	90	89	93
LCS	90	93	91	98
LCSD	91	94	91	99
MS	89	92	91	98
Limits:	80-116	77-113	80-113	78-113

Analysis Name: PAHs in waters by SIM

Batch number: 09190WAF026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
5719660	127	87	69
Blank	104	94	95
LCS	110	98	95
LCSD	110	98	95
Limits:	64-147	68-132	69-140

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(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.

Chevron Site Number: 99481

Program Designation: CMP

Site Address (street, city, state / county): 647 140th Ave

Northeast, Bellevue, WA / King

Chevron PM: Stacie Hartung-Francis

Chevron PM Phone No.: 925-842-9655

- ☐ Retail and Terminal Business Unit (RTBU) Job
☐ Construction/Retail Job

Chevron Consultant: CRA

Address: 1420 80th St SW, Suite A, Everett, WA 98203
Everett, WA 98203

Consultant Contact: Laura Genin

Consultant Phone No. (425) 212-5114

Consultant Project No. 090708-SUZ

Sampling Company: Blaine Tech Services

Sampled By (Print): S. LAR

Sampler Signature: [Signature]

ANALYSES REQUIRED

Preservation Codes

H = HCL T = Thiosulfate

N = HNO₃ B = NaOHS = H₂SO₄ O = OtherSpecial Instruct
Run EDB samples by
8011, not 8260.Charge Code: NWRTE-0099481-0-OML
NWRTE 00SITE NUMBER-0- OML

WBS ELEMENTS:

SITE ASSESSMENT: A1L REMEDIATION IMPLEMENTATION: R5L
SITE MONITORING: OML OPERATION MAINTENANCE & MONITORING: M1LLancaster
2425 New Holland
Pike
PO Box 12425
Lancaster, PA
17605-2425
Angela Miller
(amiller@lancasterlabs.com)
(717) 858-2308 x. 1803

Other Lab

Temp. Blank Check
Time Temp.

SAMPLE ID

Field Point Name	Matrix	Top Depth	Date (yyymmdd)	Sample Time	# of Containers	Container Type	TPH-D W SILICA GEL CLEANUP (87-602M)	TPH-G (8015M)	8260B BTEX (8015M)	8260B FULL LIST (8015M)	EDC (8011)	TBAC (8011)	EDB (8011)	ETHANOL (8015M)	8270 SIM PAH's (8015M)	CPAH's (8015M)	TOTAL LEAD (6020)	DISSOLVED LEAD (6020)	PCB's (8081-8082)	HVOC FULL LIST (8260B)	BTEX (8260B)	Notes/Comments
W-070809-99481-T1	NA		090807	0600	2																	
W-070809-99481-MW2	NA		↓	1310	6																	
	NA																					
	NA																					
	NA																					
	NA																					
	NA																					
	NA																					
	NA																					
	NA																					
	NA																					
	NA																					

Relinquished By [Signature]	Company BTS	Date/Time	Relinquished To	Company	Date/Time	Turnaround Time: Standard ☒ 24 Hours ☐ 48 hours ☐ 72 Hours ☐ Other ☐ Sample Integrity: (Check by lab on arrival) Intact: ☒ On Ice: ☒ Temp: 26°C COC #
Relinquished By	Company	Date/Time	Relinquished To	Company	Date/Time	
Relinquished By	Company	Date/Time	Relinquished To	Company	Date/Time	

Lancaster Laboratories Explanation of Symbols and Abbreviations

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

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	l	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml
<	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		
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.		

U.S. EPA data qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is <CRDL, but ≥IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike amount not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
J	Estimated value	U	Compound was not detected
N	Presumptive evidence of a compound (TICs only)	W	Post digestion spike out of control limits
P	Concentration difference between primary and 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 for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

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.

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Laboratory Report

Quality Assurance Checklist - Compliance Review

Project Summary

Facility/Project No.: 9-9481/060373(632322)
Project Name: Bellevue
Report Type: Standard
Project Manager: Laura Genin

Analytical Laboratory

Laboratory: Lancaster
Report I.D.: 1152797
Report Date: 7/21/2009
Sample Collection Date: 7/8/2009

Laboratory Report and Compliance Review

HT Met?	☒ Yes	No	If no, explain:	<u></u>
All Requested Analyses Included	☒ Yes	No	If no, explain:	<u></u>
Lab Used Analytical Method Requested:	☒ Yes	No	If no, explain:	<u></u>
Lab Met Requested Detection Limits:	☒ Yes	No	If no, explain:	<u></u>
Reported QC acceptable:	Yes	☒ No	If no, explain:	<u></u>

Field Blanks:	Type	<u>trip blank</u>	Detections	<u>ND</u>
Field Duplicates:	Location	<u>none</u>	RPD < 50%?	<u></u>

Comments: The 8260 MS/D had high recoveries for ethylbenzene and total xylenes. MS/D performed on non-project sample, no qualification necessary.

Reviewed By: J Cloud
Date: 7/26/2009