NW1564

CONESTOGA-ROVERS
& ASSOCIATES

1420 80th Street SW, Suite A, Everett, Washington 98203
Telephone: 425-212-5100 Facsimile: 425-212-5113
www.CRAworld.com

December 7, 2009

Reference No. 060373

Mr. Christopher Maurer
Washington State Department of Ecology
Headquarters
PO Box 47600
Olympia, Washington 98504-7600

Re: Groundwater Monitoring Event of October 12, 2009
Former Chevron Service Station No. 9-9481
647 140th Avenue Northeast
Bellevue, Washington
Agency ID No.: 52196613
VCP Project No.: NW1564

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 October 12, 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:

- MW-2 was noted to have two (2) broken tabs
- MW-3 was noted to have one (1) tab stripped

Well repairs will take place during the next groundwater monitoring event.

PLANNED ACTIVITIES

The site is scheduled for monitoring and sampling in first quarter 2010.

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

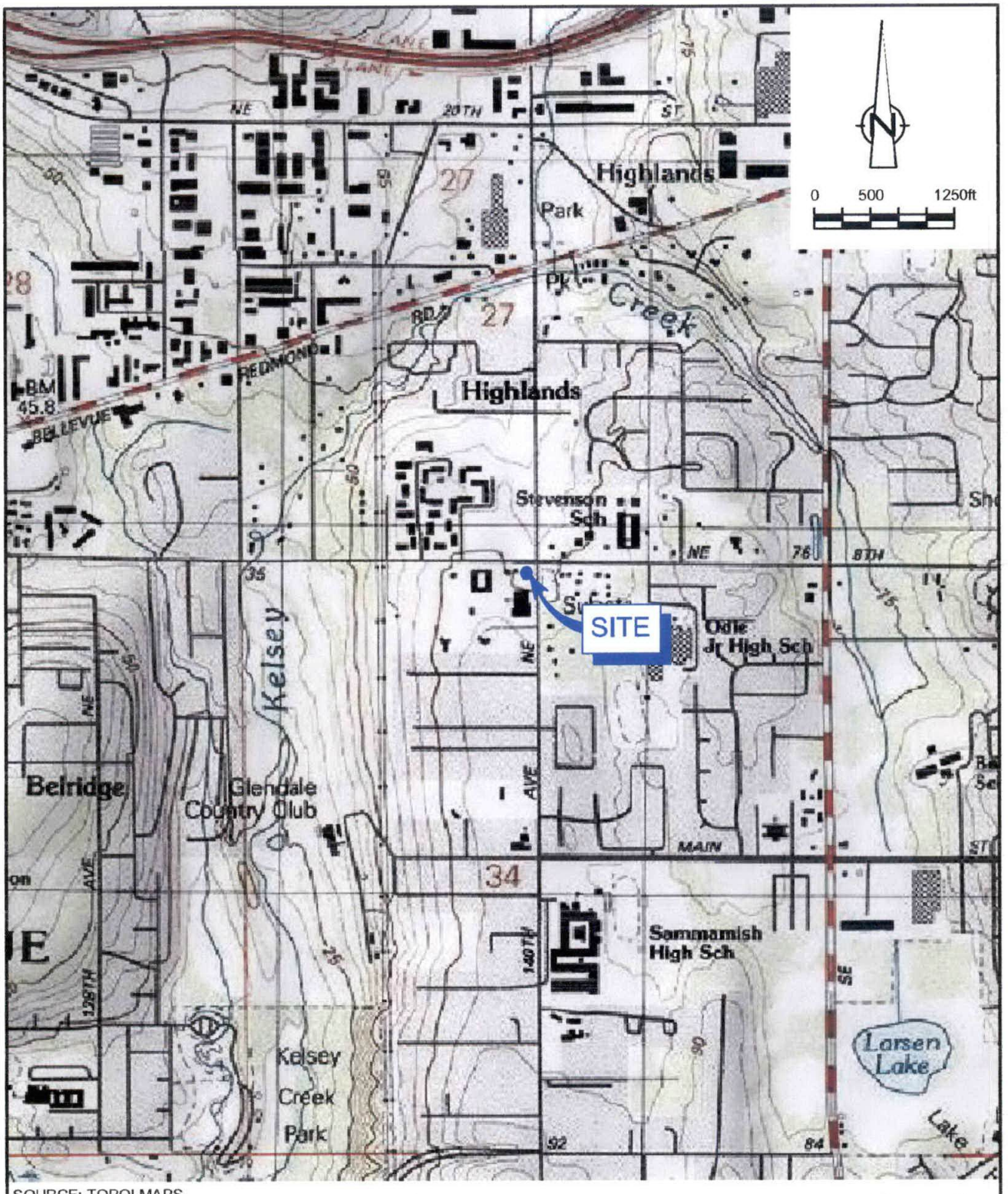
Laura Genin, LG

HB/cd /26
Encl.

Figure 1	Vicinity Map
Figure 2	Groundwater Elevation Contour Map
Table 1	Groundwater Analytical Results
Attachment A	Blaine Tech's Field Sampling Notes
Attachment B	Lancaster Laboratory Analytical Report

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

FIGURES

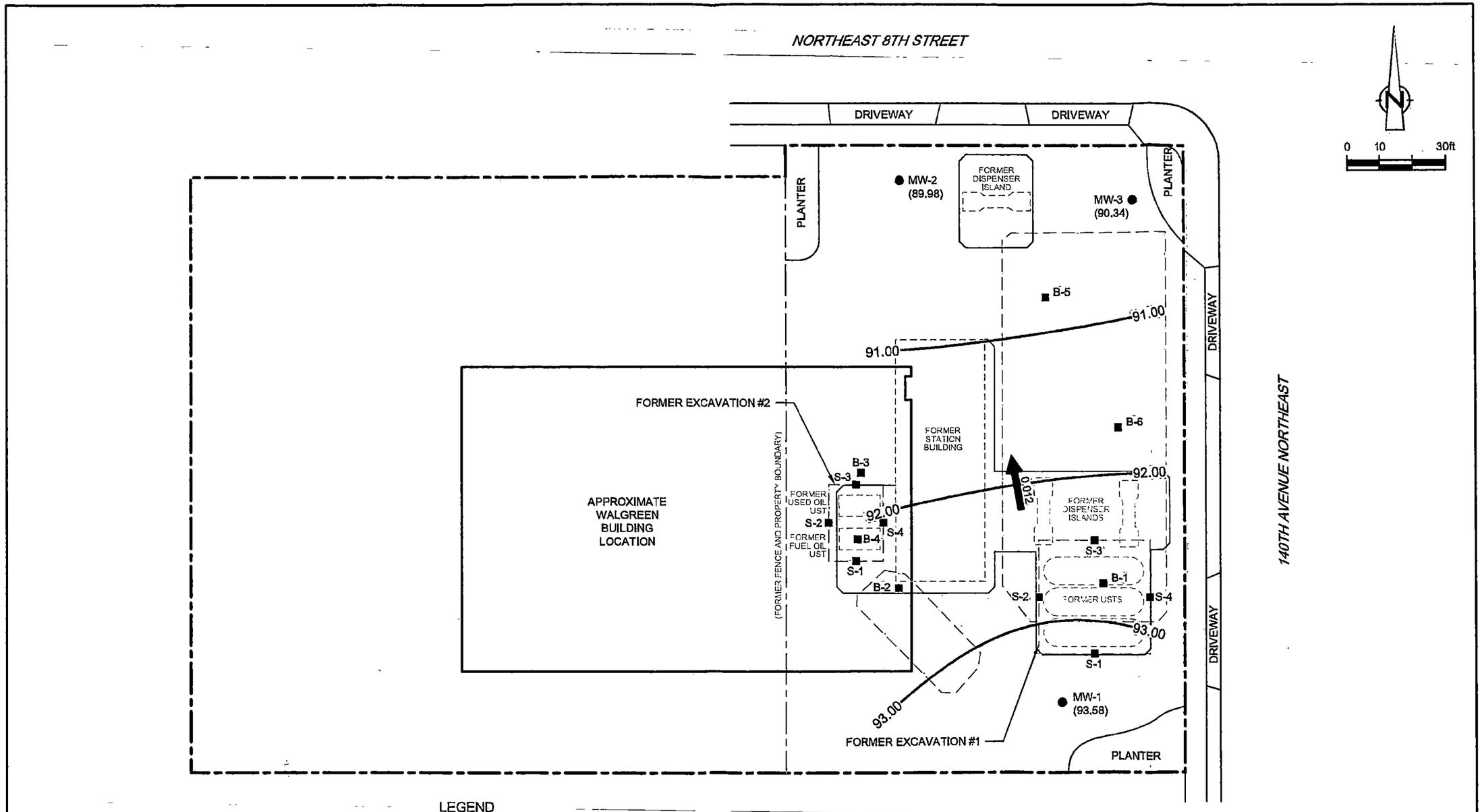


SOURCE: TOPO! MAPS.

Figure 1

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

60373-99481(026)GN-WA001 NOV 24/2009



LEGEND

MW-1 ●	MONITORING WELL LOCATION
B-3 ■	PREVIOUS BORING LOCATION
	AREA OF EXCAVATION
90.50	GROUNDWATER ELEVATION CONTOUR, IN FEET ABOVE MEAN SEA LEVEL (MSL)
(93.58)	GROUNDWATER ELEVATION (MSL)
0.02 →	GROUNDWATER FLOW DIRECTION AND GRADIENT (ft/ft)

BASEMAP MODIFIED FROM DRAWING PROVIDED BY SECOR

Figure 2

SITE PLAN
FORMER CHEVRON STATION 9-9481
647 140TH AVENUE NORTHEAST
Bellevue, Washington

TABLES

TABLE 1

GROUNDWATER MONITORING EVENT OF OCTOBER 12, 2009
CHEVRON SERVICE STATION 9-9481
647 140TH AVE NE
BELLEVUE, WASHINGTON

								HYDROCARBONS			*PRIMARY VOCS*					*LEAD*	
Location	*Date*	*TOC*	*DTP*	*DTW*	*GWE*	*DO*	*ORP*	*TPH-GRO*	*TPH-DRO*	*TPH-HRO*	*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-1	5/30/1996	99.08	-	5.35	93.73	–	–	ND	–	–	ND	ND	ND	ND	–	–	3.67
MW-1	2/6/1997	99.08	-	4.61	94.47	–	–	ND	–	–	ND	ND	ND	ND	–	–	–
MW-1	5/7/1997	99.08	-	4.88	94.20	–	–	ND	–	–	ND	ND	ND	1.54	–	–	–
MW-1	8/6/1997	99.08	-	5.01	94.07	–	–	ND	–	–	ND	ND	ND	ND	–	–	–
MW-1	12/1/1997	99.08	-	4.70	94.38	–	–	ND	–	–	ND	ND	ND	ND	–	–	–
MW-1	2/9/1998	99.08	-	5.00	94.08	–	–	ND	–	–	ND	ND	ND	ND	–	–	–
MW-1	5/8/1998	99.08	-	5.25	93.83	–	–	ND	–	–	ND	ND	ND	ND	–	–	–
MW-1	8/4/1998	99.08	-	5.29	93.79	–	–	ND	–	–	ND	ND	ND	ND	ND	–	–
MW-1	11/25/1998	99.08	-	4.85	94.23	–	–	ND	–	–	ND	ND	ND	ND	–	–	–
MW-1	3/25/1999	99.08	-	4.97	94.11	–	–	ND	–	–	ND	ND	ND	ND	–	–	–
MW-1	6/2/1999	99.08	-	5.22	93.86	–	–	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	220	<0.5	<0.5	<0.5	<1.0	<0.5	<0.87	8.8
MW-1	2/2/2006	99.08	-	3.39	95.69	1.9	43	<48	<80	140	<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	–	–
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	–	–
MW-1	12/11/2006	99.08	-	4.70	94.38	–	–	<50	34	<250	<1.0	<1.0	<1.0	<3.0	<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	–	–
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	–	–
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	–	–	–	–	–	–	–	–	–	–	–	–
MW-1	10/12/2009	99.08	-	5.50	93.58	–	–	–	–	–	–	–	–	–	–	–	–

TABLE 1

GROUNDWATER MONITORING EVENT OF OCTOBER 12, 2009
CHEVRON SERVICE STATION 9-9481
647 140TH AVE NE
BELLEVUE, WASHINGTON

								HYDROCARBONS			*PRIMARY VOCS*					*LEAD*	
Location	*Date*	*TOC*	*DTP*	*DTW*	*GWE*	*DO*	*ORP*	*TPH-GRO*	*TPH-DRO*	*TPH-HRO*	*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	–	–	–

TABLE 1

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CHEVRON SERVICE STATION 9-9481
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BELLEVUE, WASHINGTON

								HYDROCARBONS			PRIMARY VOCS					LEAD	
Location	*Date*	*TOC*	*DTP*	*DTW*	*GWE*	*DO*	*ORP*	*TPH-GRO*	*TPH-DRO*	*TPH-HRO*	*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	7/8/2009	98.63	-	9.00	89.63	–	–	–	–	–	7	0.8 J	<0.5	7	–	–	–
MW-2	10/12/2009	98.63	-	8.65	89.98	3.09	-11.9	–	–	–	6	<0.5	0.7 J	5	–	–	–
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	<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	–	–
MW-3	12/11/2006	98.46	-	7.68	90.78	–	–	170	85	130	<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	<3.0	<1.0	–	–
MW-3	4/6/2007	98.46	-	7.66	90.80	–	–	240	150	<270	<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	<2.0	<1.0	–	–
MW-3	10/2/2007	98.46	-	8.97	89.49	–	–	210	180	<270	<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	<2.0	–	–	–
MW-3	7/14/2008	98.46	-	8.20	90.26	–	–	–	–	–	–	–	–	–	–	–	–

TABLE 1

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CHEVRON SERVICE STATION 9-9481
647 140TH AVE NE
BELLEVUE, WASHINGTON

								HYDROCARBONS			*PRIMARY VOCS*					*LEAD*	
Location	*Date*	*TOC*	*DTP*	*DTW*	*GWE*	*DO*	*ORP*	*TPH-GRO*	*TPH-DRO*	*TPH-HRO*	*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-3	10/16/2008	98.46	-	8.10	90.36	–	–	–	–	–	–	–	–	–	–	–	–
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	–	–	–	–	–	–	–	–	–	–	–	–
MW-3	10/12/2009	98.46	-	8.12	90.34	–	–	–	–	–	–	–	–	–	–	–	–
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	–	–	–
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	–	–	–
TRIP BLANK	10/12/2009	–	–	–	–	–	–	–	–	–	<0.5	<0.5	<0.5	<0.5	–	–	–

TABLE 1

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		PAH	cPAHs								ADDITIONAL VOC'S					
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	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-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	0.050	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	–	–	–	–	–	–	–
MW-1	7/27/2006	<0.01	0.029	0.057	0.061	0.024	0.043	0.057	<0.020	0.06467	–	–	–	–	–	–
MW-1	12/11/2006	0.015	0.025	0.030	0.051	0.051	<0.210	0.034	0.018	0.1286	–	–	–	–	–	–
MW-1	1/23/2007	<0.10	<0.100	<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	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
MW-1	10/12/2009	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

TABLE 1

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		PAH	cPAHs								ADDITIONAL VOC'S					
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	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	INACCESSIBLE														
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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		PAH	cPAHs								ADDITIONAL VOC'S					
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	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-2	10/12/2009	–	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	–	–	–	–	–	–	–
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	–	–	–	–	–	–	–

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		PAH	cPAHs								ADDITIONAL VOC'S					
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	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-3	10/16/2008	–	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	–	–	–	–	–	–	–
MW-3	1/9/2009	–	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099	–	–	–	–	–	–	–
MW-3	7/8/2009	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
MW-3	10/12/2009	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TRIP BLANK	11/25/1998	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TRIP BLANK	3/25/1999	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TRIP BLANK	6/2/1999	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TRIP BLANK	3/22/2000	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TRIP BLANK	4/9/2001	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TRIP BLANK	2/11/2002	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TRIP BLANK	8/14/2002	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TRIP BLANK	8/11/2003	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TRIP BLANK	5/5/2004	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TRIP BLANK	7/13/2004	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TRIP BLANK	10/4/2004	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TRIP BLANK	10/21/2005	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TRIP BLANK	2/2/2006	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TRIP BLANK	5/1/2006	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TRIP BLANK	7/27/2006	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TRIP BLANK	12/11/2006	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TRIP BLANK	1/23/2007	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TRIP BLANK	4/6/2007	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TRIP BLANK	7/27/2007	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TRIP BLANK	10/2/2007	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TRIP BLANK	1/9/2008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TRIP BLANK	7/14/2008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TRIP BLANK	10/16/2008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TRIP BLANK	1/9/2009	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TRIP BLANK	7/8/2009	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TRIP BLANK	10/12/2009	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

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 SW-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'S FIELD SAMPLING NOTES

CHAIN OF CUSTODY FORM

Chevron Environmental Management Company ■ 6001 Bollinger Canyon Road ■ San Ramon, CA 94583-2324 COC 1 of 1

Chevron Site Number: 99481

Program Designation: CMP

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

Northeast, Bellevue, WA / King

Chevron PM: Stacie Hartung-Frerichs

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. ~~SEA~~ 091012-43

Sampling Company: Blaine Tech Services

Sampled By (Print): S. Lamb

Sampler Signature: S Lamb

Charge Code: NWRTB-0099481-0-OML
NWRTB 00SITE NUMBER-0- OML
WBS ELEMENTS:
SITE ASSESSMENT: **A1L** REMEDIATION IMPLEMENTATION: **R5L**
SITE MONITORING: **OML** OPERATION MAINTENANCE & MONITORING: **M1L**

Lancaster
2425 New Holland Pike
PO Box 12425
Lancaster, PA
17605-2425
Angela Miller
(amiller@lancasterlabs.com)
(717) 656-2308 x. 1803

Other Lab

Temp. Blank Check
Time Temp.

ANALYSES REQUIRED

Preservation Codes
H =HCL T= Thiosulfate
N =HNO_3 B = NaOH
S = H_2SO_4 O = Other

Special Instruction
Run EDB samples by 8011, not 8260.

SAMPLE ID				Sample Time	# of Containers	Container Type	TPH-D W/ SILICA GEL CLEANUP (97-602M)	TPH-G (8015M)	8260B BTEX☐ MTBE☐	8260B FULL LIST☐ EDC☐ TBA☐ TAME☐ ETBE☐ ETHANOL☐ EDB (8011)☐	METHANOL (8015M)	8270 SIM PAH's☐ cPAH's☐	TOTAL LEAD (6020)	DISSOLVED LEAD (6020)	PCB's (8081/8082)	HVOC FULL LIST (8260B)	BTEX (8260B)	Notes/Comments
Field Point Name	Matrix	Top Depth	Date (yymmdd)															
GW-101209-99481-MW2		NA	091012	1125	6							X					X	
GW-101209-99481-TB		NA	↓	0600	2												X	
		NA																
		NA																
		NA																
		NA																
		NA																
		NA																
		NA																
		NA																

Relinquished By	Company	Date/Time:	Relinquished To	Company	Date/Time
S Lamb	BTS	10/12/09 1700	FedEx		
Relinquished By	Company	Date/Time	Relinquished To	Company	Date/Time
Relinquished By	Company	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 10/12/09

Job #: 091012-SL3 Technician: SL Page 1 of 1

Well ID	Well Inspected - No Corrective Action Required	Check Indicates deficiency: Cap non-functional	Lock non-functional	Lock missing	Bolts missing (list qty.)	Tabs stripped (list qty.)	Tabs broken (list qty.)	Annular seal incomplete	Apron damaged	Rim / Lid broken	Trip Hazard	Below Grade	Other (explain in notes)	Well Not Inspected (explain in notes)	Notes (list if cap or lock replaced, if there are access issues associated with repairs, if traffic control is required, if stand pipe damaged, or any specific details not covered by checklist)
MW-1	X														
MW-2							2/2								
MW-3						3/3									

Notes:

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

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

9481
CHEVRON #

Chevron Engineer

647 | 140th | Bellevue
street number | street name | city | state

WELL I.D. ~~GALS.~~		WELL I.D.	GALS.
MW-2	3.6		
added equip. rinse water		any other adjustments	

TOTAL ~~GALS.~~ RECOVERED 3.6

loaded onto BTS vehicle # 71

BTS event # 091012-SC3 time 1130 date 10/12/09

signature

****

REC'D AT time date

unloaded by

signature

WELL GAUGING DATA

Project # 091012-477 Date 10/12/09 Client Chevron

Site 647 140th Bellevue

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
MW-1	1051	2					5.70	19.80		
MW-2	1056	2					8.65	19.00		
MW-3	1055	2					8.12	18.40	↓	

CHEVRON LOW FLOW WELL MONITORING DATA SHEET

Project #: 091012-GL7	Site #: 99481
Sampler: GL	Start Date: 10/12/09
Well I.D.: MW-2	Well Diameter: 2 3 4 6 8 ___
Total Well Depth: 19.00	Depth to Water Pre: 8.65 Post: 10.72
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump / Peristaltic Pump / Bladder Pump
Sampling Method: (Dedicated Tubing) / New Tubing / Other ___

Flow Rate: 200 ml/m

Pump Depth: 15'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Observations
1106	15.56	6.62	589	10	5.49	37.7	600	DTW 8.79
1109	15.88	6.77	564	8	4.69	-6.8	1200	9.00
1112	16.34	6.76	553	7	4.05	-7.6	1800	9.23
1115	17.14	6.86	547	6	3.58	-13.4	2400	9.42
1118	17.20	6.86	545	4	3.09	-12.0	3000	9.70
1121	17.23	6.85	545	4	3.09	-11.9	3600	9.93

Did well dewater? Yes (No) Amount actually evacuated: 3.6 L

Sampling Time: 1125 Sampling Date: 10/12/09

Sample I.D.: GW-101209-99481-MW2 Laboratory: Lancaster

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

Equipment Blank I.D.: @ Time Duplicate I.D.:

ATTACHMENT B

LANCASTER LABORATORY ANALYTICAL REPORT

Lancaster Laboratories

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

Analysis 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

October 23, 2009

Project: 99481

Samples arrived at the laboratory on Tuesday, October 13, 2009. The PO# for this group is 4011694 and the release number is MTI. The group number for this submittal is 1166114.

Client Sample Description	Lancaster Labs (LLI) #
GW-101209-99481-MW2 Water Sample	5804444
GW-101209-99481-TRIP Water Sample	5804445

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

ELECTRONIC COPY TO	Chevron c/o CRA	Attn: CRA EDD
ELECTRONIC COPY TO	Chevron c/o CRA	Attn: Laura Genin
ELECTRONIC COPY TO	CRA	Attn: Jeffrey A. Cloud

Lancaster Laboratories

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

Analysis Report

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

Respectfully Submitted,

Robin C. Runkle
Senior Specialist

Lancaster Laboratories

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

Analysis Report

Sample Description: GW-101209-99481-MW2 Water Sample
Facility# 99481
647 140th Ave NE - Bellevue, WA

LLI Sample # WW 5804444
LLI Group # 1166114
WA

Project Name: 99481

Collected: 10/12/2009 11:25 by SL

Account Number: 11997

Submitted: 10/13/2009 08:50
Reported: 10/23/2009 at 11:50
Discard: 11/23/2009

CRA
1420 80th Street SW
Suite A
Everett WA 98203

647M2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	ug/l	
06053	Benzene	71-43-2	6	0.5	1	1
06053	Ethylbenzene	100-41-4	0.7 J	0.5	1	1
06053	Toluene	108-88-3	N.D.	0.5	1	1
06053	Xylene (Total)	1330-20-7	5	0.5	1	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l	ug/l	ug/l	
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.050	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.050	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.050	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.050	1
08357	Chrysene	218-01-9	N.D.	0.010	0.050	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.050	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.050	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	Z092881AA	10/15/2009 18:09	Florida A Cimino	1
06053	BTEX by 8260B	SW-846 8260B	1	Z092881AA	10/15/2009 18:09	Florida A Cimino	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	09288WAD026	10/16/2009 04:32	Linda M Hartenstine	1
00813	BNA Water Extraction	SW-846 3510C	1	09288WAD026	10/15/2009 16:25	Timothy J Attenberger	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: GW-101209-99481-TRIP Water Sample
Facility# 99481
647 140th Ave NE - Bellevue, WA

LLI Sample # WW 5804445
LLI Group # 1166114
WA

Project Name: 99481

Collected: 10/12/2009 06:00

Account Number: 11997

Submitted: 10/13/2009 08:50
Reported: 10/23/2009 at 11:50
Discard: 11/23/2009

CRA
1420 80th Street SW
Suite A
Everett WA 98203

647TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	SW-846 8260B		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	Z092881AA	10/15/2009 19:46	Florida A Cimino	1
06053	BTEX by 8260B	SW-846 8260B	1	Z092881AA	10/15/2009 19:46	Florida A Cimino	1

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

Lancaster Laboratories

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

Analysis Report

Quality Control Summary

Client Name: CRA Group Number: 1166114
Reported: 10/23/09 at 11:50 AM

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: Z092881AA	Sample number(s): 5804444-5804445								
Benzene	N.D.	0.5	1	ug/l	94		79-120		
Ethylbenzene	N.D.	0.5	1	ug/l	97		79-120		
Toluene	N.D.	0.5	1	ug/l	97		79-120		
Xylene (Total)	N.D.	0.5	1	ug/l	100		80-120		
Batch number: 09288WAD026	Sample number(s): 5804444								
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	87	86	72-114	1	30
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	86	84	64-115	2	30
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	82	79	69-123	3	30
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	92	89	72-122	3	30
Chrysene	N.D.	0.010	0.050	ug/l	92	91	76-116	1	30
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	96	95	71-125	2	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	95	94	69-124	1	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: Z092881AA	Sample number(s): 5804444-5804445 UNSPK: 5804444								
Benzene	91	101	80-126	8	30				
Ethylbenzene	95	102	71-134	7	30				
Toluene	95	103	80-125	8	30				
Xylene (Total)	97	104	79-125	6	30				

Surrogate Quality Control

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

Analysis Name: BTEX by 8260B
Batch number: Z092881AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5804444	85	82	88	85
5804445	86	83	87	83
Blank	86	82	87	83
LCS	86	83	88	85

*- 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 Group Number: 1166114
Reported: 10/23/09 at 11:50 AM

Surrogate Quality Control

MS	86	84	88	86
MSD	87	84	87	84
Limits:	80-116	77-113	80-113	78-113

Analysis Name: PAHs in waters by SIM
Batch number: 09288WAD026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
5804444	137	101	62
Blank	108	98	82
LCS	109	99	84
LCSD	109	99	82
Limits:	64-147	68-132	53-129

*- 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.

Account# 11997 Group# 1166114 Sample# 5804444-45

CHAIN OF CUSTODY FORM

Chevron Environmental Management Company ▪ 6001 Bollinger Canyon Road ▪ San Ramon, CA 94583-2324 COC 1 of 1

Chevron Site Number: 99481

Program Designation: CMP

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

Northeast, Bellevue, WA / King

Chevron PM: Stacie Hartung-Frerichs

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. ~~SB~~ 091012-SB

Sampling Company: Blaine Tech Services

Sampled By (Print): S. Lahr

Sampler Signature: SLR

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

WBS ELEMENTS:
SITE ASSESSMENT: **A1L** REMEDIATION IMPLEMENTATION: **R5L**
SITE MONITORING: **OML** OPERATION MAINTENANCE & MONITORING: **M1L**

Lancaster
2425 New Holland Pike
PO Box 12425
Lancaster, PA
17605-2425
Angela Miller
(amiller@lancasterlabs.com)
(717) 656-2308 x. 1903

Other Lab

Temp. Blank Check: Time / Temp.

ANALYSES REQUIRED

Preservation Codes: H = HCL T = Thiosulfate; N = HNO_3 B = NaOH; S = H_2SO_4 O = Other

Special Instruction: Run EDB samples by 8011, not 8260.

SAMPLE ID: Field Point Name	Matrix	Top Depth	Date (yymmdd)	Sample Time	# of Containers	Container Type	TPH-D W/ SILICA GEL CLEANUP (97-602M)	TPH-G (8015M)	8260B BTEX☐ MTBE☐	8260B FULL LIST☐ EDC☐ TBA☐ TAMEO ETBEO ETHANOL☐ EDB (8011)☐	METHANOL (8015M)	8270 SIM PAH's☐ cPAH's☐	TOTAL LEAD (6020)	DISSOLVED LEAD (6020)	PCB's (8081+8082)	HVOC FULL LIST (8260B)	BTEX (8260B)	Notes/Comments
GW-101209-99481-MW2		NA	091012	1125	6							X					X	
GW-101209-99481-TRIP		NA	↓	0600	2												X	
		NA																
		NA																
		NA																
		NA																
		NA																
		NA																
		NA																
		NA																

Relinquished By	Company	Date/Time	Relinquished To	Company	Date/Time
SLR	FRS	091209 1700	FedEx		

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

Sample Integrity: (Check by lab on arrival)
Intact: X On Ice: X Temp: 3.8°C
COC #

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 limit of quantitation, 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

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quatitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
J	Estimated value
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike amount not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

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.

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.:	1166114
Report Date:	10/23/2009
Sample Collection Date:	10/12/2009

Laboratory Report and Compliance Review

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

Field Blanks:	Type	Trip Blank	Detections	ND
Field Duplicates:	Location	None	RPD < 50%?	

Comments:

Reviewed By: J Cloud

Date: 10/28/2009