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8:29 am, Jul 05, 2011
Alameda County
Environmental Health

Dave Patten
Project Manager
Marketing Business Unit

**Chevron Environmental
Management Company**
6111 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 543-2961
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Alameda County Health Care Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: Chevron Service Station No. 9-4800
1700 Castro Street
Oakland, CA

I have reviewed the attached report dated July 1, 2011.

I agree with the conclusions and recommendations presented in the referenced report. The information in this report is accurate to the best of my knowledge and all local Agency/Regional Board guidelines have been followed. This report was prepared by Conestoga-Rovers & Associates, upon whose assistance and advice I have relied.

This letter is submitted pursuant to the requirements of California Water Code Section 13267(b)(1) and the regulating implementation entitled Appendix A pertaining thereto.

I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge.

Sincerely,

A handwritten signature in black ink, appearing to be "Dave Patten", written over a horizontal line.

Dave Patten
Project Manager

Attachment: Report



**CONESTOGA-ROVERS
& ASSOCIATES**

5900 Hollis Street, Suite A
Emeryville, California 94608
Telephone: (510) 420-0700 Fax: (510) 420-9170
<http://www.craworld.com>

July 1, 2011

Reference No. 060061

Mr. Mark Detterman
Alameda County Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: First Semi-Annual 2011
Groundwater Monitoring and Sampling Report
Chevron Service Station 9-4800
1700 Castro Street
Oakland, California
Fuel Leak Case No. RO0000342

Dear Mr. Mark Detterman:

Conestoga-Rovers & Associates (CRA) is submitting this *First Semi-Annual 2011 Groundwater Monitoring and Sampling Report* for the site referenced above (Figure 1) on behalf of Chevron Environmental Management Company (Chevron). Groundwater monitoring and sampling was performed by Blaine Tech Services (Blaine Tech) of San Jose, California. Blaine Tech's May 5, 2011 *First Semi-Annual 2011 Monitoring* report is included as Attachment A. Groundwater monitoring and sampling data are presented in Table 1. Lancaster Laboratories' May 17, 2011 *Analytical Results* is included as Attachment B.

RESULTS OF FIRST SEMI-ANNUAL EVENT

On May 4, 2011, Blaine Tech monitored and sampled the site wells per the established schedule.

Results of the current monitoring event indicate the following:

- Groundwater Flow Direction West
- Hydraulic Gradient 0.01
- Depth to Water 23.50 to 27.35 feet below grade

Equal
Employment Opportunity
Employer



July 1, 2011

Reference No. 060061

- 2 -

Results of the current sampling event are presented below in Table A:

TABLE A: GROUNDWATER ANALYTICAL DATA							
<i>Well ID</i>	<i>TPHd (µg/L)</i>	<i>TPHg (µg/L)</i>	<i>Benzene (µg/L)</i>	<i>Toluene (µg/L)</i>	<i>Ethylbenzene (µg/L)</i>	<i>Total Xylenes (µg/L)</i>	<i>MTBE (µg/L)</i>
<i>Groundwater ESLs</i>	100	100	1.0	40	30	20	5
MW-1	75 J	<50	<0.5	<0.5	<0.5	<0.5	180
MW-2	1,300	830	<0.5	<0.5	51	10	16
MW-3	250	370	30	<0.5	<0.5	8	200
MW-4	60 J	<50	<0.5	<0.5	<0.5	<0.5	25
MW-7	85 J	150	<0.5	<0.5	<0.5	<0.5	4,200
ESL	Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Prepared by California Regional Water Quality Control Board San Francisco Bay Region, Interim Final - November 2007, (Revised May 2008), Table F-1a-Groundwater Screening Levels-Current or Potential Drinking Water Resource.						
µg/L	Micrograms per Liter						
J	Estimated Value						

CONCLUSIONS AND RECOMMENDATIONS

The first semi-annual 2011 sampling event results indicate:

- All dissolved hydrocarbon concentrations in groundwater continue to remain non-detect or decreasing from the previous sampling event and the historical maximum concentrations in all wells.

ANTICIPATED FUTURE ACTIVITIES

Groundwater Monitoring

Blaine Tech will monitor and sample site wells per the established schedule. CRA will prepare and submit the sampling results within 60 days of the sampling date.



**CONESTOGA-ROVERS
& ASSOCIATES**

July 1, 2011

Reference No. 060061

- 3 -

Please contact Nathan Lee at (510) 420-3333 if you have any questions or require additional information.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Nathan Lee, PG 8486



NL/aa/7
Encl.

Figure 1	Vicinity Map
Figure 2	Groundwater Elevation Contour and Hydrocarbon Concentration Map
Table 1	Groundwater Monitoring and Sampling Data
Attachment A	Monitoring Data Package
Attachment B	Laboratory Analytical Report

cc: Mr. Dave Patten

FIGURES

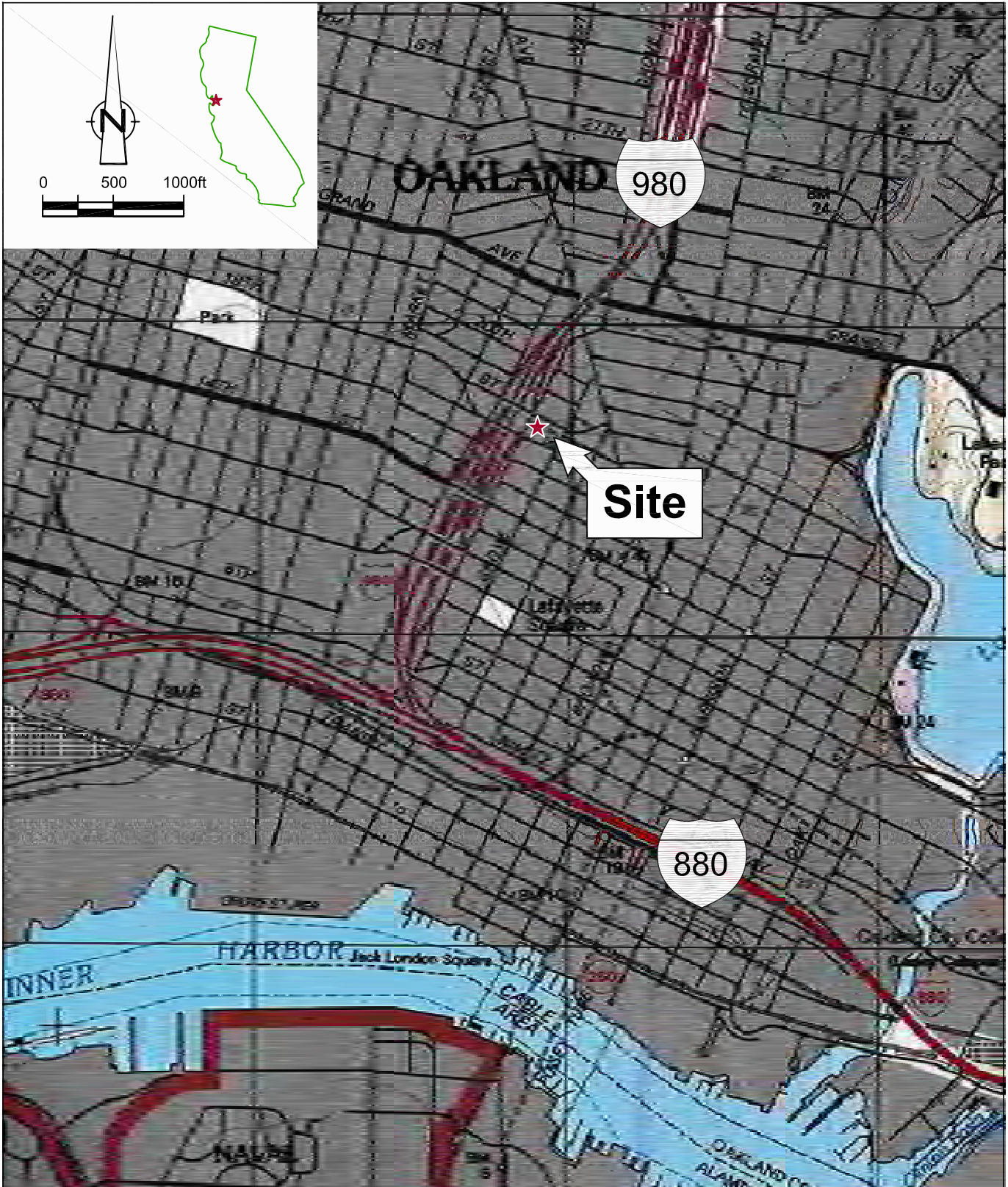


Figure 1
VICINITY MAP
CHEVRON SERVICE STATION 9-4800
1700 CASTRO STREET
Oakland, California



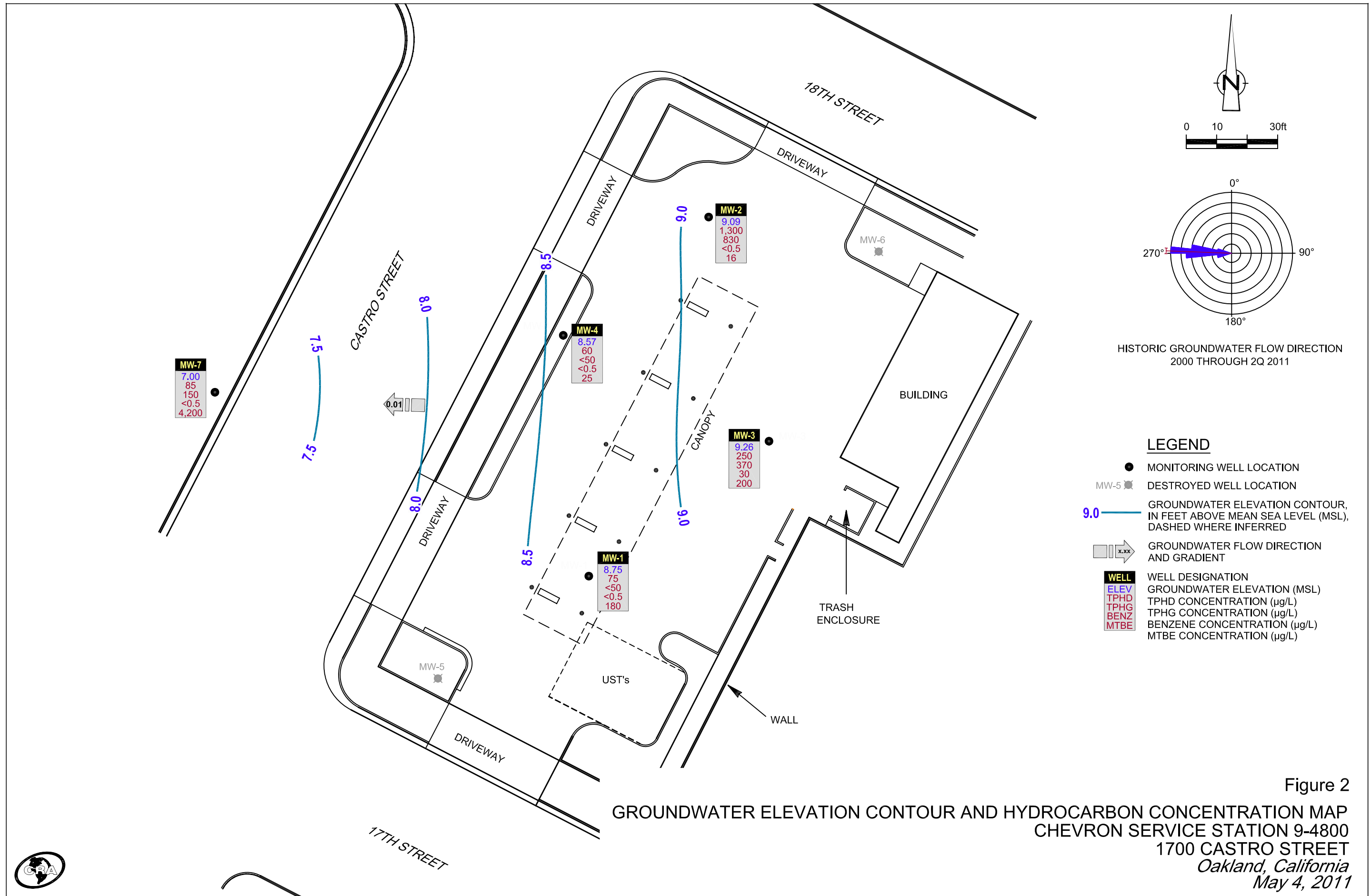


Figure 2
 GROUNDWATER ELEVATION CONTOUR AND HYDROCARBON CONCENTRATION MAP
 CHEVRON SERVICE STATION 9-4800
 1700 CASTRO STREET
 Oakland, California
 May 4, 2011



TABLE

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
 CHEVRON SERVICE STATION 9-4800
 1700 CASTRO STREET
 OAKLAND, CALIFORNIA

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCS						ADDITIONAL VOCS						
					TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	MTBE by VOC	MTBE by SW8240	MTBE by SW8260	ETHANOL	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-1	06/04/1997	30.75	25.82	4.39	71 ¹	-	890	100	110	29	150	<10	-	-	-	-	-	-	-	-
MW-1	09/16/1997	30.75	25.90	4.85	75 ¹	-	1,600	210	210	60	250	<10	-	-	-	-	-	-	-	-
MW-1	12/17/1997	30.75	25.87	4.88	65 ¹	-	940	120	100	41	160	<25	-	-	-	-	-	-	-	-
MW-1	03/18/1998	30.75	24.85	5.90	77 ¹	-	530	91	39	22	65	6.8	-	-	-	-	-	-	-	-
MW-1	06/28/1998	30.75	24.83	5.92	140 ¹	-	1,100	220	140	37	120	-	14	-	-	-	-	-	-	-
MW-1	09/07/1998	30.75	25.19	5.56	280 ¹	-	1,700	530	86	84	240	49	-	-	-	-	-	-	-	-
MW-1	12/09/1998	30.75	25.65	5.10	240 ¹	-	1,700	240	130	100	270	32	-	-	-	-	-	-	-	-
MW-1	03/11/1999	30.75	25.45	5.30	98 ¹	-	353	53.9	28.6	20.5	56.1	14.1	-	-	-	-	-	-	-	-
MW-1	06/17/1999	30.75	25.36	5.39	217 ¹	-	810	270	150	95	340	15	-	-	-	-	-	-	-	-
MW-1	09/29/1999	30.75	25.62	5.13	153 ¹	-	659	76	49.7	35.1	118	12.6	-	-	-	-	-	-	-	-
MW-1	12/14/1999	30.75	25.68	5.07	188 ^{1,2}	-	2,760	287	199	139	502	<12.5	-	-	-	-	-	-	-	-
MW-1	03/09/2000 ³	30.75	25.21	5.54	166 ¹	-	1,590	238	94.9	72.2	247	22.3	-	-	-	-	-	-	-	-
MW-1	06/10/2000	30.75	25.02	5.73	-	-	1,460	242	47.8	83.8	151	97.3	-	-	-	-	-	-	-	-
MW-1	09/30/2000	30.75	25.45	5.30	240 ⁷	-	650 ⁶	130	49	69	190	21	-	-	-	-	-	-	-	-
MW-1	12/22/2000	30.75	25.70	5.05	200 ⁹	-	640 ⁶	110	33	58	160	68	-	-	-	-	-	-	-	-
MW-1	03/01/2001	30.75	25.50	5.25	211 ⁷	-	1,500 ⁶	210	67.9	109	320	87.3	-	-	-	-	-	-	-	-
MW-1	05/04/2001	30.75	25.34	5.41	130 ⁷	-	991	127	32.6	73.0	137	95.4	-	-	-	-	-	-	-	-
MW-1	09/05/2001	30.75	25.59	5.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	12/21/2001	30.75	25.58	5.17	210	-	2,000	220	16	110	400	34	-	-	-	-	-	-	-	-
MW-1	03/15/2002	30.75	25.15	5.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	06/15/2002	30.75	25.26	5.49	140	-	350	54	0.61	12	40	130	-	-	-	-	-	-	-	-
MW-1	09/06/2002	30.75	25.49	5.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	12/06/2002	30.75	25.63	5.12	2,900	-	900	71	2.1	39	150	34	-	-	-	-	-	-	-	-
MW-1	03/03/2003	30.75	25.29	5.46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	06/17/2003 ¹⁴	30.75	25.11	5.64	180	-	290	34	0.6	23	90	-	-	92	-	-	-	-	-	-
MW-1	09/16/2003	30.75	25.38	5.37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	12/31/2003 ¹⁴	30.75	25.55	5.20	150	-	1,500	97	6	70	230	-	-	86	<50	-	-	-	-	-
MW-1	03/26/2004	30.75	25.01	5.74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	08/17/2004 ¹⁴	30.75	26.16	4.59	860	-	500	44	5	12	54	-	-	76	<50	-	-	-	-	-
MW-1	11/16/2004 ¹⁴	34.01	26.16	7.85	<26	-	570	33	<0.5	14	53	-	-	48	<50	-	-	-	-	-
MW-1	02/18/2005	34.01	25.76	8.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	05/06/2005 ¹⁴	34.01	25.39	8.62	110	-	170	13	<0.5	4	18	-	-	220	<50	-	-	-	-	-
MW-1	08/05/2005	34.01	25.70	8.31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
 CHEVRON SERVICE STATION 9-4800
 1700 CASTRO STREET
 OAKLAND, CALIFORNIA

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCS						ADDITIONAL VOCS						
					TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	MTBE by VOC	MTBE by SW8240	MTBE by SW8260	ETHANOL	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-1	11/07/2005 ¹⁴	34.01	26.02	7.99	260 ²⁰	-	180	7	<0.5	3	24	-	-	260	<50	-	-	-	-	-
MW-1	02/06/2006	34.01	25.68	8.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	05/08/2006 ¹⁴	34.01	24.98	9.03	730	-	270	23	<0.7	1	18	590	-	<50	-	-	-	-	-	-
MW-1	08/08/2006	34.01	25.52	8.49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	11/08/2006 ¹⁴	34.01	25.90	8.11	380	-	<50	0.6	<0.5	<0.5	2	140	-	<50	-	-	-	-	-	-
MW-1	02/06/2007	34.01	25.98	8.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	05/01/2007 ¹⁴	34.01	25.78	8.23	750	-	58	0.8	<0.5	<0.5	1	-	-	280	<50	-	-	-	-	-
MW-1	07/31/2007	34.01	26.00	8.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	11/08/2007 ¹⁴	34.01	26.16	7.85	330	-	<50	<0.5	<0.5	<0.5	0.9	-	-	270	<50	-	-	-	-	-
MW-1	02/04/2008	34.01	25.97	8.04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	05/01/2008 ¹⁴	34.01	25.95	8.06	86	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	470	<50	-	-	-	-	-
MW-1	08/01/2008	34.01	26.04	7.97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	11/13/2008 ¹⁴	34.01	26.13	7.88	<50	-	170	1	<0.5	<0.5	2	-	-	190	<50	-	-	-	-	-
MW-1	02/23/2009	34.01	25.94	8.07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	05/20/2009	34.01	25.63	8.38	88 J	-	<50	0.6 J	<0.5	<0.5	2	-	-	190	<50	-	-	-	-	-
MW-1	08/25/2009	34.01	25.80	8.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	11/18/2009	34.01	25.93	8.08	150	-	<50	<0.5	<0.5	0.6 J	<0.5	-	-	310	<50	-	-	-	-	-
MW-1	05/18/2010	34.01	25.54	8.47	110	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	230	<50	9	-	-	-	-
MW-1	12/01/2010	34.01	25.92	8.09	52 J	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	230	<50	-	-	-	-	-
MW-1	05/04/2011	34.01	25.26	8.75	-	75 J	<50	<0.5	<0.5	<0.5	<0.5	-	-	180	<50	-	-	-	-	-
MW-2	06/04/1997	30.00	24.87	5.13	4,000 ¹	-	13,000	790	30	420	1,700	4,000	-	-	-	-	-	-	-	-
MW-2	09/16/1997	30.00	24.94	5.06	2,200 ¹	-	4,000	360	9.7	210	460	1,500	-	-	-	-	-	-	-	-
MW-2	12/17/1997	30.00	24.82	5.18	2,100 ¹	-	4,100	380	<10	200	460	2,100	-	-	-	-	-	-	-	-
MW-2	03/18/1998	30.00	23.57	6.43	3,700 ¹	-	8,400	1,800	<50	350	630	13,000	-	-	-	-	-	-	-	-
MW-2	06/28/1998 ⁴	30.00	23.79	6.21	4,400 ¹	-	9,300	740	340	710	2,300	-	3,800	-	-	-	-	-	-	-
MW-2	09/07/1998	30.00	24.22	5.78	3,100 ¹	-	9,900	1,000	150	640	1,800	500 / 4,100	-	-	-	-	-	-	-	-
MW-2	12/09/1998	30.00	24.69	5.31	1,900 ¹	-	8,500	860	74	610	960	600 / 2,600	-	-	-	-	-	-	-	-
MW-2	03/11/1999	30.00	24.21	5.79	2,700 ¹	-	12,500	1,520	42.2	645	2,250	050 / 3,400	-	-	-	-	-	-	-	-
MW-2	06/17/1999	30.00	24.31	5.69	7,150 ¹	-	27,000	2,200	260	1,500	5,900	4,700	-	-	-	-	-	-	-	-
MW-2	09/29/1999	30.00	24.55	5.45	3,030 ¹	-	6,910	582	11.1	491	1,170	1,970	-	-	-	-	-	-	-	-
MW-2	12/14/1999	30.00	24.61	5.39	615 ^{1,2}	-	4,230	282	12.3	284	690	631	-	-	-	-	-	-	-	-
MW-2	03/09/2000 ³	30.00	23.92	6.08	3,300 ¹	-	15,300	1,110	39.4	1,040	3,030	2,470	-	-	-	-	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
 CHEVRON SERVICE STATION 9-4800
 1700 CASTRO STREET
 OAKLAND, CALIFORNIA

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCS						ADDITIONAL VOCS						
					TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	MTBE by VOC	MTBE by SW8240	MTBE by SW8260	ETHANOL	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-anst	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-2	06/10/2000	30.00	23.87	6.13	-	-	7,360	560	40.7	627	1,280	1,260	-	-	-	-	-	-	-	-
MW-2	09/30/2000	30.00	24.33	5.67	1,800 ⁷	-	3,600 ⁶	280	<10	420	430	290	-	-	-	-	-	-	-	-
MW-2	12/22/2000	30.00	24.61	5.39	870 ⁹	-	1,500 ⁶	100	<1.3	160	59	380	-	-	-	-	-	-	-	-
MW-2	03/01/2001	30.00	24.21	5.79	1,320 ⁷	-	2,340 ⁶	171	<5.00	238	157	864	-	-	-	-	-	-	-	-
MW-2	05/04/2001	30.00	24.17	5.83	3,100 ⁷	-	11,900	199	33.9	1,420	290	3,890	-	-	-	-	-	-	-	-
MW-2	09/05/2001	30.00	24.55	5.45	2,200	-	3,300	170	1.7	310	110	1,100	-	-	-	-	-	-	-	-
MW-2	12/21/2001	30.00	24.40	5.60	980	-	1,100	58	0.72	120	14	450	-	-	-	-	-	-	-	-
MW-2	03/15/2002	30.00	23.95	6.05	2,200	-	5,000	250	9.1	470	430	1,800	-	-	-	-	-	-	-	-
MW-2	06/15/2002	30.00	24.16	5.84	3,700	-	5,200	240	5.2	540	210	2,200	-	-	-	-	-	-	-	-
MW-2	09/06/2002	30.00	24.41	5.59	2,200	-	2,100	84	1.4	250	30	1,000	-	-	-	-	-	-	-	-
MW-2	12/06/2002	30.00	24.56	5.44	730	-	780	21	<0.50	58	3.4	480	-	-	-	-	-	-	-	-
MW-2	03/03/2003	30.00	24.21	5.79	3,500	-	4,800	220	1.9	650	46	4,400	-	-	-	-	-	-	-	-
MW-2	06/17/2003 ¹⁴	30.00	23.93	6.07	4,100	-	4,700	140	4	370	84	-	-	2,700	-	-	-	-	-	-
MW-2	09/16/2003 ¹⁴	30.00	24.31	5.69	1,800 ¹³	-	1,300	38	<1	110	3	-	-	1,300	<130	-	-	-	-	-
MW-2	12/31/2003 ¹⁴	30.00	24.36	5.64	330	-	990	11	<0.5	23	3	-	-	440	<50	-	-	-	-	-
MW-2	03/26/2004	30.00	23.75	6.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	08/17/2004 ¹⁴	30.00	24.47	5.53	400	-	300	9	<0.5	18	1	-	-	340	<50	-	-	-	-	-
MW-2	11/16/2004 ¹⁴	32.59	24.45	8.14	4,300	-	10,000	91	7	830	1,300	-	-	1,100	<100	-	-	-	-	-
MW-2	02/18/2005	32.59	23.92	8.67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	05/06/2005 ¹⁴	32.59	23.53	9.06	1,300	-	4,900	62	4	290	320	-	-	400	<50	-	-	-	-	-
MW-2	08/05/2005	32.59	23.98	8.61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	11/07/2005 ¹⁴	32.59	24.32	8.27	300 ²⁰	-	800	2	<0.5	<0.5	<0.5	-	-	66	<50	-	-	-	-	-
MW-2	02/06/2006	32.59	23.83	8.76	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	05/08/2006 ¹⁴	32.59	23.10	9.49	2,100	-	6,100	32	4	430	460	360	-	-	<50	-	-	-	-	-
MW-2	08/08/2006	32.59	23.80	8.79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	11/08/2006 ¹⁴	32.59	24.27	8.32	770	-	120	12	<0.5	0.7	8	840	-	-	<50	-	-	-	-	-
MW-2	02/06/2007	32.59	24.29	8.30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	05/01/2007 ¹⁴	32.59	24.05	8.54	160	-	850	<0.5	<0.5	16	36	-	-	100	<50	-	-	-	-	-
MW-2	07/31/2007	32.59	24.31	8.28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	11/08/2007 ¹⁴	32.59	24.47	8.12	800	-	180	<0.5	<0.5	<0.5	<0.5	-	-	37	<50	-	-	-	-	-
MW-2	02/04/2008	32.59	24.21	8.38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	05/01/2008 ¹⁴	32.59	24.25	8.34	500	-	430	<0.5	<0.5	<0.5	5	-	-	120	<50	-	-	-	-	-
MW-2	08/01/2008	32.59	24.33	8.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
 CHEVRON SERVICE STATION 9-4800
 1700 CASTRO STREET
 OAKLAND, CALIFORNIA

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCS						ADDITIONAL VOCS						
					TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	MTBE by VOC	MTBE by SW8240	MTBE by SW8260	ETHANOL	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-2	11/13/2008 ¹⁴	32.59	24.42	8.17	2,600	-	2,500	3	1	190	83	-	-	240	<50	-	-	-	-	-
MW-2	02/23/2009	32.59	24.21	8.38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	05/20/2009	32.59	23.65	8.94	2,800 J	-	4,000	4	1	42	55	-	-	160	<50	-	-	-	-	-
MW-2	08/25/2009	32.59	24.00	8.59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	11/18/2009	32.59	24.51	8.08	2,800	-	5,400	4	1 J	69	34	-	-	79	<100	-	-	-	-	-
MW-2	05/18/2010	32.59	23.65	8.94	1,100	-	580	<0.5	<0.5	<0.5	<0.5	-	-	22	<50	6	-	-	-	-
MW-2	12/01/2010	32.59	24.20	8.39	930	-	230	<0.5	<0.5	<0.5	<0.5	-	-	20	<50	-	-	-	-	-
MW-2	05/04/2011	32.59	23.50	9.09	-	1,300	830	<0.5	<0.5	51	10	-	-	16	<50	-	-	-	-	-
MW-3	06/04/1997	31.32	26.05	5.27	<50	-	190	26	20	1.5	16	8.2	-	-	-	-	-	-	-	-
MW-3	09/16/1997	31.32	26.15	5.17	<50	-	270	58	53	6.1	30	21	-	-	-	-	-	-	-	-
MW-3	12/17/1997	31.32	26.10	5.22	<50	-	290	50	54	8.1	37	21	-	-	-	-	-	-	-	-
MW-3	03/18/1998	31.32	24.90	6.42	<50	-	390	140	33	4.6	30	94	-	-	-	-	-	-	-	-
MW-3	06/28/1998	31.32	24.93	6.39	<50	-	290	90	11	1.6	13	-	150	-	-	-	-	-	-	-
MW-3	09/07/1998	31.32	25.35	5.97	<50	-	170	46	20	4.3	19	120	-	-	-	-	-	-	-	-
MW-3	12/09/1998	31.32	25.91	5.41	55 ¹	-	660	120	93	22	72	150	-	-	-	-	-	-	-	-
MW-3	03/11/1999	31.32	25.47	5.85	<50	-	653	136	69.5	13.7	63.8	144	-	-	-	-	-	-	-	-
MW-3	06/17/1999	31.32	25.42	5.90	103 ¹	-	530	190	110	24	88	210	-	-	-	-	-	-	-	-
MW-3	09/29/1999	31.32	25.71	5.61	232 ¹	-	433	97.8	61.4	16.9	56.6	156	-	-	-	-	-	-	-	-
MW-3	12/14/1999	31.32	25.77	5.55	<50 ²	-	8,650	1,040	795	212	800	995	-	-	-	-	-	-	-	-
MW-3	03/09/2000 ³	31.32	25.18	6.14	74.6 ¹	-	1,170	304	103	25.2	114	539	-	-	-	-	-	-	-	-
MW-3	06/10/2000	31.32	25.03	6.29	-	-	359	63.8	27.8	10.5	35.4	393	-	-	-	-	-	-	-	-
MW-3	09/30/2000	31.32	25.53	5.79	100 ⁸	-	220 ⁶	42	33	12	38	67	-	-	-	-	-	-	-	-
MW-3	12/22/2000	31.32	25.80	5.52	110 ⁹	-	370 ⁶	96	48	18	58	180	-	-	-	-	-	-	-	-
MW-3	03/01/2001	31.32	25.57	5.75	144 ⁷	-	912 ⁶	218	89.0	36.0	110	310	-	-	-	-	-	-	-	-
MW-3	05/04/2001	31.32	25.36	5.96	<50	-	1,260	146	79.6	38.2	101	1,070	-	-	-	-	-	-	-	-
MW-3	09/05/2001	31.32	25.71	5.61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	12/21/2001	31.32	25.65	5.67	180	-	850	160	11	32	84	300	-	-	-	-	-	-	-	-
MW-3	03/15/2002	31.32	25.17	6.15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	06/15/2002	31.32	25.31	6.01	<50	-	550	110	3.0	23	58	590	-	-	-	-	-	-	-	-
MW-3	09/06/2002	31.32	25.58	5.74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	12/06/2002	31.32	25.76	5.56	160	-	350	60	1.3	11	32	530	-	-	-	-	-	-	-	-
MW-3	03/03/2003	31.32	25.40	5.92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
 CHEVRON SERVICE STATION 9-4800
 1700 CASTRO STREET
 OAKLAND, CALIFORNIA

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCS						ADDITIONAL VOCS						
					TPH-DRO	TPH-DRO w/ St Gel	TPH-GRO	B	T	E	X	MTBE by VOC	MTBE by SW8240	MTBE by SW8260	ETHANOL	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-3	06/17/2003 ¹⁴	31.32	25.13	6.19	130	-	560	90	2	19	57	-	-	590	-	-	-	-	-	-
MW-3	09/16/2003	31.32	25.47	5.85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	12/31/2003 ¹⁴	31.32	25.65	5.67	120	-	840	140	24	25	87	-	-	670	66	-	-	-	-	-
MW-3	03/26/2004	31.32	24.99	6.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	08/17/2004 ¹⁴	31.32	25.86	5.46	110	-	630	84	18	11	35	-	-	410	<50	-	-	-	-	-
MW-3	11/16/2004 ¹⁴	34.16	25.90	8.26	92	-	740	100	4	21	45	-	-	460	<50	-	-	-	-	-
MW-3	02/18/2005	34.16	25.37	8.79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	05/06/2005 ¹⁴	34.16	24.98	9.18	83	-	290	43	<1	6	11	-	-	740	<100	-	-	-	-	-
MW-3	08/05/2005	34.16	25.35	8.81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	11/07/2005 ¹⁴	34.16	25.69	8.47	66	-	220	29	0.7	3	26	-	-	440	<50	-	-	-	-	-
MW-3	02/06/2006	34.16	25.28	8.88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	05/08/2006 ¹⁴	34.16	24.49	9.67	310	-	560	70	<1	3	24	3,300	-	-	<100	-	-	-	-	-
MW-3	08/08/2006	34.16	25.16	9.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	11/08/2006 ¹⁴	34.16	25.59	8.57	210	-	510	<0.5	<0.5	<0.5	<0.5	73	-	-	<50	-	-	-	-	-
MW-3	02/06/2007	34.16	25.68	8.48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	05/01/2007 ¹⁴	34.16	25.46	8.70	84	-	260	36	<0.5	0.8	18	-	-	1,200	<50	-	-	-	-	-
MW-3	07/31/2007	34.16	25.70	8.46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	11/08/2007 ¹⁴	34.16	25.87	8.29	260	-	270	32	0.9	3	29	-	-	440	<50	-	-	-	-	-
MW-3	02/04/2008	34.16	25.68	8.48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	05/01/2008 ¹⁴	34.16	25.66	8.50	82	-	240	30	<0.5	<0.5	20	-	-	690	<50	-	-	-	-	-
MW-3	08/01/2008	34.16	25.76	8.40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	11/13/2008 ¹⁴	34.16	25.80	8.36	<50	-	720	22	<0.5	<0.5	7	-	-	790	<50	-	-	-	-	-
MW-3	02/23/2009	34.16	25.72	8.44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	05/20/2009	34.16	25.30	8.86	210	-	460	42	<0.5	1	20	-	-	450	<50	-	-	-	-	-
MW-3	08/25/2009	34.16	25.56	8.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	11/18/2009	34.16	25.71	8.45	240	-	280	25	<0.5	<0.5	9	-	-	170	<50	-	-	-	-	-
MW-3	05/18/2010	34.16	25.11	9.05	150	-	63 J	11	<0.5	<0.5	1	-	-	110	<50	470	-	-	-	-
MW-3	12/01/2010	34.16	25.69	8.47	110	-	78 J	6	<0.5	<0.5	3	-	-	19	<50	-	-	-	-	-
MW-3	05/04/2011	34.16	24.90	9.26	-	250	370	30	<0.5	<0.5	8	-	-	200	<50	-	-	-	-	-
MW-4	04/08/1999	30.13	-	-	-	-	130	3.1	<0.5	<0.5	7.7	,700 / 5,40	-	-	<25,000	<5,000	<100	<100	<100	<100
MW-4	06/17/1999	30.13	24.94	5.19	3,780 ¹	-	590	58	<5.0	<5.0	160	6,200	-	-	-	-	-	-	-	-
MW-4	09/29/1999	30.13	25.17	4.96	1,130 ¹	-	692	10.7	<2.5	5.51	236	7,840	-	-	-	-	-	-	-	-

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 CHEVRON SERVICE STATION 9-4800
 1700 CASTRO STREET
 OAKLAND, CALIFORNIA

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCS						ADDITIONAL VOCS						
					TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	MTBE by VOC	MTBE by SW8240	MTBE by SW8260	ETHANOL	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-4	12/14/1999	30.13	25.22	4.91	571 ^{1,2}	-	625	<10	3.83	<10	94.6	4,470	-	-	-	-	-	-	-	-
MW-4	03/09/2000 ³	30.13	24.68	5.45	600 ¹	-	402	3.76	1.18	<0.5	71.4	3,140	-	-	-	-	-	-	-	-
MW-4	06/10/2000	30.13	24.60	5.53	-	-	<1,000	13.2	<10.0	<10.0	97.8	3,080	-	-	-	-	-	-	-	-
MW-4	09/30/2000	30.13	25.04	5.09	1,400 ⁷	-	280 ⁶	21	0.67	6.3	60	3,300	-	-	-	-	-	-	-	-
MW-4	12/22/2000	30.13	25.23	4.90	740 ⁹	-	240 ⁶	2.2	<0.50	1.3	25	2,200	-	-	-	-	-	-	-	-
MW-4	03/01/2001	30.13	24.98	5.15	661 ⁷	-	193	2.31	<0.500	1.34	12.1	1,220	-	-	-	-	-	-	-	-
MW-4	05/04/2001	30.13	24.88	5.25	1,100 ⁷	-	722	12.0	<5.00	17.1	89.4	2,390	-	-	-	-	-	-	-	-
MW-4	09/05/2001	30.13	25.17	4.96	2,500	-	1,400	23	2.2	19	260	2,300	-	-	-	-	-	-	-	-
MW-4	12/21/2001	30.13	25.07	5.06	1,100	-	310	2.9	<0.50	2.6	32	860	-	-	-	-	-	-	-	-
MW-4	03/15/2002	30.13	24.69	5.44	3,100	-	520	5.0	<0.50	15	6.8	2,700	-	-	-	-	-	-	-	-
MW-4	06/15/2002	30.13	24.84	5.29	2,400	-	950	16	3.6	41	100	2,200	-	2,400 ¹²	-	840	<2.0	<2.0	110	-
MW-4	09/06/2002	30.13	25.06	5.07	2,600	-	640	9.6	0.52	9.8	28	1,700	-	-	-	-	-	-	-	-
MW-4	12/06/2002	30.13	25.20	4.93	1,400	-	280	3.6	<0.50	1.7	<1.5	730	-	-	-	-	-	-	-	-
MW-4	03/03/2003	30.13	24.85	5.28	1,500	-	280	2.7	<0.50	7.3	2.3	910	-	-	-	-	-	-	-	-
MW-4	06/17/2003 ¹⁴	30.13	24.69	5.44	2,000	-	660	8	1	38	16	-	-	1,100	-	520	<0.5	<0.5	110	-
MW-4	09/16/2003 ¹⁴	30.13	24.98	5.15	2,100 ¹⁶	-	480	6	<1	11	3	-	-	710	<100	-	-	-	-	-
MW-4	12/31/2003 ¹⁴	30.13	25.06	5.07	1,400	-	220	3	<0.5	2	<0.5	-	-	390	<50	-	-	-	-	-
MW-4	03/26/2004	30.13	24.53	5.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	08/17/2004 ¹⁴	30.13	25.45	4.68	2,100	-	470	12	1	28	4	-	-	370	<50	66	<0.5	<0.5	50	-
MW-4	11/16/2004 ¹⁴	33.07	25.44	7.63	960	-	270	7	<0.5	7	6	-	-	270	<50	-	-	-	-	-
MW-4	02/18/2005	33.07	25.00	8.07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	05/06/2005 ¹⁴	33.07	24.69	8.38	350	-	86	0.7	<0.5	<0.5	<0.5	-	-	110	<50	21	<0.5	<0.5	8	-
MW-4	08/05/2005	33.07	25.02	8.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	11/07/2005 ¹⁴	33.07	25.33	7.74	150	-	54	0.6	<0.5	<0.5	<0.5	-	-	59	<50	-	-	-	-	-
MW-4	02/06/2006	33.07	24.94	8.13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	05/08/2006 ¹⁴	33.07	24.27	8.80	200	-	66	0.5	<0.5	<0.5	<0.5	92	-	-	<50	-	-	-	-	-
MW-4	08/08/2006	33.07	25.16	7.91	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	11/08/2006 ¹⁴	33.07	25.23	7.84	400	-	55	<0.5	<0.5	<0.5	<0.5	40	-	-	<50	-	-	-	-	-
MW-4	02/06/2007	33.07	25.28	7.79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	05/01/2007 ¹⁴	33.07	25.08	7.99	150	-	67	<0.5	<0.5	<0.5	<0.5	-	-	76	<50	10	<0.5	<0.5	6	-
MW-4	07/31/2007	33.07	25.27	7.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	11/08/2007 ¹⁴	33.07	25.42	7.65	850	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	44	<50	-	-	-	-	-
MW-4	02/04/2008	33.07	25.23	7.84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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 CHEVRON SERVICE STATION 9-4800
 1700 CASTRO STREET
 OAKLAND, CALIFORNIA

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCS						ADDITIONAL VOCS						
					TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	MTBE by VOC	MTBE by SW8240	MTBE by SW8260	ETHANOL	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-4	05/01/2008 ¹⁴	33.07	25.21	7.86	110	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	67	<50	12	<0.5	<0.5	4	
MW-4	08/01/2008	33.07	25.28	7.79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-4	11/13/2008 ¹⁴	33.07	25.43	7.64	330	-	64	<0.5	<0.5	<0.5	1	-	-	220	<50	-	-	-	-	
MW-4	02/23/2009	33.07	25.06	8.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-4	05/20/2009	33.07	24.73	8.34	560	-	130	<0.5	<0.5	<0.5	<0.5	-	-	190	<50	58	<0.5	<0.5	6	
MW-4	08/25/2009	33.07	24.97	8.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-4	11/18/2009	33.07	25.27	7.80	860	-	120	<0.5	<0.5	<0.5	<0.5	-	-	150	<50	-	-	-	-	
MW-4	05/18/2010	33.07	24.73	8.34	340	-	56 J	<0.5	<0.5	<0.5	<0.5	-	-	70	<50	33	<0.5	<0.5	4	
MW-4	12/01/2010	33.07	25.13	7.94	570	-	64 J	<0.5	<0.5	<0.5	<0.5	-	-	110	<50	-	-	-	-	
MW-4	05/04/2011	33.07	24.50	8.57	-	60 J	<50	<0.5	<0.5	<0.5	<0.5	-	-	25	<50	49	<0.5	<0.5	<0.5	
MW-5	04/08/1999	30.93	-	-	<50	-	<50	<0.5	<0.5	<0.5	<0.5	<2.0 / <2.5	-	-	<500	<100	<2.0	<2.0	<2.0	
MW-5	06/17/1999	30.93	26.00	4.93	53.8 ¹	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	
MW-5	09/29/1999	30.93	26.20	4.73	<50	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	
MW-5	12/14/1999	30.93	26.32	4.61	<50 ²	-	<50	<0.5	<0.5	<0.5	<0.5	0.598	-	-	-	-	-	-	-	
MW-5	03/09/2000 ³	30.93	25.93	5.00	<50	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	
MW-5	06/10/2000	30.93	25.72	5.21	-	-	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	-	-	-	-	-	-	-	
MW-5	09/30/2000	30.93	26.14	4.79	130 ⁸	-	<50	<0.50	<0.50	<0.50	<0.50	<2.5	-	-	-	-	-	-	-	
MW-5	12/22/2000	30.93	26.33	4.60	250 ⁸	-	<50	<0.50	<0.50	<0.50	<0.50	9.1	-	-	-	-	-	-	-	
MW-5	03/01/2001	30.93	26.16	4.77	77.4 ⁷	-	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	-	-	-	-	-	-	-	
MW-5	05/04/2001	30.93	26.04	4.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-5	09/05/2001	30.93	26.21	4.72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-5	12/21/2001	30.93	26.20	4.73	110	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-	-	
MW-5	03/15/2002	30.93	25.87	5.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-5	06/15/2002	30.93	25.98	4.95	<50	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-	-	
MW-5	09/06/2002	30.93	26.18	4.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-5	12/06/2002	30.93	26.32	4.61	<50	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-	-	
MW-5	03/03/2003	30.93	25.99	4.94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-5	06/17/2003 ¹⁴	30.93	25.87	5.06	<50	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	
MW-5	09/16/2003	30.93	26.09	4.84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-5	12/31/2003 ¹⁴	30.93	26.21	4.72	<50	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<50	-	-	-	-	
MW-5	03/26/2004	30.93	25.74	5.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-5	08/17/2004	30.93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
 CHEVRON SERVICE STATION 9-4800
 1700 CASTRO STREET
 OAKLAND, CALIFORNIA

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCS						ADDITIONAL VOCS						
					TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	MTBE by VOC	MTBE by SW8240	MTBE by SW8260	ETHANOL	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-6	04/08/1999	30.58	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	5.6 / 4.5	-	-	<500	<100	<2.0	<2.0	<2.0	
MW-6	06/17/1999	30.58	24.59	5.99	<50	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	
MW-6	09/29/1999	30.58	24.77	5.81	<50	-	<50	<0.5	<0.5	<0.5	<0.5	4.46	-	-	-	-	-	-	-	
MW-6	12/14/1999	30.58	24.84	5.74	<50 ²	-	<50	<0.5	<0.5	<0.5	<0.5	4.13	-	-	-	-	-	-	-	
MW-6	03/09/2000 ³	30.58	24.09	6.49	<50	-	<50	<0.5	<0.5	<0.5	<0.5	2.82	-	-	-	-	-	-	-	
MW-6	06/10/2000	30.58	24.00	6.58	-	-	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	-	-	-	-	-	-	-	
MW-6	09/30/2000	30.58	24.58	6.00	110 ⁸	-	<50	<0.50	<0.50	<0.50	<0.50	7.3	-	-	-	-	-	-	-	
MW-6	12/22/2000	30.58	24.83	5.75	100 ⁸	-	<50	<0.50	<0.50	<0.50	<0.50	4.5	-	-	-	-	-	-	-	
MW-6	03/01/2001	30.58	24.51	6.07	141 ⁷	-	<50.0	<0.500	<0.500	<0.500	<0.500	7.52	-	-	-	-	-	-	-	
MW-6	05/04/2001	30.58	24.32	6.26	<50	-	<50.0	<0.500	<5.00	<5.00	<5.00	2.74	-	-	-	-	-	-	-	
MW-6	09/05/2001	30.58	24.59	5.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-6	12/21/2001	30.58	24.65	5.93	200	-	<50	<0.50	<0.50	<0.50	<1.5	8.5	-	-	-	-	-	-	-	
MW-6	03/15/2002	30.58	24.14	6.44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-6	06/15/2002	30.58	24.33	6.25	<50	-	<50	<0.50	<0.50	<0.50	<1.5	4.3	-	-	-	-	-	-	-	
MW-6	09/06/2002	30.58	24.60	5.98	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-6	12/06/2002	30.58	24.79	5.79	64	-	<50	<0.50	<0.50	<0.50	<1.5	5.0	-	-	-	-	-	-	-	
MW-6	03/03/2003	30.58	24.44	6.14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-6	06/17/2003 ¹⁴	30.58	24.11	6.47	<50	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	13	-	-	-	-	-	
MW-6	09/16/2003	30.58	24.52	6.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-6	12/31/2003 ¹⁴	30.58	24.58	6.00	<50	-	<50	<0.5	<0.5	<0.5	0.5	-	-	14	<50	-	-	-	-	
MW-6	03/26/2004	30.58	23.89	6.69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-6	08/17/2004	30.58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-7	05/04/2001 ¹¹	31.90	27.87	4.03	<50	-	<50.0	<0.500	<5.00	<5.00	<5.00	567	-	470 ¹²	<500	57	<2.0	<2.0	11	
MW-7	09/05/2001	31.90	28.04	3.86	<50	-	<50	<0.50	<0.50	<0.50	<1.5	1,400	-	1,300 ¹²	<500	<100	<2.0	<2.0	32	
MW-7	12/21/2001	31.90	28.86	3.04	210	-	<50	<0.50	<0.50	<0.50	<1.5	620	-	670 ¹²	<500	<100	<2.0	<2.0	15	
MW-7	03/15/2002	31.90	27.72	4.18	<50	-	<50	<0.50	<0.50	<0.50	<1.5	350 / 320	-	350 ¹²	<500	<100	<2.0	<2.0	8	
MW-7	06/15/2002	31.90	27.84	4.06	<50	-	<50	<0.50	<0.50	<0.50	<1.5	850	-	960 ¹²	-	<100	<2.0	<2.0	18	
MW-7	09/06/2002	31.90	27.97	3.93	<50	-	59	<0.50	<0.50	<0.50	<1.5	1,900	-	-	-	-	-	-	-	
MW-7	12/06/2002	31.90	28.03	3.87	<50	-	68	<0.50	<0.50	<0.50	<1.5	2,200	-	-	-	-	-	-	-	
MW-7	03/03/2003	31.90	27.69	4.21	<50	-	<50	<0.50	<0.50	<0.50	<1.5	1,300	-	-	-	-	-	-	-	
MW-7	06/17/2003 ¹⁴	31.90	27.76	4.14	<50	-	79	<0.5	<0.5	<0.5	<0.5	-	-	2,500	-	37	<0.5	<0.5	53	

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
 CHEVRON SERVICE STATION 9-4800
 1700 CASTRO STREET
 OAKLAND, CALIFORNIA

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCS						ADDITIONAL VOCS						
					TPH-DRO	TPH-DRO w/ Sl Gel	TPH-GRO	B	T	E	X	MTBE by VOC	MTBE by SW8240	MTBE by SW8260	ETHANOL	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-7	09/16/2003 ¹⁴	31.90	27.83	4.07	<50 ¹⁷	-	110	<5	<5	<5	<5	-	-	4,400	<500	-	-	-	-	-
MW-7	12/31/2003 ¹⁴	31.90	27.86	4.04	<50	-	76	<2.0	<2.0	<2.0	<2.0	-	-	3,000	<200	-	-	-	-	-
MW-7	03/26/2004 ¹⁴	31.90	27.65	4.25	<50	-	61	<1	<1	<1	<1	-	-	2,000	-	-	-	-	-	-
MW-7	08/17/2004 ¹⁴	31.90	27.88	4.02	2,200	-	130	<5	<5	<5	<5	-	-	8,000	<500	<50	<5	<5	140	-
MW-7	11/16/2004 ¹⁴	34.35	27.87	6.48	<50	-	200	<3	<3	<3	<3	-	-	7,300	<250	-	-	-	-	-
MW-7	02/18/2005 ¹⁴	34.35	27.60	6.75	64	-	86	<10	<10	<10	<10	-	-	5,700	<1,000	-	-	-	-	-
MW-7	05/06/2005 ¹⁴	34.35	27.43	6.92	60	-	160	<5	<5	<5	<5	-	-	8,400	<500	<50	<5	<5	140	-
MW-7	08/05/2005 ¹⁴	34.35	27.65	6.70	81 ¹⁸	-	500	<5	<5	<5	<5	-	-	20,000 ¹⁹	<500	-	-	-	-	-
MW-7	11/07/2005 ¹⁴	34.35	27.79	6.56	68	-	300	<10	<10	<10	<10	-	-	24,000	<1,000	-	-	-	-	-
MW-7	02/06/2006 ¹⁴	34.35	27.54	6.81	72 ²¹	-	300	<0.5	<0.5	<0.5	<0.5	14,000	-	-	<50	-	-	-	-	-
MW-7	05/08/2006 ¹⁴	34.35	27.15	7.20	94	-	80	<2.0	<2.0	3	7	6,500	-	-	<200	-	-	-	-	-
MW-7	08/08/2006 ¹⁴	34.35	27.53	6.82	150	-	520	<10	<10	<10	<10	17,000	-	-	<1,000	-	-	-	-	-
MW-7	11/08/2006 ¹⁴	34.35	27.75	6.60	440	-	900	<5	<5	<5	<5	41,000	-	-	<500	-	-	-	-	-
MW-7	02/06/2007 ¹⁴	34.35	27.76	6.59	200	-	590	<5	<5	<5	<5	-	-	31,000	<500	-	-	-	-	-
MW-7	05/01/2007 ¹⁴	34.35	27.65	6.70	190	-	380	<3	<3	<3	<3	-	-	14,000	<250	<10	<3	<3	260	-
MW-7	07/31/2007 ¹⁴	34.35	27.75	6.60	270	-	570	<3	<3	<3	<3	-	-	15,000	<250	-	-	-	-	-
MW-7	11/08/2007 ¹⁴	34.35	27.83	6.52	150	-	520	<5	<5	<5	<5	-	-	25,000	<500	-	-	-	-	-
MW-7	02/04/2008 ¹⁴	34.35	27.69	6.66	87	-	540	<1	<1	<1	<1	-	-	17,000	<100	-	-	-	-	-
MW-7	05/01/2008 ¹⁴	34.35	27.72	6.63	<50	-	230	<5	<5	<5	<5	-	-	10,000	<500	<20	<5	<5	170	-
MW-7	08/01/2008 ¹⁴	34.35	27.84	6.51	<50	-	330	<3	<3	<3	<3	-	-	12,000	<250	-	-	-	-	-
MW-7	11/13/2008 ¹⁴	34.35	28.01	6.34	64	-	390	<10	<10	<10	<10	-	-	16,000	<1,000	-	-	-	-	-
MW-7	02/23/2009 ¹⁴	34.35	27.65	6.70	100	-	270	<3	<3	<3	<3	-	-	11,000	<250	-	-	-	-	-
MW-7	05/20/2009	34.35	27.55	6.80	48 J	-	210	<1	<1	<1	<1	-	-	6,300	<100	31	<1	<1	120	-
MW-7	08/25/2009	34.35	27.70	6.65	<100 U	-	160	<3	<3	<3	<3	-	-	5,700	<250	-	-	-	-	-
MW-7	11/18/2009	34.35	27.77	6.58	250	-	100	<1	<1	<1	<1	-	-	2,800	<130	-	-	-	-	-
MW-7	05/18/2010	34.35	27.51	6.84	160	-	76 J	<1	<1	<1	<1	-	-	2,400	<100	<4	<1	2	52	-
MW-7	12/01/2010	34.35	27.71	6.64	120	-	230	<0.5	<0.5	<0.5	<0.5	-	-	7,000	<50	-	-	-	-	-
MW-7	05/04/2011	34.35	27.35	7.00	-	85 J	150	<0.5	<0.5	<0.5	<0.5	-	-	4,200	<50	<2	<0.5	1	100	-
QA	12/21/2001	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-	-	-
QA	03/15/2002	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-	-	-
QA	06/15/2002	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-	-	-
QA	09/06/2002	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-	-	-

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					TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	MTBE by VOC	MTBE by SW8240	MTBE by SW8260	ETHANOL	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
QA	12/06/2002	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-	-	-
QA	06/17/2003 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	09/16/2003 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	12/31/2003 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	03/26/2004 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	08/17/2004 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	11/16/2004 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	02/18/2005 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	05/06/2005 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	08/05/2005 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	11/07/2005 ¹⁴	-	-	-	-	-	<50	0.6	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	02/06/2006 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	-	-	-	-	-
QA	05/08/2006 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	-	-	-	-	-
QA	08/08/2006 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	-	-	-	-	-
QA	11/08/2006 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	-	-	-	-	-
QA	02/06/2007 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	05/01/2007 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	07/31/2007 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	11/08/2007 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	02/04/2008 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	05/01/2008 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	08/01/2008 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	11/13/2008 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	02/23/2009 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	05/20/2009	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	08/25/2009	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	11/18/2009	-	-	-	-	-	<50	<0.5	0.5 J	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	05/18/2010	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	12/01/2010	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	05/04/2011	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
Trip Blank	06/04/1997	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
Trip Blank	09/16/1997	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
 CHEVRON SERVICE STATION 9-4800
 1700 CASTRO STREET
 OAKLAND, CALIFORNIA

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCS						ADDITIONAL VOCS						
					TPH-DRO	TPH-DRO w/ St Gel	TPH-GRO	B	T	E	X	MTBE by VOC	MTBE by SW8240	MTBE by SW8260	ETHANOL	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Trip Blank	12/17/1997	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-
Trip Blank	03/18/1998	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-
Trip Blank	06/28/1998	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<2.5	-	-	-	-	-	-
Trip Blank	09/07/1998	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-
Trip Blank	12/09/1998	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-
Trip Blank	03/11/1999	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	-	-	-	-	-	-	-
Trip Blank	06/17/1999	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-
Trip Blank	12/14/1999	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-
Trip Blank	03/09/2000 ³	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-
Trip Blank	06/10/2000	-	-	-	-	-	<50.0	<0.500	<0.500	<0.500	<0.500	<0.500	<2.50	-	-	-	-	-	-	-
Trip Blank	09/30/2000	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	-	-	-	-	-	-	-
Trip Blank	12/22/2000 ¹⁰	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	-	-	-	-	-	-	-
Trip Blank	03/01/2001	-	-	-	-	-	<50.0	<0.500	<0.500	<0.500	<0.500	<0.500	<2.50	-	-	-	-	-	-	-
Trip Blank	05/04/2001	-	-	-	-	-	<50.0	<0.500	<5.00	<5.00	<5.00	<5.00	<0.500	-	-	-	-	-	-	-
Trip Blank	09/05/2001	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-	-

Abbreviations and Notes:

TOC = Top of Casing

DTW = Depth to Water

GWE = Groundwater elevation

(ft-amsl) = Feet Above Mean sea level

ft = Feet

µg/L = Micrograms per Liter

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

VOCS = Volatile Organic Compounds

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylene

MTBE = Methyl tert butyl ether

TBA = Tert-Butyl alcohol

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
 CHEVRON SERVICE STATION 9-4800
 1700 CASTRO STREET
 OAKLAND, CALIFORNIA

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCS						ADDITIONAL VOCS					
					TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	MTBE by VOC	MTBE by SW8240	MTBE by SW8260	ETHANOL	TBA	DIPE	ETBE	TAME
Units		ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L

DIPE = Diisopropyl ether

ETBE = Tert-Butyl ethyl ether

TAME = Tert-Amyl methyl ether

-- = Not available / not applicable

<x = Not detected above laboratory method detection limit

J = Estimated concentration

- 1 Chromatogram pattern indicates an unidentified hydrocarbon.
- 2 Sample was extracted outside EPA recommended holding time.
- 3 TPH-G, BTEX and MTBE was analyzed outside EPA recommended holding time.
- 4 EPA Method 8240.
- 5 Confirmation run.
- 6 Laboratory report indicates gasoline C6-C12.
- 7 Laboratory report indicates unidentified hydrocarbons C9-C24.
- 8 Laboratory report indicates unidentified hydrocarbons >C16.
- 9 Laboratory report indicates unidentified hydrocarbons C9-C40.
- 10 Laboratory report indicates this sample was analyzed outside of the EPA recommended holding time.
- 11 Well development performed.
- 12 MTBE by EPA Method 8260.
- 14 BTEX and MTBE by EPA Method 8260.
- 15 Laboratory report indicates the surrogate data for the method blank is outside QC limits. Results from the re-extraction are within the limits. The hold time had expired prior to re-extraction so all results are reported from the original extract. The TPH-D result from the re-extraction is 910 ppb.
- 16 Laboratory report indicates the surrogate data for the method blank is outside QC limits. Results from the re-extraction are within the limits. The hold time had expired prior to re-extraction so all results are reported from the original extract. The TPH-D result from the re-extraction is 1,700 ppb.
- 17 Laboratory report indicates the surrogate data for the method blank is outside QC limits. Results from the re-extraction are within the limits. The hold time had expired prior to re-extraction so all results are reported from the original extract. Similar results were obtained in both extracts.
- 18 Laboratory report indicates the observed sample pattern is not typical of #2 fuel/diesel. It elutes in the DRO range later than #2 fuel.
- 19 Analytical result confirmed.
- 20 Laboratory report indicates the observed sample pattern includes #2 fuel/diesel and an additional pattern which elutes later in the DRO range.
- 21 Laboratory report indicates the observed sample pattern is not typical of #2 fuel/diesel. The reported result is due to individual peak(s) eluting in the DRO range.

ATTACHMENT A

MONITORING DATA PACKAGE



May 5, 2011

Chevron Environmental Management Company
Dave Patten
6111 Bollinger Canyon Rd.
San Ramon, CA 94583

Second Quarter 2011 Monitoring at
Chevron Service Station 94800
1700 Castro St.
Oakland, CA

Monitoring performed on May 4, 2011

Blaine Tech Services, Inc. Groundwater Monitoring Event 110504-PH2

This submission covers the routine monitoring of groundwater wells conducted on May 4, 2011 at this location. Five monitoring wells were measured for depth to groundwater (DTW). Five monitoring wells were sampled. All sampling activities were performed in accordance with local, state and federal guidelines.

Water levels measurements were collected using an electronic slope indicator. All sampled wells were purged of three case volumes, depending on well recovery, or until water temperature, pH and conductivity stabilized. Purging was accomplished using electric submersible pumps, positive air-displacement pumps or stainless steel, Teflon or disposable bailers. Subsequent sample collection and sample handling was performed in accordance with EPA protocols using disposable bailers. Alternately, where applicable, wells were sampled utilizing no-purge methodology. All reused equipment was decontaminated in an integrated stainless steel sink with de-ionized water supplied Hotsy pressure washer and Liquinox or equivalent.

Second Quarter Groundwater Monitoring at Chevron 94800, 1700 Castro St., Oakland, CA

SAN JOSE

SACRAMENTO

LOS ANGELES

SAN DIEGO

1680 ROGERS AVENUE

SAN JOSE, CA 95112-1105

(408) 573-0555

FAX (408) 573-7771

LIC. 746684

www.blainetech.com

Samples were delivered under chain-of-custody to Lancaster Laboratories of Lancaster, Pennsylvania, for analysis. Monitoring well purgewater and equipment rinsate water was collected and transported under bill-of-lading to IWM facilities of San Jose, California.

Enclosed documentation from this event includes copies of the Well Gauging Sheet, Well Monitoring Data Sheets, and Chain-of-Custody.

Blaine Tech Services, Inc.'s activities at this site consisted of objective data and sample collection only. No interpretation of analytical results, defining of hydrogeologic conditions or formulation of recommendations was performed.

Please call if you have any questions.

Sincerely,



Dustin Becker
Blaine Tech Services, Inc.
Senior Project Manager

attachments: SOP
Well Gauging Sheet
Individual Well Monitoring Data Sheets
Chain of Custody
Wellhead Inspection Form
Bill of Lading
Calibration Log

cc: CRA
Attn: Nathan Lee
5900 Hollis St. Suite A
Emeryville, CA 94608

Second Quarter Groundwater Monitoring at Chevron 94800, 1700 Castro St., Oakland, CA

SAN JOSE

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BLAINE TECH SERVICES, INC. METHODS AND PROCEDURES FOR THE ROUTINE MONITORING OF GROUNDWATER WELLS AT CHEVRON SITES

Blaine Tech Services, Inc. performs environmental sampling and documentation as an independent third party. We specialize in groundwater monitoring assignments and intentionally limit the scope of our services to those centered on the generation of objective information.

To avoid conflicts of interest, Blaine Tech Services, Inc. personnel do not evaluate or interpret the information we collect. As a state licensed contractor (C-57 well drilling –water – 746684) performing strictly technical services, we do not make any professional recommendations and perform no consulting of any kind.

SAMPLING PROCEDURES OVERVIEW

SAFETY

All groundwater monitoring assignments performed for Chevron comply with Chevron's safety guidelines, 29 CFR 1910.120 and SB-198 Injury and Illness Prevention Program (IIPP). All Field Technicians receive the full 40-hour 29CFR 1910.120 OSHA SARA HAZWOPER course, medical clearance and on-the-job training prior to commencing any work on any Chevron site.

INSPECTION AND GAUGING

Wells are inspected prior to evacuation and sampling. The condition of the wellhead is checked and noted according to a wellhead inspection checklist.

Standard measurements include the depth to water (DTW) and the total well depth (TD) obtained with industry standard electronic water level indicators that are graduated in increments of hundredths of a foot.

The water in each well is inspected for the presence of immiscibles. When free product is suspected, its presence is confirmed using an electronic interface probe (e.g. GeoTech). No samples are collected from a well containing over two-hundredths of a foot (0.02') of product.

EVACUATION

Depth to water measurements are collected by our personnel prior to purging and minimum purge volumes are calculated anew for each well based on the height of the water column and the diameter of the well. Expected purge volumes are never less than three case volumes and are set at no less than four case volumes in some jurisdictions.

Well purging devices are selected on the basis of the well diameter and the total volume to be

evacuated. In most cases the well will be purged using an electric submersible pump (i.e. Grundfos) suspended near (but not touching) the bottom of the well.

PARAMETER STABILIZATION

Well purging completion standards include minimum purge volumes, but additionally require stabilization of specific groundwater parameters prior to sample collection. Typical groundwater parameters used to measure stability are electrical conductivity, pH, and temperature. Instrument readings are obtained at regular intervals during the evacuation process (no less than once per case volume).

Stabilization standards for routine quarterly monitoring of fuel sites include the following: Temperature is considered to have stabilized when successive readings do not fluctuate more than +/- 1 degree Celsius. Electrical conductivity is considered stable when successive readings are within 10%. pH is considered to be stable when successive readings remain constant or vary no more than 0.2 of a pH unit.

DEWATERED WELLS

Normal evacuation removes no less than three case volumes of water from the well. However, less water may be removed in cases where the well dewateres and does not immediately recharge.

MEASURING RECHARGE

Upon completion of well purging, a depth to water measurement is collected and notated to ensure that the well has recharged to within 80% of its static, pre-purge level prior to sampling.

Wells that do not immediately show 80% recharge or dewatered wells will be allowed approximately 2 hours to recharge prior to sampling or will be sampled at site departure. All wells requiring off-site traffic control in the public right-of-way, the 80% recharge rule may be disregarded in the interests of Health and Safety. The sample may be collected as soon as there is sufficient water. The water level at time of sampling will be noted.

PURGEWATER CONTAINMENT

All non-hazardous purgewater evacuated from each groundwater monitoring well is captured and contained in on-board storage tanks on the Sampling Vehicle and/or special water hauling trailers. Effluent from the decontamination of reusable apparatus (sounders, electric pumps and hoses etc.), consisting of groundwater combined with deionized water and non-phosphate soap, is also captured and pumped into effluent tanks.

Non-hazardous purgewater is transported under standard Bill of Lading documentation to a Blaine Tech Services, Inc. facility before being transported to a Chevron approved disposal facility.

SAMPLE COLLECTION DEVICES

All samples are collected using disposable bailers.

SAMPLE CONTAINERS

Sample material is decanted directly from the sampling bailer into sample containers provided by the laboratory that will analyze the samples. The transfer of sample material from the bailer to the sample container conforms to specifications contained in the USEPA T.E.G.D. The type of sample container, material of construction, method of closure and filling requirements are specific to the intended analysis. Chemicals needed to preserve the sample material are commonly placed inside the sample containers by the laboratory or glassware vendor prior to delivery of the bottle to our personnel. The laboratory sets the number of replicate containers.

TRIP BLANKS

Trip Blanks, if requested, are taken to the site and kept inside the sample cooler for the duration of the event. They are turned over to the laboratory for analysis with the samples from that site.

DUPLICATES

Duplicates, if requested, may be collected at a site. The Duplicate sample is collected, typically from the well containing the most measurable contaminants. The Duplicate sample is labeled the same as the original.

SAMPLE STORAGE

All sample containers are promptly placed in food grade ice chests for storage in the field and transport (direct or via our facility) to the designated analytical laboratory. These ice chests contain quantities of restaurant grade ice as a refrigerant material. The samples are maintained in either an ice chest or a refrigerator until relinquished into the custody of the laboratory or laboratory courier.

DOCUMENTATION CONVENTIONS

A label must be affixed to all sample containers. In most cases these labels are generated by our office personnel and are partially preprinted. Labels can also be hand written by our field personnel. The site is identified with the store number and site address, as is the particular groundwater well from which the sample is drawn (e.g. MW-1, MW-2, S-1 etc.). The time and date of sample collection along with the initials of the person who collects the sample are handwritten onto the label.

Chain of Custody records are created using client specific preprinted forms following USEPA specifications.

Bill of Lading records are contemporaneous records created in the field at the site where the non-hazardous purgewater is generated. Field Technicians use preprinted Bill of Lading forms.

DECONTAMINATION

All equipment is brought to the site in clean and serviceable condition and is cleaned after use in each well and before subsequent use in any other well. Equipment is decontaminated before leaving the site.

The primary decontamination device is a commercial steam cleaner. The steam cleaner is de-tuned to function as a hot pressure washer that is then operated with high quality deionized water that is produced at our facility and stored onboard our sampling vehicle. Cleaning is facilitated by the use of proprietary fixtures and devices included in the patented workstation (U.S. Patent 5,535,775) that is incorporated in each sampling vehicle. The steam cleaner is used to decon reels, pumps and bailers.

Any sensitive equipment or parts (i.e. Dissolved Oxygen sensor membrane, water level indicator, etc.) that cannot be washed using the high pressure water, will be sprayed with a non-phosphate soap and deionized water solution and rinsed with deionized water.

DISSOLVED OXYGEN READINGS

Dissolved Oxygen readings are taken pre- and/or post-purge using YSI meters (e.g. YSI Model 550) or HACH field test kits.

The YSI meters are able to collect accurate in-situ readings. The probe allows downhole measurements to be taken from wells with diameters as small as two inches. The probe and reel is decontaminated between wells as described above. The meter is calibrated between wells as per the instructions in the operating manual. The probe is lowered into the water column and the reading is allowed to stabilize prior to collection.

OXYIDATON REDUCTION POTENTIAL READINGS

All readings are obtained with either Corning or Myron-L meters (e.g. Corning ORP-65 or a Myron-L Ultrameter GP). The meter is cleaned between wells as described above. The meter is calibrated at the start of each day according to the instruction manual.

FERROUS IRON MEASUREMENTS

All field measurements are collected at time of sampling with a HACH test kit.

WELL GAUGING DATA

Project # 110504-PH2 Date 5/4/11 Client Chevron

Site 1700 Castro St. , Oakland

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	1404	2					25.26	30.75	↓	
MW-2	1436	2				23.50	30.30			
MW-3	1410	2				24.90	30.30			
MW-4	1433	2				24.50	28.87			
MW-7	1420	2				27.35	30.17	↓		

CHEVRON WELL MONITORING DATA SHEET

Project #: <u>110504-PH2</u>	Station #: <u>9-4800</u>
Sampler: <u>PH</u>	Date: <u>5/4/11</u>
Weather: <u>Sunny</u>	Ambient Air Temperature: <u>85°F</u>
Well I.D.: <u>MW-1</u>	Well Diameter: <u>2</u> 3 4 6 8 _____
Total Well Depth: <u>30.78</u>	Depth to Water: <u>25.26</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>26.36</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: _____

<u>0.8</u>	(Gals.) X	<u>3</u>	=	<u>2.6</u>	Gals.
I Case Volume		Specified Volumes		Calculated Volume	

Well Diameter	Multiplier	Well Diameter	Multiplier
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
1446	73.7	6.4	1065	452	1.0	
1447	71.0	6.4	1078	510	2.0	
1448	70.3	6.5	1047	647	2.7	

Did well dewater? Yes No Gallons actually evacuated: 2.7

Sampling Date: 5/4/11 Sampling Time: 1455 Depth to Water: 25.80

Sample I.D.: MW-1 Laboratory: Lancaster Other _____

Analyzed for: TPH-G BTEX MTBE OXYS Other: See COC

Duplicate I.D.: Analyzed for: TPH-G BTEX MTBE OXYS 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

CHEVRON WELL MONITORING DATA SHEET

Project #: 110504- <u>AZ</u>	Station #: 1700 <u>Castro St</u> 9-4000
Sampler: <u>80</u>	Date: <u>9-4-11</u>
Weather: <u>Sunny</u>	Ambient Air Temperature: <u>85°F</u>
Well I.D.: <u>MW-2</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth: <u>30.30</u>	Depth to Water: <u>23.50</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
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>24.86</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: _____

<u>1.0</u>	(Gals.) X	<u>3</u>	=	<u>3.0</u>	Gals.
1 Case Volume		Specified Volumes		Calculated Volume	

Well Diameter	Multiplier	Well Diameter	Multiplier
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 <u>(µS)</u>)	Turbidity (NTUs)	Gals. Removed	Observations
1437	70.6	7.07	755	>1000	1.0	
1439	71.2	7.03	749	>1000	2.0	
1441	71.3	7.04	748	>1000	3.0	

Did well dewater? Yes (No) Gallons actually evacuated: 3.0

Sampling Date: 9-4-11 Sampling Time: 1445 Depth to Water: 24.53

Sample I.D.: MW-2 Laboratory: (Lancaster) Other _____

Analyzed for: TPH-G BTEX MTBE OXYS Other: see COC

Duplicate I.D.: _____ Analyzed for: TPH-G BTEX MTBE OXYS 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
--------------------	------------	----	-------------	----

CHEVRON WELL MONITORING DATA SHEET

Project #: 110504-PH2	Station #: 9-4900
Sampler: JS	Date: 5-4-11
Weather: Sunny	Ambient Air Temperature: 85.0 F
Well I.D.: MW-3	Well Diameter: (2) 3 4 6 8
Total Well Depth: 30.30	Depth to Water: 24.90
Depth to Free Product:	Thickness of Free Product (feet): —
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 25.98	

Purge Method: Disposable Bailer Waterra Peristaltic Extraction Pump Other _____

Sampling Method: Bailer Disposable Bailer Extraction Port Dedicated Tubing Other: _____

0.9 (Gals.) X 3 = 2.7 Gals.

I Case Volume Specified Volumes Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
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 μS)	Turbidity (NTUs)	Gals. Removed	Observations
1500	70.4	7.16	991	725	0.9	
1501	70.4	7.11	987	842	1.8	
1502	70.6	7.09	983	876	2.7	

Did well dewater? Yes No Gallons actually evacuated: 2.7

Sampling Date: 5-4-11 Sampling Time: 1510 Depth to Water: 25.74

Sample I.D.: MW-3 Laboratory: Lancaster Other _____

Analyzed for: TPH-G BTEX MTBE OXYS Other: COE

Duplicate I.D.: Analyzed for: TPH-G BTEX MTBE OXYS Other: _____

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

CHEVRON WELL MONITORING DATA SHEET

Project #: <u>110504-PH2</u>	Station #: <u>2-4800</u>
Sampler: <u>PH</u>	Date: <u>5/4/11</u>
Weather: <u>sunny</u>	Ambient Air Temperature: <u>85°F</u>
Well I.D.: <u>nw-4</u>	Well Diameter: <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8 <input type="checkbox"/>
Total Well Depth: <u>28.87</u>	Depth to Water: <u>24.50</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
Referenced to: <input checked="" type="checkbox"/> <u>PVE</u> Grade	D.O. Meter (if req'd): <input type="checkbox"/> YSI <input type="checkbox"/> HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>25.37</u>	

Purge Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Positive Air Displacement <input type="checkbox"/> Electric Submersible	<input type="checkbox"/> Waterra <input type="checkbox"/> Peristaltic <input type="checkbox"/> Extraction Pump <input type="checkbox"/> Other _____	Sampling Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port <input type="checkbox"/> Dedicated Tubing Other: _____
--	--	---

$\frac{0.7 \text{ (Gals.)} \times 3}{\text{Specified Volumes}} = 2.1 \text{ Gals.}$		<table style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Well Diameter</th> <th style="text-align: left;">Multiplier</th> <th style="text-align: left;">Well Diameter</th> <th style="text-align: left;">Multiplier</th> </tr> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius² * 0.163</td> </tr> </table>		Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius ² * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier																
1"	0.04	4"	0.65																
2"	0.16	6"	1.47																
3"	0.37	Other	radius ² * 0.163																
1 Case Volume	=	Calculated Volume																	

Time	Temp (°F)	pH	Cond. (mS or μS)	Turbidity (NTUs)	Gals. Removed	Observations
1525	69.0	7.34	217	>1000	0.7	
1527	68.1	7.24	222	>1000	1.5	
1529	68.0	7.19	712	>1000	2.2	

Did well dewater? Yes No Gallons actually evacuated: 2.2

Sampling Date: 5/4/11 Sampling Time: 1535 Depth to Water: 25.29

Sample I.D.: nw-4 Laboratory: Lancaster Other: _____

Analyzed for: TPH-G BTEX MTBE OXYS Other: See GC

Duplicate I.D.: _____ Analyzed for: TPH-G BTEX MTBE OXYS Other: _____

D.O. (if req'd):	Pre-purge:	<input type="text"/>	mg/L	Post-purge:	<input type="text"/>	mg/L
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O.R.P. (if req'd):	Pre-purge:	<input type="text"/>	mV	Post-purge:	<input type="text"/>	mV
--------------------	------------	----------------------	----	-------------	----------------------	----

CHEVRON WELL MONITORING DATA SHEET

Project #: <u>110504-PN2</u>	Station #: <u>9-4800</u>
Sampler: <u>PH</u>	Date: <u>5/4/11</u>
Weather: <u>Sunny</u>	Ambient Air Temperature: <u>85°F</u>
Well I.D.: <u>MW-7</u>	Well Diameter: <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8 <input type="checkbox"/> _____
Total Well Depth: <u>30.0</u>	Depth to Water: <u>27.35</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
Referenced to: <input checked="" type="radio"/> PVC <input type="radio"/> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>27.91</u>	

Purge Method:	Sampling Method: <u>Bailer</u>
<input type="radio"/> Bailer	<input checked="" type="radio"/> Disposable Bailer
<input checked="" type="radio"/> Disposable Bailer	<input type="radio"/> Extraction Port
<input type="radio"/> Positive Air Displacement	<input type="radio"/> Dedicated Tubing
<input type="radio"/> Electric Submersible	Other: _____
<input type="radio"/> Waterra	
<input type="radio"/> Peristaltic	
<input type="radio"/> Extraction Pump	
Other: _____	

<u>0.4</u> (Gals.) X	<u>3</u>	=	<u>1.4</u> Gals.
1 Case Volume	Specified Volumes		Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
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 μS)	Turbidity (NTUs)	Gals. Removed	Observations
1510	<u>71.8</u>	<u>7.0</u>	<u>930</u>	<u>149</u>	<u>0.5</u>	
1512	<u>68.4</u>	<u>6.88</u>	<u>864</u>	<u>164</u>	<u>1.0</u>	
1514	<u>69.9</u>	<u>6.81</u>	<u>892</u>	<u>170</u>	<u>1.5</u>	

Did well dewater? Yes No Gallons actually evacuated: 1.5

Sampling Date: 5/4/11 Sampling Time: 1520 Depth to Water: 27.68

Sample I.D.: MW-7 Laboratory: Lancaster Other: _____

Analyzed for: TPH-G BTEX MTBE OXYS Other: See COU

Duplicate I.D.: Analyzed for: TPH-G BTEX MTBE OXYS Other: _____

D.O. (if req'd):	Pre-purge:	<input type="text"/> mg/L	Post-purge:	<input type="text"/> mg/L
------------------	------------	---------------------------	-------------	---------------------------

O.R.P. (if req'd):	Pre-purge:	<input type="text"/> mV	Post-purge:	<input type="text"/> mV
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050411-09
CHAIN OF CUSTODY FORM
Chevron Environmental Management Company • 6111 Bollinger Canyon Rd. • San Ramon, CA 94583 **COC 1 of 1**

Chevron Site Number: 94800
 Chevron Site Global ID: T0000102076
 Chevron Site Address: 1700 Casrto St., Oakland, CA
 Chevron PM: DAVE PATTEN
 Chevron PM Phone No.: (925)790-6491
 Retail and Terminal Business Unit (RTBU) Job
 Construction/Retail Job

Chevron Consultant: CRA
 Address: 5900 Hollis St. Suite A Emeryville, CA
 Consultant Contact: Nathan Lee
 Consultant Phone No. 510-420-3333
 Consultant Project No. 110504-PK2
 Sampling Company: Blaine Tech Services
 Sampled By (Print): P. Hume (J. Oxt 12)
 Sampler Signature: _____

Charge Code: NWRTB-0094800-0-OML
NWRTB OOSITE NUMBER-0-WBS
(WBS ELEMENTS:
 SITE ASSESSMENT: A1L REMEDIATION IMPLEMENTATION: R5L
 SITE MONITORING: OML OPERATION MAINTENANCE & MONITORING: M1L
THIS IS A LEGAL DOCUMENT. ALL FIELDS MUST BE FILLED OUT CORRECTLY AND COMPLETELY.

Lancaster Laboratories
 Lancaster, PA
 Lab Contact: Jill Parker
 2425 New Holland Pike,
 Lancaster, PA 17601
 Phone No: (717)656-2300

Other Lab _____
 Temp. Blank Check Time _____ Temp. _____
140 20c

ANALYSES REQUIRED										Preservation Codes
H	T									
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	H = HCL T = Thiouulfata N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Special Instructions Must meet lowest detection limits possible for 8260 Compounds, Run TPH-D with Sifca Gel Clean Up
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(S) 8260 (S) 8260
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Notes/Comments
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	50x45 8260 50x45 8260 No DRO
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

SAMPLE ID				Sample Time	# of Containers	Container Type
Field Point Name	Matrix	Top Depth	Date (yy/mm/dd)			
MW-1	W		11/05/04	1455	8	Mixed
MW-2	↓			1445	↓	↓
MW-3	↓			1510	↓	↓
MW-4	↓			1535	↓	↓
MW-7	↓			1520	↓	↓
QA	↓			1430	2	Vials

Relinquished By: [Signature] Company: BTS Date/Time: 5-4-11 1540

Relinquished By: _____ Company: _____ Date/Time: _____

Relinquished By: _____ Company: _____ Date/Time: _____

Relinquished To: [Signature] Company: LLI Date/Time: 5/4/11 1540

Relinquished To: _____ 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 CHECKLIST

Client Chevron Date 5/4/11

Site Address 1700 Castro St., Oakland

Job Number 110504-PH2 Technician PH

Well ID	Well Inspected - No Corrective Action Required	WELL IS SECURABLE BY DESIGN (12" or less)	WELL IS CLEARLY MARKED WITH THE WORDS "MONITORING WELL" (12" or less)	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
nw-1	X	X	X							
nw-2	X	X	X							
nw-3	X	X	X	X						
nw-4	X	X	X	X						
nw-7	X	X	X	X						

NOTES: _____

CHEVRON-NORTHERN CALIFORNIA 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 CALIFORNIA. 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 IWM TO THEIR FACILITY IN SAN JOSE, CALIFORNIA.

The contractor performing this work is BLAINE TECH SERVICES, INC. (BTS), 1680 Rogers Ave. San Jose CA (408)573-0555). 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:

9-4800 Dave Patten
 CHEVRON # Chevron Engineer

1700 Castro St. Oakland CA
 street number street name city state

WELL I.D.	GALS.	WELL I.D.	GALS.
<u>MW-1</u>	<u>/ 2.7</u>	<u>/</u>	<u>/</u>
<u>MW-2</u>	<u>/ 3.0</u>	<u>/</u>	<u>/</u>
<u>MW-3</u>	<u>/ 2.7</u>	<u>/</u>	<u>/</u>
<u>MW-4</u>	<u>/ 2.2</u>	<u>/</u>	<u>/</u>
<u>MW-7</u>	<u>/ 1.8</u>	<u>/</u>	<u>/</u>
<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>
<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>
<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>
<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>
added equip.	<u>/</u>	any other	<u>/</u>
rinse water <u>/ 5</u>		adjustments <u>/</u>	
TOTAL GALS.	<u>17</u>	loaded onto	<u>29</u>
RECOVERED		BTS vehicle #	
BTS event #	time	date	
<u>110804-PH2</u>	<u>1540</u>	<u>5 / 4 / 11</u>	
signature	<u>[Signature]</u>		

REC'D AT	time	date	
<u>Blaine Tech</u>	<u>1700</u>	<u>5 / 4 / 11</u>	
unloaded by	<u>[Signature]</u>		
signature	<u>[Signature]</u>		

ATTACHMENT B

LABORATORY ANALYTICAL REPORT

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

May 17, 2011

Project: 94800

Submittal Date: 05/05/2011
Group Number: 1245365
PO Number: 0015074399
Release Number: PATTEN
State of Sample Origin: CAClient Sample DescriptionMW-1-W-110504 NA Water
MW-2-W-110504 NA Water
MW-3-W-110504 NA Water
MW-4-W-110504 NA Water
MW-7-W-110504 NA Water
QA-T-110504 NA WaterLancaster Labs (LLI) #6277768
6277769
6277770
6277771
6277772
6277773

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: Report Contact
ELECTRONIC COPY TO	Blaine Tech Services, Inc.	Attn: Dustin Becker
ELECTRONIC COPY TO	Chevron	Attn: Anna Avina
ELECTRONIC COPY TO	CRA	Attn: Nathan Lee
ELECTRONIC COPY TO	CRA	Attn: Ian Hull

Questions? Contact your Client Services Representative
Jill M Parker at (717) 656-2300 Ext. 1241

Respectfully Submitted,



Robin C. Runkle
Senior Specialist



Analysis Report

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

Sample Description: MW-1-W-110504 NA Water
Facility# 94800 BTST
 1700 Castro St-Oakland T0600102076 MW-1

LLI Sample # WW 6277768
LLI Group # 1245365
Account # 10991

Project Name: 94800

Collected: 05/04/2011 14:55 by PH

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 05/05/2011 09:35

Reported: 05/17/2011 22:16

CSO-1

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						
10943	Benzene	71-43-2	N.D.	0.5	1	1
10943	Ethanol	64-17-5	N.D.	50	250	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	180	0.5	1	1
10943	Toluene	108-88-3	N.D.	0.5	1	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC Volatiles SW-846 8015B						
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1
GC Extractable TPH SW-846 8015B						
w/Si Gel						
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	75 J	50	100	1

General Sample Comments

State of California Lab Certification No. 2501

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
10943	UST VOCs by 8260B - Water	SW-846 8260B	1	D111311AA	05/11/2011 15:07	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D111311AA	05/11/2011 15:07	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11129A07A	05/10/2011 00:11	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11129A07A	05/10/2011 00:11	Laura M Krieger	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	111260004A	05/12/2011 10:10	Glorines Suarez-Rivera	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	111260004A	05/06/2011 10:40	Roza S Goslawska	1

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



Analysis Report

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

Sample Description: MW-2-W-110504 NA Water
Facility# 94800 BTST
 1700 Castro St-Oakland T0600102076 MW-2

LLI Sample # WW 6277769
LLI Group # 1245365
Account # 10991

Project Name: 94800

Collected: 05/04/2011 14:45 by PH

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 05/05/2011 09:35

Reported: 05/17/2011 22:16

CSO-2

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						
10943	Benzene	71-43-2	N.D.	0.5	1	1
10943	Ethanol	64-17-5	N.D.	50	250	1
10943	Ethylbenzene	100-41-4	51	0.5	1	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	16	0.5	1	1
10943	Toluene	108-88-3	N.D.	0.5	1	1
10943	Xylene (Total)	1330-20-7	10	0.5	1	1
GC Volatiles SW-846 8015B						
01728	TPH-GRO N. CA water C6-C12	n.a.	830	50	100	1
GC Extractable TPH SW-846 8015B						
w/Si Gel						
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	1,300	50	100	1

General Sample Comments

State of California Lab Certification No. 2501

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
10943	UST VOCs by 8260B - Water	SW-846 8260B	1	D111311AA	05/11/2011 15:30	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D111311AA	05/11/2011 15:30	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11129A07A	05/10/2011 00:36	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11129A07A	05/10/2011 00:36	Laura M Krieger	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	111260004A	05/12/2011 10:30	Glorines Suarez-Rivera	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	111260004A	05/06/2011 10:40	Roza S Goslawska	1

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



Analysis Report

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

Sample Description: MW-3-W-110504 NA Water
Facility# 94800 BTST
1700 Castro St-Oakland T0600102076 MW-3

LLI Sample # WW 6277770
LLI Group # 1245365
Account # 10991

Project Name: 94800

Collected: 05/04/2011 15:10 by PH

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 05/05/2011 09:35

Reported: 05/17/2011 22:16

CSO-3

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						
10943	Benzene	71-43-2	30	0.5	1	1
10943	Ethanol	64-17-5	N.D.	50	250	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	200	0.5	1	1
10943	Toluene	108-88-3	N.D.	0.5	1	1
10943	Xylene (Total)	1330-20-7	8	0.5	1	1
GC Volatiles SW-846 8015B						
01728	TPH-GRO N. CA water C6-C12	n.a.	370	50	100	1
GC Extractable TPH SW-846 8015B						
w/Si Gel						
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	250	50	100	1

General Sample Comments

State of California Lab Certification No. 2501

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
10943	UST VOCs by 8260B - Water	SW-846 8260B	1	D111311AA	05/11/2011 15:52	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D111311AA	05/11/2011 15:52	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11129A07A	05/10/2011 01:01	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11129A07A	05/10/2011 01:01	Laura M Krieger	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	111260004A	05/12/2011 10:51	Glorines Suarez-Rivera	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	111260004A	05/06/2011 10:40	Roza S Goslawska	1

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



Analysis Report

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

Sample Description: MW-4-W-110504 NA Water
Facility# 94800 BTST
1700 Castro St-Oakland T0600102076 MW-4

LLI Sample # WW 6277771
LLI Group # 1245365
Account # 10991

Project Name: 94800

Collected: 05/04/2011 15:35 by PH

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 05/05/2011 09:35

Reported: 05/17/2011 22:16

CSO-4

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						
10943	t-Amyl methyl ether	994-05-8	N.D.	0.5	1	1
10943	Benzene	71-43-2	N.D.	0.5	1	1
10943	t-Butyl alcohol	75-65-0	49	2	5	1
10943	Ethanol	64-17-5	N.D.	50	250	1
10943	Ethyl t-butyl ether	637-92-3	N.D.	0.5	1	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10943	di-Isopropyl ether	108-20-3	N.D.	0.5	1	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	25	0.5	1	1
10943	Toluene	108-88-3	N.D.	0.5	1	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC Volatiles SW-846 8015B						
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1
GC Extractable TPH SW-846 8015B						
w/Si Gel						
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	60	J 50	110	1

General Sample Comments

State of California Lab Certification No. 2501

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
10943	UST VOCs by 8260B - Water	SW-846 8260B	1	D111311AA	05/11/2011 13:38	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D111311AA	05/11/2011 13:38	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11129A07A	05/10/2011 01:27	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11129A07A	05/10/2011 01:27	Laura M Krieger	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	111260004A	05/12/2011 07:28	Glorines Suarez-Rivera	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	111260004A	05/06/2011 10:40	Roza S Goslawska	1

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



Analysis Report

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

Sample Description: MW-7-W-110504 NA Water
Facility# 94800 BTST
 1700 Castro St-Oakland T0600102076 MW-7

LLI Sample # WW 6277772
LLI Group # 1245365
Account # 10991

Project Name: 94800

Collected: 05/04/2011 15:20 by PH

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 05/05/2011 09:35

Reported: 05/17/2011 22:16

CSO-7

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						
10943	t-Amyl methyl ether	994-05-8	100	ug/l 0.5	ug/l 1	1
10943	Benzene	71-43-2	N.D.	0.5	1	1
10943	t-Butyl alcohol	75-65-0	N.D.	2	5	1
10943	Ethanol	64-17-5	N.D.	50	250	1
10943	Ethyl t-butyl ether	637-92-3	1	0.5	1	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10943	di-Isopropyl ether	108-20-3	N.D.	0.5	1	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	4,200	5	10	10
10943	Toluene	108-88-3	N.D.	0.5	1	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC Volatiles SW-846 8015B						
01728	TPH-GRO N. CA water C6-C12	n.a.	150	ug/l 50	ug/l 100	1
GC Extractable TPH SW-846 8015B						
w/Si Gel						
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	85 J	ug/l 50	ug/l 100	1

General Sample Comments

State of California Lab Certification No. 2501

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
10943	UST VOCs by 8260B - Water	SW-846 8260B	1	D111311AA	05/11/2011 14:45	Daniel H Heller	1
10943	UST VOCs by 8260B - Water	SW-846 8260B	1	F111324AA	05/13/2011 01:55	Kelly E Keller	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D111311AA	05/11/2011 14:45	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	F111324AA	05/13/2011 01:55	Kelly E Keller	10
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11129A07A	05/10/2011 01:52	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11129A07A	05/10/2011 01:52	Laura M Krieger	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	111260004A	05/12/2011 07:49	Glorines Suarez-Rivera	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	111260004A	05/06/2011 10:40	Roza S Goslowska	1

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



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

Sample Description: QA-T-110504 NA Water
Facility# 94800 BTST
 1700 Castro St-Oakland T0600102076 QA

LLI Sample # WW 6277773
LLI Group # 1245365
Account # 10991

Project Name: 94800

Collected: 05/04/2011 14:30

Chevron

Submitted: 05/05/2011 09:35

6001 Bollinger Canyon Rd L4310

Reported: 05/17/2011 22:16

San Ramon CA 94583

CSOTB

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						
10943	Benzene	71-43-2	N.D.	0.5	1	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
10943	Toluene	108-88-3	N.D.	0.5	1	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC Volatiles SW-846 8015B						
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1

General Sample Comments

State of California Lab Certification No. 2501

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
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	Z111302AA	05/10/2011 12:29	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z111302AA	05/10/2011 12:29	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11129A07A	05/09/2011 22:31	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11129A07A	05/09/2011 22:31	Laura M Krieger	1

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

Quality Control Summary

Client Name: Chevron

Group Number: 1245365

Reported: 05/17/11 at 10:16 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

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: D111311AA	Sample number(s): 6277768-6277772								
t-Amyl methyl ether	N.D.	0.5	1	ug/l	87		77-120		
Benzene	N.D.	0.5	1	ug/l	97		79-120		
t-Butyl alcohol	N.D.	2.	5	ug/l	91		62-129		
Ethanol	N.D.	50.	250	ug/l	114		54-149		
Ethyl t-butyl ether	N.D.	0.5	1	ug/l	90		76-120		
Ethylbenzene	N.D.	0.5	1	ug/l	95		79-120		
di-Isopropyl ether	N.D.	0.5	1	ug/l	95		71-124		
Methyl Tertiary Butyl Ether	N.D.	0.5	1	ug/l	92		76-120		
Toluene	N.D.	0.5	1	ug/l	98		79-120		
Xylene (Total)	N.D.	0.5	1	ug/l	96		80-120		
Batch number: F111324AA	Sample number(s): 6277772								
Methyl Tertiary Butyl Ether	N.D.	0.5	1	ug/l	83		76-120		
Batch number: Z111302AA	Sample number(s): 6277773								
Benzene	N.D.	0.5	1	ug/l	109		79-120		
Ethylbenzene	N.D.	0.5	1	ug/l	109		79-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	1	ug/l	112		76-120		
Toluene	N.D.	0.5	1	ug/l	109		79-120		
Xylene (Total)	N.D.	0.5	1	ug/l	109		80-120		
Batch number: 11129A07A	Sample number(s): 6277768-6277773								
TPH-GRO N. CA water C6-C12	N.D.	50.	100	ug/l	91	100	75-135	10	30
Batch number: 111260004A	Sample number(s): 6277768-6277772								
TPH-DRO CA C10-C28 w/ Si Gel	N.D.	32.	100	ug/l	83	91	52-126	10	20

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

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: D111311AA	Sample number(s): 6277768-6277772 UNSPK: 6277771								
t-Amyl methyl ether	81	84	75-122	4	30				
Benzene	93	95	80-126	2	30				
t-Butyl alcohol	82	83	67-119	0	30				
Ethanol	117	113	53-146	3	30				
Ethyl t-butyl ether	84	85	74-122	1	30				
Ethylbenzene	92	93	71-134	1	30				
di-Isopropyl ether	87	90	70-129	3	30				

*- 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: Chevron
 Reported: 05/17/11 at 10:16 PM

Group Number: 1245365

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Methyl Tertiary Butyl Ether	81	85	72-126	2	30			
Toluene	94	96	80-125	2	30			
Xylene (Total)	92	94	79-125	2	30			
Batch number: F111324AA Sample number(s): 6277772 UNSPK: P281243								
Methyl Tertiary Butyl Ether	85	85	72-126	1	30			
Batch number: Z111302AA Sample number(s): 6277773 UNSPK: P277998								
Benzene	119	120	80-126	2	30			
Ethylbenzene	119	122	71-134	2	30			
Methyl Tertiary Butyl Ether	119	123	72-126	4	30			
Toluene	120	122	80-125	2	30			
Xylene (Total)	119	121	79-125	1	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: UST VOCs by 8260B - Water
 Batch number: D111311AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6277768	93	98	100	94
6277769	90	95	102	105
6277770	90	94	101	99
6277771	92	95	102	95
6277772	86	90	102	96
Blank	93	97	99	95
LCS	90	98	101	102
MS	90	98	100	104
MSD	90	96	100	104
Limits:	80-116	77-113	80-113	78-113

 Analysis Name: UST VOCs by 8260B - Water
 Batch number: F111324AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
Blank	97	100	100	90
LCS	94	99	100	97
MS	96	101	101	94
MSD	94	99	100	95
Limits:	80-116	77-113	80-113	78-113

 Analysis Name: UST VOCs by 8260B - Water
 Batch number: Z111302AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
Blank	97	100	100	90
LCS	94	99	100	97
MS	96	101	101	94
MSD	94	99	100	95
Limits:	80-116	77-113	80-113	78-113

*- 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: Chevron
Reported: 05/17/11 at 10:16 PM

Group Number: 1245365

Surrogate Quality Control

6277773	98	95	98	98
Blank	98	96	99	98
LCS	98	99	99	99
MS	99	97	99	100
MSD	98	98	99	98

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

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 11129A07A
Trifluorotoluene-F

6277768	88
6277769	86
6277770	88
6277771	83
6277772	107
6277773	81
Blank	83
LCS	87
LCSD	91

Limits: 63-135

Analysis Name: TPH-DRO CA C10-C28 w/ Si Gel
Batch number: 111260004A
Orthoterphenyl

6277768	97
6277769	112
6277770	100
6277771	94
6277772	96
Blank	97
LCS	104
LCSD	108

Limits: 59-131

*- 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.

AMENDED 050411-09

CHAIN OF CUSTODY FORM

Chevron Environmental Management Company • 6111 Bollinger Canyon Rd • San Ramon, CA 94583 COC 1 of 1

Chevron Site Number: 94800
 Chevron Site Global ID: T0000102076
 Chevron Site Address: 1700 Casero St.
Oakland, CA
 Chevron PM: DAVE PATTEN
 Chevron PM Phone No.: (925)790-6491
 Retail and Terminal Business Unit (RTBU) Job
 Construction/Retail Job

Chevron Consultant: CRA
 Address: 5900 Hollis St. Suite A Emeryville,
 CA Consultant Contact: Nathan Lee
 Consultant Phone No. 510-420-3333
 Consultant Project No. 110504-Ph2
 Sampling Company: Blaine Tech Services
 Sampled By (Print): P Hume (J. Oct 10)
 Sampler Signature: _____

Charge Code: NWRTB-0094800-0-OML
NWRTB DOSITE NUMBER-0-WBS
(WBS ELEMENTS:
 SITE ASSESSMENT: A1L REMEDIATION IMPLEMENTATION: RSL
 SITE MONITORING: OML OPERATION MAINTENANCE & MONITORING: M1L
THIS IS A LEGAL DOCUMENT. ALL FIELDS MUST BE FILLED OUT CORRECTLY AND COMPLETELY.

Lancaster Laboratories
 Lancaster, PA
 Lab Contact: Jill Parker
 2425 New Holland Pike,
 Lancaster, PA 17601
 Phone No:
 (717)858-2300

Other Lab _____
 Temp. Blank Check Time _____ Temp. 22c

ANALYSES REQUIRED

<input checked="" type="checkbox"/> EPA 8260(GCMS) TPH-L-D	<input checked="" type="checkbox"/> EPA 8015B GRO RC	<input checked="" type="checkbox"/> EPA 8021B BTEX	<input checked="" type="checkbox"/> EPA 6010 Ca, Fe, K, Mg, Mn, Na	<input checked="" type="checkbox"/> EPA 6010/7000 TITILE 22 METALS	<input checked="" type="checkbox"/> EPA 150.1 PH	<input checked="" type="checkbox"/> SM2510B SPECIFIC CONDUCTIVITY	<input checked="" type="checkbox"/> EPA 418.1 TRPH	<input checked="" type="checkbox"/> EPA 8260 ETHANOL	<input checked="" type="checkbox"/> EPA 8015 TPH-D
<input checked="" type="checkbox"/> HVOCC	<input checked="" type="checkbox"/> HC SCREEN	<input checked="" type="checkbox"/> MTBE/STYRENE/OXYGENATES	<input checked="" type="checkbox"/> DRO	<input checked="" type="checkbox"/> STLC	<input checked="" type="checkbox"/> EPA 310.1 ALKALINITY	<input checked="" type="checkbox"/> EPA 413.1 OIL & GREASE			

Preservation Codes
 H=HCL T= Thiosulfate
 N=HNO₃ B= NaOH
 S= H₂SO₄ O= Other

Special Instructions
 Must meet lowest detection limits possible for 8260 Compounds. Run TPH-D with Silca Gel Clean Up

Notes/Comments
 (5) OXYGENATES (8260)
 acct # 10991
 ap # 1345365
 Sample # 0277768-73

SAMPLE ID				Sample Time	# of Containers	Container Type
Field Point Name	Matrix	Top Depth	Date (yyymmdd)			
Mhw-1	W		110504	1455	8	mixed
Mhw-2	↓		↓	1445	↓	↓
Mhw-3	↓		↓	1510	↓	↓
Mhw-4	↓		↓	1535	↓	↓
Mhw-7	↓		↓	1520	↓	↓
QA	T		↓	1430	2	boas

Relinquished By TS Company TS Date/Time: 5-4-11 1540

Relinquished By _____ Company _____ Date/Time _____

Relinquished By _____ Company _____ Date/Time _____

Relinquished To LSI Company LSI Date/Time: 5/4/11 1540

Relinquished To _____ 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 # _____

KX DATE/TIME 05/04/2007 09:47
 US/JG/2/11 10:30 15102324913
 BASC 15102324913
 PAGE 01/01 P.002

Chevron Site Number: 94800
 Chevron Site Global ID: T0600102076
 Chevron Site Address: 1700 Casrto St.
Oakland, CA
 Chevron PM: DAVE PATTEN
 Chevron PM Phone No.: (925)790-6491
 Retail and Terminal Business Unit (RTBU) Job
 Construction/Retail Job

Chevron Consultant: CRA
 Address: 5900 Hollis St. Suite A Emeryville,
 CA Consultant Contact: Nathan Lee
 Consultant Phone No. 510-420-3333
 Consultant Project No. 110504-Ph7
 Sampling Company: Blaine Tech Services
 Sampled By (Print): D Hume J. Oct 12
 Sampler Signature: _____

ANALYSES REQUIRED		Preservation Codes
<input checked="" type="checkbox"/> #	<input checked="" type="checkbox"/> #	H = HCL T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other
<input type="checkbox"/>	<input type="checkbox"/>	

Charge Code: NWRTB-0094800-0-OML
 NWRTB 00SITE NUMBER-0-WBS
(WBS ELEMENTS:
 SITE ASSESSMENT: A1L REMEDIATION IMPLEMENTATION: R5L
 SITE MONITORING: OML OPERATION MAINTENANCE & MONITORING: M1L
THIS IS A LEGAL DOCUMENT. ALL FIELDS MUST BE FILLED OUT CORRECTLY AND COMPLETELY.

Lancaster Laboratories
 Lancaster, PA
 Lab Contact: Jill Parker
 2425 New Holland Pike,
 Lancaster, PA 17601
 Phone No:
 (717)656-2300

Other Lab	Temp. Blank Check Time	Temp.
_____	<u>1400</u>	<u>22°</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

<input checked="" type="checkbox"/> #	<input checked="" type="checkbox"/> #	<input checked="" type="checkbox"/> #
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

EPA 8260B/GC/MS MIBEX OXYGENATES HVOC
 TPH/G BTEX DRO HC SCREEN
 EPA 8015B GRO DRO ORO HC SCREEN
 EPA 8021B BTEX MTBE
 EPA 6010 Ca, Fe, K, Mg, Mn, Na
 EPA 6010/7000 TITLE 22 METALS TLTC STLC
 EPA 150.1 PH
 SM2510B SPECIFIC CONDUCTIVITY
 EPA 418.1 TRPH
 EPA 8260 ETHANOL
 EPA 8015 TPH-D

Special Instructions
 Must meet lowest detection limits possible for 8260 Compounds, Run TPH-D with Silica Gel Clean Up
 acct # 10991
 Cap # 1245365
 Sample #
 6217768-73

SAMPLE ID				Sample Time	# of Containers	Container Type	ANALYSES REQUIRED												Notes/Comments
Field Point Name	Matrix	Top Depth	Date (yyymmdd)				EPA 8260B/GC/MS	EPA 8015B	EPA 8021B BTEX	EPA 6010 Ca, Fe, K, Mg, Mn, Na	EPA 6010/7000 TITLE 22 METALS	EPA 150.1 PH	SM2510B SPECIFIC CONDUCTIVITY	EPA 418.1 TRPH	EPA 8260	EPA 8015	EPA 413.1 OIL & GREASE		
MW-1	W		110504	1455	9	Mixed	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
MW-2	↓		↓	1445	↓	↓	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
MW-3	↓		↓	1510	↓	↓	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
MW-4	↓		↓	1535	↓	↓	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5 oxy 8260			
MW-7	↓		↓	1520	↓	↓	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5 oxy 8260			
QA	↓		↓	1430	2	Vials	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No DRO			

Relinquished By	Company	Date/Time	Relinquished To	Company	Date/Time	Turnaround Time:
	BTS	5-4-11 1540		LLI	5/4/11 1540	Standard <input checked="" type="checkbox"/> 24 Hours <input type="checkbox"/> 48 hours <input type="checkbox"/> 72 Hours <input type="checkbox"/> Other <input type="checkbox"/>
Relinquished By	Company	Date/Time	Relinquished To	Company	Date/Time	Sample Integrity: (Check by lab on arrival)
	LLI	5/4/11 1630		FE		Intact: <input checked="" type="checkbox"/> On Ice: <input checked="" type="checkbox"/> Temp: <u>08-18</u>
Relinquished By	Company	Date/Time	Relinquished To	Company	Date/Time	COC #
				LLI	5/5/11 0935	

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)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)
<	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 \geq 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
A TIC is a possible aldol-condensation product	B Value is $<$ CRDL, but \geq 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 sample not within control limits
E Concentration exceeds the calibration range of the instrument	S Method of standard additions (MSA) used for calculation
N Presumptive evidence of a compound (TICs only)	U Compound was not detected
P Concentration difference between primary and confirmation columns $>$ 25%	W Post digestion spike out of control limits
U Compound was not detected	* Duplicate analysis not within control limits
X,Y,Z Defined in case narrative	+ Correlation coefficient for MSA $<$ 0.995

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.

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