



**Alexis Coulter**  
Project Manager  
Marketing Business Unit

**Chevron Environmental  
Management Company**  
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**RECEIVED**

*By Alameda County Environmental Health at 12:31 pm, Mar 02, 2015*

Alameda County Health Care Services  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

Re: Chevron Service Station No. 94800  
1700 Castro Street  
Oakland, CA

I have reviewed the attached report entitled the *Second Semi-Annual 2014 Groundwater Monitoring and Sampling Report*.

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 blue ink that reads "Alexis Coulter".

Alexis Coulter  
Project Manager

Attachment: *Second Semi-Annual 2014 Groundwater Monitoring and Sampling Report*



**CONESTOGA-ROVERS  
& ASSOCIATES**

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

February 27, 2015

Reference No. 060061

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

Re: Second Semi-Annual 2014  
Groundwater Monitoring and Sampling Report  
Chevron Service Station 94800  
1700 Castro Street  
Oakland, California  
Fuel Leak Case No. RO0000342

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Dear Mr. Detterman:

Conestoga-Rovers & Associates (CRA) is submitting this *Second Semi-Annual 2014 Groundwater Monitoring and Sampling Report* for the site referenced above (Figure 1) on behalf of Chevron Environmental Management Company (EMC). Groundwater monitoring and sampling was performed by Blaine Tech Services (Blaine Tech) of San Jose, California and their *Fourth Quarter 2014 Monitoring* report is included as Attachment A. Groundwater monitoring and sampling data are presented in Table 1 and shown on Figure 2. Eurofins Lancaster Laboratory Environmental, LLC of Lancaster, Pennsylvania (Eurofins) *Analytical Results* report is included as Attachment B.

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Equal  
Employment Opportunity  
Employer

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**CONESTOGA-ROVERS  
& ASSOCIATES**

February 27, 2015

Reference No. 060061

- 2 -

Please contact Nathan Lee at (925) 849-1003 if you have any questions or require additional information.

Regards,

CONESTOGA-ROVERS & ASSOCIATES



Nathan S. Lee, PG 8486

NL/aa/15  
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: Mrs. Alexis Coulter, Chevron (*electronic only*)

## FIGURES

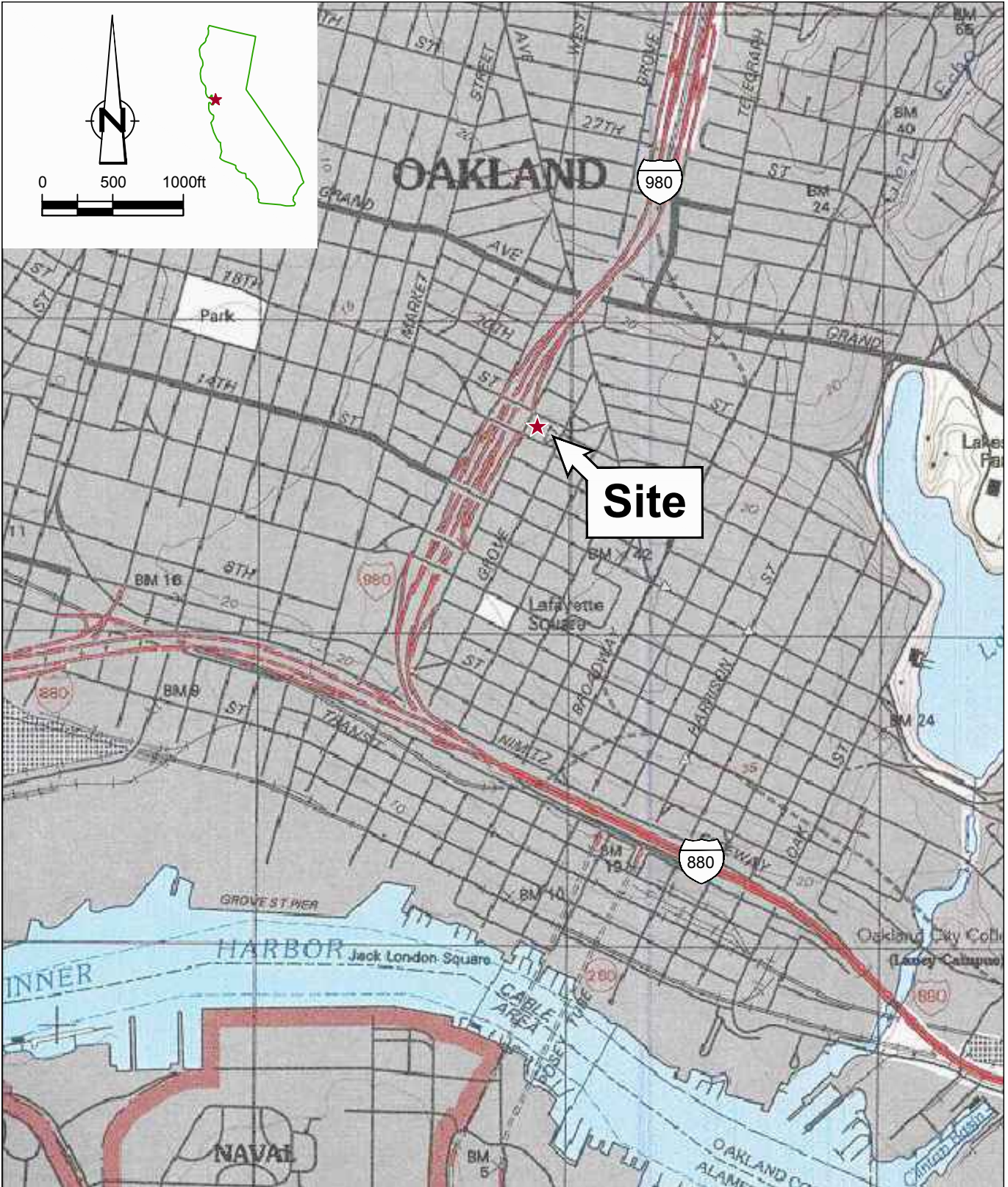
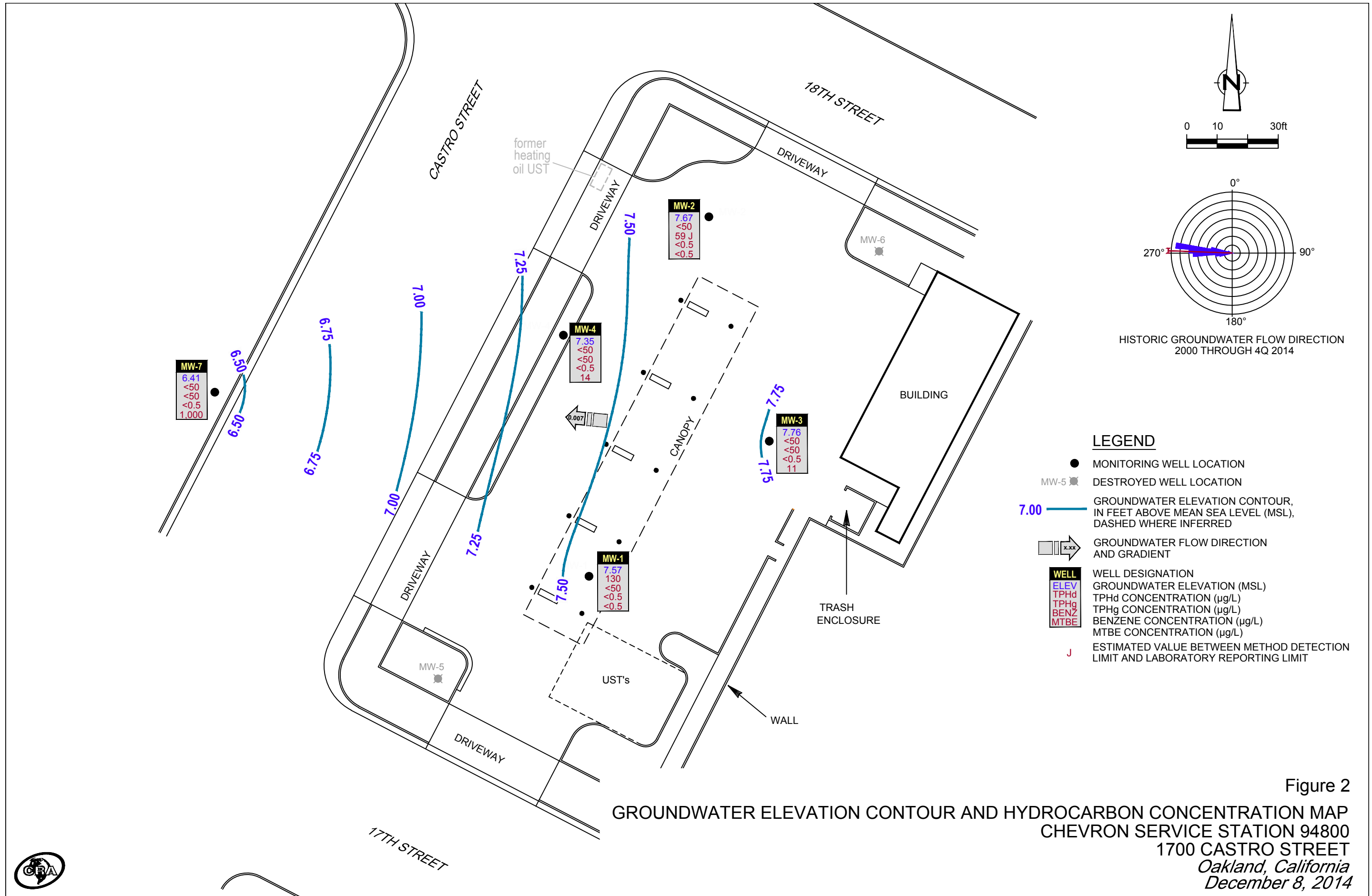


Figure 1  
 VICINITY MAP  
 CHEVRON SERVICE STATION 94800  
 1700 CASTRO STREET  
 Oakland, California







## TABLE

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA  
 CHEVRON SERVICE STATION 94800  
 1700 CASTRO ST.  
 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 <sup>1</sup>	-	890	100	110	29	150	<10	-	-	-	-	-	-	-	-
MW-1	09/16/1997	30.75	25.90	4.85	75 <sup>1</sup>	-	1,600	210	210	60	250	<10	-	-	-	-	-	-	-	-
MW-1	12/17/1997	30.75	25.87	4.88	65 <sup>1</sup>	-	940	120	100	41	160	<25	-	-	-	-	-	-	-	-
MW-1	03/18/1998	30.75	24.85	5.90	77 <sup>1</sup>	-	530	91	39	22	65	6.8	-	-	-	-	-	-	-	-
MW-1	06/28/1998	30.75	24.83	5.92	140 <sup>1</sup>	-	1,100	220	140	37	120	-	14	-	-	-	-	-	-	-
MW-1	09/07/1998	30.75	25.19	5.56	280 <sup>1</sup>	-	1,700	530	86	84	240	49	-	-	-	-	-	-	-	-
MW-1	12/09/1998	30.75	25.65	5.10	240 <sup>1</sup>	-	1,700	240	130	100	270	32	-	-	-	-	-	-	-	-
MW-1	03/11/1999	30.75	25.45	5.30	98 <sup>1</sup>	-	353	53.9	28.6	20.5	56.1	14.1	-	-	-	-	-	-	-	-
MW-1	06/17/1999	30.75	25.36	5.39	217 <sup>1</sup>	-	810	270	150	95	340	15	-	-	-	-	-	-	-	-
MW-1	09/29/1999	30.75	25.62	5.13	153 <sup>1</sup>	-	659	76	49.7	35.1	118	12.6	-	-	-	-	-	-	-	-
MW-1	12/14/1999	30.75	25.68	5.07	188 <sup>1,2</sup>	-	2,760	287	199	139	502	<12.5	-	-	-	-	-	-	-	-
MW-1	03/09/2000 <sup>3</sup>	30.75	25.21	5.54	166 <sup>1</sup>	-	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 <sup>7</sup>	-	650 <sup>6</sup>	130	49	69	190	21	-	-	-	-	-	-	-	-
MW-1	12/22/2000	30.75	25.70	5.05	200 <sup>9</sup>	-	640 <sup>6</sup>	110	33	58	160	68	-	-	-	-	-	-	-	-
MW-1	03/01/2001	30.75	25.50	5.25	211 <sup>7</sup>	-	1,500 <sup>6</sup>	210	67.9	109	320	87.3	-	-	-	-	-	-	-	-
MW-1	05/04/2001	30.75	25.34	5.41	130 <sup>7</sup>	-	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 <sup>14</sup>	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 <sup>14</sup>	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 <sup>14</sup>	30.75	26.16	4.59	860	-	500	44	5	12	54	-	-	76	<50	-	-	-	-	-



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 CHEVRON SERVICE STATION 94800  
 1700 CASTRO ST.  
 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	11/16/2004 <sup>14</sup>	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 <sup>14</sup>	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	11/07/2005 <sup>14</sup>	34.01	26.02	7.99	260 <sup>20</sup>	-	180	7	<0.5	3	24	-	-	260	<50	-	-	-	-	-
MW-1	02/06/2006	34.01	25.68	8.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	05/08/2006 <sup>14</sup>	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 <sup>14</sup>	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 <sup>14</sup>	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 <sup>14</sup>	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 <sup>14</sup>	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 <sup>14</sup>	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-1	12/09/2011	34.01	25.79	8.22	67 J	-	61 J	<0.5	<0.5	<0.5	<0.5	-	-	89	<50	-	-	-	-	-
MW-1	05/31/2012	34.01	25.49	8.52	<50	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	23	<50	-	-	-	-	-
MW-1	11/14/2012	34.01	26.00	8.01	-	<50	<50	<0.5	<0.5	<0.5	<0.5	-	-	3	<50	-	-	-	-	-
MW-1	06/03/2013	34.01	25.94	8.07	-	<50	<50	<0.5	<0.5	<0.5	<0.5	-	-	1	<50	-	-	-	-	-
MW-1	12/12/2013	34.01	26.70	7.31	<50	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<50	-	-	-	-	-

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 CHEVRON SERVICE STATION 94800  
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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	05/30/2014	34.01	26.32	7.69	-	<50	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
<b>MW-1</b>	<b>12/08/2014</b>	<b>34.01</b>	<b>26.44</b>	<b>7.57</b>	-	<b>130</b>	<b>&lt;50</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	-	-	<b>&lt;0.5</b>	<b>&lt;50</b>	-	-	-	-	-
MW-2	06/04/1997	30.00	24.87	5.13	4,000 <sup>1</sup>	-	13,000	790	30	420	1,700	4,000	-	-	-	-	-	-	-	-
MW-2	09/16/1997	30.00	24.94	5.06	2,200 <sup>1</sup>	-	4,000	360	9.7	210	460	1,500	-	-	-	-	-	-	-	-
MW-2	12/17/1997	30.00	24.82	5.18	2,100 <sup>1</sup>	-	4,100	380	<10	200	460	2,100	-	-	-	-	-	-	-	-
MW-2	03/18/1998	30.00	23.57	6.43	3,700 <sup>1</sup>	-	8,400	1,800	<50	350	630	13,000	-	-	-	-	-	-	-	-
MW-2	06/28/1998 <sup>4</sup>	30.00	23.79	6.21	4,400 <sup>1</sup>	-	9,300	740	340	710	2,300	-	3,800	-	-	-	-	-	-	-
MW-2	09/07/1998	30.00	24.22	5.78	3,100 <sup>1</sup>	-	9,900	1,000	150	640	1,800	4,500 / 4,100 <sup>5</sup>	-	-	-	-	-	-	-	-
MW-2	12/09/1998	30.00	24.69	5.31	1,900 <sup>1</sup>	-	8,500	860	74	610	960	2,600 / 2,600 <sup>5</sup>	-	-	-	-	-	-	-	-
MW-2	03/11/1999	30.00	24.21	5.79	2,700 <sup>1</sup>	-	12,500	1,520	42.2	645	2,250	5,050 / 3,400 <sup>5</sup>	-	-	-	-	-	-	-	-
MW-2	06/17/1999	30.00	24.31	5.69	7,150 <sup>1</sup>	-	27,000	2,200	260	1,500	5,900	4,700	-	-	-	-	-	-	-	-
MW-2	09/29/1999	30.00	24.55	5.45	3,030 <sup>1</sup>	-	6,910	582	11.1	491	1,170	1,970	-	-	-	-	-	-	-	-
MW-2	12/14/1999	30.00	24.61	5.39	615 <sup>1,2</sup>	-	4,230	282	12.3	284	690	631	-	-	-	-	-	-	-	-
MW-2	03/09/2000 <sup>3</sup>	30.00	23.92	6.08	3,300 <sup>1</sup>	-	15,300	1,110	39.4	1,040	3,030	2,470	-	-	-	-	-	-	-	-
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 <sup>7</sup>	-	3,600 <sup>6</sup>	280	<10	420	430	290	-	-	-	-	-	-	-	-
MW-2	12/22/2000	30.00	24.61	5.39	870 <sup>9</sup>	-	1,500 <sup>6</sup>	100	<1.3	160	59	380	-	-	-	-	-	-	-	-
MW-2	03/01/2001	30.00	24.21	5.79	1,320 <sup>7</sup>	-	2,340 <sup>6</sup>	171	<5.00	238	157	864	-	-	-	-	-	-	-	-
MW-2	05/04/2001	30.00	24.17	5.83	3,100 <sup>7</sup>	-	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 <sup>14</sup>	30.00	23.93	6.07	4,100	-	4,700	140	4	370	84	-	-	2,700	-	-	-	-	-	-
MW-2	09/16/2003 <sup>14</sup>	30.00	24.31	5.69	1,800 <sup>15</sup>	-	1,300	38	<1	110	3	-	-	1,300	<130	-	-	-	-	-

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 CHEVRON SERVICE STATION 94800  
 1700 CASTRO ST.  
 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	12/31/2003 <sup>14</sup>	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 <sup>14</sup>	30.00	24.47	5.53	400	-	300	9	<0.5	18	1	-	-	340	<50	-	-	-	-	-
MW-2	11/16/2004 <sup>14</sup>	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 <sup>14</sup>	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 <sup>14</sup>	32.59	24.32	8.27	300 <sup>20</sup>	-	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 <sup>14</sup>	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 <sup>14</sup>	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 <sup>14</sup>	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 <sup>14</sup>	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 <sup>14</sup>	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	11/13/2008 <sup>14</sup>	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-2	12/09/2011	32.59	24.12	8.47	180	-	140	<0.5	<0.5	<0.5	<0.5	-	-	8	<50	-	-	-	-	-
MW-2	05/31/2012	32.59	23.94	8.65	78 J	-	75 J	<0.5	<0.5	<0.5	<0.5	-	-	4	<50	-	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA  
 CHEVRON SERVICE STATION 94800  
 1700 CASTRO ST.  
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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	11/14/2012	32.59	24.12	8.47	-	78 J	69 J	<0.5	<0.5	<0.5	<0.5	-	-	3	<50	-	-	-	-	-
MW-2	06/03/2013	32.59	24.31	8.28	-	<50	<50	<0.5	<0.5	<0.5	<0.5	-	-	2	<50	-	-	-	-	-
MW-2	12/12/2013	32.59	25.23	7.36	89 J	-	69 J	<0.5	<0.5	<0.5	<0.5	-	-	0.7 J	<50	-	-	-	-	-
MW-2	05/30/2014	32.59	25.10	7.49	-	<50	<50	<0.5	<0.5	<0.5	<0.5	-	-	0.7 J	-	-	-	-	-	-
<b>MW-2</b>	<b>12/08/2014</b>	<b>32.59</b>	<b>24.92</b>	<b>7.67</b>	-	<b>&lt;50</b>	<b>59 J</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	-	-	<b>&lt;0.5</b>	<b>&lt;50</b>	-	-	-	-	-
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 <sup>1</sup>	-	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 <sup>1</sup>	-	530	190	110	24	88	210	-	-	-	-	-	-	-	-
MW-3	09/29/1999	31.32	25.71	5.61	232 <sup>1</sup>	-	433	97.8	61.4	16.9	56.6	156	-	-	-	-	-	-	-	-
MW-3	12/14/1999	31.32	25.77	5.55	<50 <sup>2</sup>	-	8,650	1,040	795	212	800	995	-	-	-	-	-	-	-	-
MW-3	03/09/2000 <sup>3</sup>	31.32	25.18	6.14	74.6 <sup>1</sup>	-	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 <sup>8</sup>	-	220 <sup>6</sup>	42	33	12	38	67	-	-	-	-	-	-	-	-
MW-3	12/22/2000	31.32	25.80	5.52	110 <sup>9</sup>	-	370 <sup>6</sup>	96	48	18	58	180	-	-	-	-	-	-	-	-
MW-3	03/01/2001	31.32	25.57	5.75	144 <sup>7</sup>	-	912 <sup>6</sup>	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	-	-	-	-	-	-	-	-

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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-3	03/03/2003	31.32	25.40	5.92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	06/17/2003 <sup>14</sup>	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 <sup>14</sup>	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 <sup>14</sup>	31.32	25.86	5.46	110	-	630	84	18	11	35	-	-	410	<50	-	-	-	-	-
MW-3	11/16/2004 <sup>14</sup>	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 <sup>14</sup>	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 <sup>14</sup>	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 <sup>14</sup>	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 <sup>14</sup>	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 <sup>14</sup>	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 <sup>14</sup>	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 <sup>14</sup>	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 <sup>14</sup>	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	-	-	-	-	-

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 CHEVRON SERVICE STATION 94800  
 1700 CASTRO ST.  
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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-3	05/04/2011	34.16	24.90	9.26	-	250	370	30	<0.5	<0.5	8	-	-	200	<50	-	-	-	-	-
MW-3	12/09/2011	34.16	25.56	8.60	64 J	-	210	10	<0.5	<0.5	9	-	-	230	<50	-	-	-	-	-
MW-3	05/31/2012	34.16	25.13	9.03	<50	-	<50	1	<0.5	<0.5	1	-	-	18	<50	-	-	-	-	-
MW-3	11/14/2012	34.16	25.36	8.80	-	<50	56 J	2	<0.5	<0.5	4	-	-	150	<50	-	-	-	-	-
MW-3	06/03/2013	34.16	25.72	8.44	-	110	73 J	2	<0.5	<0.5	3	-	-	42	<50	-	-	-	-	-
MW-3	12/12/2013	34.16	26.47	7.69	140	-	110	1	<0.5	<0.5	2	-	-	74	<50	-	-	-	-	-
MW-3	05/30/2014	34.16	26.00	8.16	-	<50	190	1	<0.5	<0.5	2	-	-	86	-	-	-	-	-	-
<b>MW-3</b>	<b>12/08/2014</b>	<b>34.16</b>	<b>26.40</b>	<b>7.76</b>	-	<b>&lt;50</b>	<b>&lt;50</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>0.8 J</b>	-	-	<b>11</b>	<b>&lt;50</b>	-	-	-	-	-
MW-4	04/08/1999	30.13	-	-	-	-	130	3.1	<0.5	<0.5	7.7	4,700 / 5,400	-	-	<25,000	<5,000	<100	<100	<100	
MW-4	06/17/1999	30.13	24.94	5.19	3,780 <sup>1</sup>	-	590	58	<5.0	<5.0	160	6,200	-	-	-	-	-	-	-	
MW-4	09/29/1999	30.13	25.17	4.96	1,130 <sup>1</sup>	-	692	10.7	<2.5	5.51	236	7,840	-	-	-	-	-	-	-	
MW-4	12/14/1999	30.13	25.22	4.91	571 <sup>1,2</sup>	-	625	<10	3.83	<10	94.6	4,470	-	-	-	-	-	-	-	
MW-4	03/09/2000 <sup>3</sup>	30.13	24.68	5.45	600 <sup>1</sup>	-	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 <sup>7</sup>	-	280 <sup>6</sup>	21	0.67	6.3	60	3,300	-	-	-	-	-	-	-	
MW-4	12/22/2000	30.13	25.23	4.90	740 <sup>9</sup>	-	240 <sup>6</sup>	2.2	<0.50	1.3	25	2,200	-	-	-	-	-	-	-	
MW-4	03/01/2001	30.13	24.98	5.15	661 <sup>7</sup>	-	193	2.31	<0.500	1.34	12.1	1,220	-	-	-	-	-	-	-	
MW-4	05/04/2001	30.13	24.88	5.25	1,100 <sup>7</sup>	-	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 <sup>12</sup>	-	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 <sup>14</sup>	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 <sup>14</sup>	30.13	24.98	5.15	2,100 <sup>16</sup>	-	480	6	<1	11	3	-	-	710	<100	-	-	-	-	
MW-4	12/31/2003 <sup>14</sup>	30.13	25.06	5.07	1,400	-	220	3	<0.5	2	<0.5	-	-	390	<50	-	-	-	-	

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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	03/26/2004	30.13	24.53	5.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	08/17/2004 <sup>14</sup>	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 <sup>14</sup>	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 <sup>14</sup>	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 <sup>14</sup>	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 <sup>14</sup>	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 <sup>14</sup>	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 <sup>14</sup>	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 <sup>14</sup>	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-4	05/01/2008 <sup>14</sup>	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 <sup>14</sup>	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-4	12/09/2011	33.07	25.12	7.95	140	-	56 J	<0.5	<0.5	<0.5	<0.5	-	-	18	<50	-	-	-	-	
MW-4	05/31/2012	33.07	24.75	8.32	140	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	17	<50	60	<0.5	<0.5	0.7 J	
MW-4	11/14/2012	33.07	25.22	7.85	-	<50	<50	<0.5	<0.5	<0.5	<0.5	-	-	21	<50	-	-	-	-	



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 CHEVRON SERVICE STATION 94800  
 1700 CASTRO ST.  
 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	06/03/2013	33.07	25.28	7.79	-	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	7	<50	21	<0.5	<0.5	<0.5
MW-4	12/12/2013	33.07	26.09	6.98	100	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	12	<50	-	-	-	-
MW-4	05/30/2014	33.07	26.29	6.78	-	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	7	-	45	<0.5	<0.5	<0.5
<b>MW-4</b>	<b>12/08/2014</b>	<b>33.07</b>	<b>25.72</b>	<b>7.35</b>	-	<b>&lt;50</b>	<b>&lt;50</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	-	-	<b>14</b>	<b>&lt;50</b>	-	-	-	-
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 <sup>1</sup>	-	<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 <sup>2</sup>	-	<50	<0.5	<0.5	<0.5	<0.5	0.598	-	-	-	-	-	-	-	-
MW-5	03/09/2000 <sup>3</sup>	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 <sup>8</sup>	-	<50	<0.50	<0.50	<0.50	<0.50	<2.5	-	-	-	-	-	-	-	-
MW-5	12/22/2000	30.93	26.33	4.60	250 <sup>8</sup>	-	<50	<0.50	<0.50	<0.50	<0.50	9.1	-	-	-	-	-	-	-	-
MW-5	03/01/2001	30.93	26.16	4.77	77.4 <sup>7</sup>	-	<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 <sup>14</sup>	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 <sup>14</sup>	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	

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 CHEVRON SERVICE STATION 94800  
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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	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 <sup>2</sup>	-	<50	<0.5	<0.5	<0.5	<0.5	4.13	-	-	-	-	-	-	-	-
MW-6	03/09/2000 <sup>3</sup>	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 <sup>8</sup>	-	<50	<0.50	<0.50	<0.50	<0.50	7.3	-	-	-	-	-	-	-	-
MW-6	12/22/2000	30.58	24.83	5.75	100 <sup>8</sup>	-	<50	<0.50	<0.50	<0.50	<0.50	4.5	-	-	-	-	-	-	-	-
MW-6	03/01/2001	30.58	24.51	6.07	141 <sup>7</sup>	-	<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	<0.500	<0.500	<0.500	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 <sup>14</sup>	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 <sup>14</sup>	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 <sup>11</sup>	31.90	27.87	4.03	<50	-	<50.0	<0.500	<5.00	<5.00	<5.00	567	-	470 <sup>12</sup>	<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 <sup>12</sup>	<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 <sup>12</sup>	<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 <sup>12</sup>	<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 <sup>12</sup>	-	<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	-	-	-	-	-	-	-	-

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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-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 <sup>14</sup>	31.90	27.76	4.14	<50	-	79	<0.5	<0.5	<0.5	<0.5	-	-	2,500	-	37	<0.5	<0.5	53	
MW-7	09/16/2003 <sup>14</sup>	31.90	27.83	4.07	<50 <sup>17</sup>	-	110	<5	<5	<5	<5	-	-	4,400	<500	-	-	-	-	
MW-7	12/31/2003 <sup>14</sup>	31.90	27.86	4.04	<50	-	76	<2.0	<2.0	<2.0	<2.0	-	-	3,000	<200	-	-	-	-	
MW-7	03/26/2004 <sup>14</sup>	31.90	27.65	4.25	<50	-	61	<1	<1	<1	<1	-	-	2,000	-	-	-	-	-	
MW-7	08/17/2004 <sup>14</sup>	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 <sup>14</sup>	34.35	27.87	6.48	<50	-	200	<3	<3	<3	<3	-	-	7,300	<250	-	-	-	-	
MW-7	02/18/2005 <sup>14</sup>	34.35	27.60	6.75	64	-	86	<10	<10	<10	<10	-	-	5,700	<1,000	-	-	-	-	
MW-7	05/06/2005 <sup>14</sup>	34.35	27.43	6.92	60	-	160	<5	<5	<5	<5	-	-	8,400	<500	<50	<5	<5	140	
MW-7	08/05/2005 <sup>14</sup>	34.35	27.65	6.70	81 <sup>18</sup>	-	500	<5	<5	<5	<5	-	-	20,000 <sup>19</sup>	<500	-	-	-	-	
MW-7	11/07/2005 <sup>14</sup>	34.35	27.79	6.56	68	-	300	<10	<10	<10	<10	-	-	24,000	<1,000	-	-	-	-	
MW-7	02/06/2006 <sup>14</sup>	34.35	27.54	6.81	72 <sup>21</sup>	-	300	<0.5	<0.5	<0.5	<0.5	14,000	-	-	<50	-	-	-	-	
MW-7	05/08/2006 <sup>14</sup>	34.35	27.15	7.20	94	-	80	<2.0	<2.0	3	7	6,500	-	-	<200	-	-	-	-	
MW-7	08/08/2006 <sup>14</sup>	34.35	27.53	6.82	150	-	520	<10	<10	<10	<10	17,000	-	-	<1,000	-	-	-	-	
MW-7	11/08/2006 <sup>14</sup>	34.35	27.75	6.60	440	-	900	<5	<5	<5	<5	41,000	-	-	<500	-	-	-	-	
MW-7	02/06/2007 <sup>14</sup>	34.35	27.76	6.59	200	-	590	<5	<5	<5	<5	-	-	31,000	<500	-	-	-	-	
MW-7	05/01/2007 <sup>14</sup>	34.35	27.65	6.70	190	-	380	<3	<3	<3	<3	-	-	14,000	<250	<10	<3	<3	260	
MW-7	07/31/2007 <sup>14</sup>	34.35	27.75	6.60	270	-	570	<3	<3	<3	<3	-	-	15,000	<250	-	-	-	-	
MW-7	11/08/2007 <sup>14</sup>	34.35	27.83	6.52	150	-	520	<5	<5	<5	<5	-	-	25,000	<500	-	-	-	-	
MW-7	02/04/2008 <sup>14</sup>	34.35	27.69	6.66	87	-	540	<1	<1	<1	<1	-	-	17,000	<100	-	-	-	-	
MW-7	05/01/2008 <sup>14</sup>	34.35	27.72	6.63	<50	-	230	<5	<5	<5	<5	-	-	10,000	<500	<20	<5	<5	170	
MW-7	08/01/2008 <sup>14</sup>	34.35	27.84	6.51	<50	-	330	<3	<3	<3	<3	-	-	12,000	<250	-	-	-	-	
MW-7	11/13/2008 <sup>14</sup>	34.35	28.01	6.34	64	-	390	<10	<10	<10	<10	-	-	16,000	<1,000	-	-	-	-	
MW-7	02/23/2009 <sup>14</sup>	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	-	-	-	-	

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA  
 CHEVRON SERVICE STATION 94800  
 1700 CASTRO ST.  
 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
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
MW-7	12/09/2011	34.35	26.15	8.20	66 J	-	250	<0.5	<0.5	<0.5	<0.5	-	-	7,400	<50	-	-	-	-
MW-7	05/31/2012	34.35	27.40	6.95	81 J	-	240	<3	<3	<3	<3	-	-	10,000	<250	<10	<3	<3	230
MW-7	11/14/2012	34.35	27.47	6.88	-	<50	320	<0.5	<0.5	<0.5	<0.5	-	-	8,200	<50	-	-	-	-
MW-7	06/03/2013	34.35	27.80	6.55	-	<50	60 J	<0.5	<0.5	<0.5	<0.5	-	-	1,400	<50	<2	<0.5	0.7 J	33
MW-7	12/12/2013	34.35	28.80	5.55	350	-	160	2	<0.5	<0.5	3	-	-	50	<50	-	-	-	-
MW-7	05/30/2014	34.35	28.02	6.33	-	<50	<50	<0.5	<0.5	<0.5	<0.5	-	-	990	-	5 J	<0.5	1	22
<b>MW-7</b>	<b>12/08/2014</b>	<b>34.35</b>	<b>27.94</b>	<b>6.41</b>	-	<b>&lt;50</b>	<b>&lt;50</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	-	-	<b>1,000</b>	<b>&lt;50</b>	-	-	-	-
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	-	-	-	-	-	-	-
QA	12/06/2002	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-	-
QA	06/17/2003 <sup>14</sup>	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-
QA	09/16/2003 <sup>14</sup>	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-
QA	12/31/2003 <sup>14</sup>	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-
QA	03/26/2004 <sup>14</sup>	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-
QA	08/17/2004 <sup>14</sup>	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-
QA	11/16/2004 <sup>14</sup>	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-
QA	02/18/2005 <sup>14</sup>	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-
QA	05/06/2005 <sup>14</sup>	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-
QA	08/05/2005 <sup>14</sup>	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-
QA	11/07/2005 <sup>14</sup>	-	-	-	-	-	<50	0.6	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-
QA	02/06/2006 <sup>14</sup>	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	05/08/2006 <sup>14</sup>	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	08/08/2006 <sup>14</sup>	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	11/08/2006 <sup>14</sup>	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	02/06/2007 <sup>14</sup>	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA  
 CHEVRON SERVICE STATION 94800  
 1700 CASTRO ST.  
 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
QA	05/01/2007 <sup>14</sup>	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	07/31/2007 <sup>14</sup>	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	11/08/2007 <sup>14</sup>	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	02/04/2008 <sup>14</sup>	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	05/01/2008 <sup>14</sup>	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	08/01/2008 <sup>14</sup>	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	11/13/2008 <sup>14</sup>	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	02/23/2009 <sup>14</sup>	-	-	-	-	-	<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	-	-	-	-	-	-
QA	12/09/2011	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	05/31/2012	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	11/14/2012	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	06/03/2013	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	12/12/2013	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	05/30/2014	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-
QA	12/08/2014	-	-	-	-	-	<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	-	-	-	-	-	-	-	-
Trip Blank	12/17/1997	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
Trip Blank	03/18/1998	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
Trip Blank	06/28/1998	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<2.5	-	-	-	-	-	-	-
Trip Blank	09/07/1998	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
Trip Blank	12/09/1998	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA  
 CHEVRON SERVICE STATION 94800  
 1700 CASTRO ST.  
 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
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 <sup>3</sup>	-	-	-	-	-	<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 <sup>10</sup>	-	-	-	-	-	<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 = Xylenes (Total)
- MTBE = Methyl tertiary butyl ether
- TBA = Tert-butyl alcohol
- DIPE = Di-isopropyl ether
- ETBE = Ethyl t-butyl ether

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA  
 CHEVRON SERVICE STATION 94800  
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 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

TAME = Tert-amyl methyl ether

-- = Not available / not applicable

<x = Not detected above laboratory method detection limit

J = Estimated Value (The result is ≥ the method detection limit and < the limit of quantitation)

- 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



February 5, 2015

Chevron Environmental Management Company  
Alexis Coulter  
6101 Bollinger Canyon Rd.  
San Ramon, CA 94583

Fourth Quarter 2014 Monitoring at  
Chevron Service Station 94800  
1700 Castro St.  
Oakland, CA

Monitoring performed on December 8, 2014

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**Blaine Tech Services, Inc. Groundwater Monitoring Event 141208-BW2**

This submission covers the routine monitoring of groundwater wells conducted on December 8, 2014 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. 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.

Fourth 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](http://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 Blaine Tech 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  
Wellhead Inspection Form  
Bill of Lading  
Calibration Log

cc: CRA  
Attn: Nathan Lee  
2300 Clayton Rd., Suite 920  
Concord, CA 94520

Fourth 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

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www.blainetech.com

# 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.

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## **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 product.

### **TRADITIONAL PURGING & SAMPLING**

#### **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.

### **Sample Collection**

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.

### **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.

### **Dissolved Oxygen Measurements**

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

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.

### **Oxidation Reduction Potential Measurements (ORP)**

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

## **LOW FLOW SAMPLING USING SAMPLE-PRO BLADDER PUMP**

### **Calibration**

Calibrate YSI Flow Cell as per manufacturer's specifications. Thoroughly rinse probe and cup between parameters. Calibration order as follows:

1. pH (use 3-point calibration of 7, 4, 10)
2. Specific Conductance
3. Temperature

### **Purging & Sampling Collection**

1. Insert new bladder into Sample-Pro pump housing.
2. Remove dedicated PE tubing from the well or start with new PE tubing cut to the required length.
3. Attach the PE tubing to the Sample-Pro Bladder Pump.
4. Gently lower the Sample-Pro Bladder Pump, and PE tubing into the well, placing the Sample-Pro Bladder Pump intake at the specified screened interval. Take care to minimize disturbance to the water column.
5. Direct effluent line into YSI 556 Flow Cell.
6. Set Sample-Pro Bladder Pump speed at 100 - 500 ml/min.
7. Collect water quality parameter measurements for temperature, pH, conductivity, turbidity, DO and ORP every 3-5 minutes.
8. Monitor drawdown during purging with electronic water level meter. Record water level with each parameter measurement. **MAXIMUM DRAWDOWN IS 0.33 FEET.**
9. Collect parameter measurements until stability is achieved. Stability is defined as three consecutive measurements where:

Temp	± 1° Celsius
pH	± 0.1
Conductivity	± 3%

10. Sample may be collected once one system has been removed and stability readings have been achieved after the system volume has been removed.
11. Disconnect effluent line from YSI 556 Flow Cell.
12. Sample through effluent line while maintaining constant flow rate.
13. Remove Sample-Pro Bladder Pump, and PE tubing from well.
14. Detach and reinstall dedicated PE tubing in well.

## **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 or Non-Hazardous Waste Manifest to a Blaine Tech Services, Inc. facility before being transported to a Chevron approved disposal facility

### **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.

### **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. Field documentation is contemporaneous.

### **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 such as hose reels, pumps and bailers 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. 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.

### **FERROUS IRON MEASUREMENTS**

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

## WELL GAUGING DATA

Project # 141208-BW2 Date 12/8/14 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 <u>(TOC)</u>	Notes
MW-1	1240	2					26.44	30.72	↓	
MW-2	1305	2				24.92	30.22			
MW-3	1246	2				26.40	30.22			
MW-4	1259	2				25.72	28.90			
MW-7	1254	2				27.94	30.12			

## CHEVRON WELL MONITORING DATA SHEET

Project #: 141208-BWZ	Station #: 9-4800
Sampler: BW	Date: 12/8/14
Weather: Clear	Ambient Air Temperature: 65°F
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 _____
Total Well Depth: 30.72	Depth to Water: 26.44
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]: 27.30	

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: \_\_\_\_\_

0.7 (Gals.) X	3	= 2.1 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 <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond. (mS or μS)	Turbidity (NTUs)	Gals. Removed	Observations
1315	68.0	7.02	779	481	0.7	
1317	67.8	6.94	757	>1000	1.4	
1319	67.8	6.91	752	>1000	2.1	

Did well dewater? Yes  No  Gallons actually evacuated: 2.1

Sampling Date: 12/8/14 Sampling Time: 1325 Depth to Water: 27.12

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 #: 141208-BWZ	Station #: 9-4800
Sampler: BW	Date: 12/8/14
Weather: Clear	Ambient Air Temperature: 65°F
Well I.D.: MW-2	Well Diameter: (2) 3 4 6 8 _____
Total Well Depth: 30.22	Depth to Water: 24.92
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:

- Bailer  
 Disposable Bailer  
 Positive Air Displacement  
 Electric Submersible  
 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 <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond. (mS or μS)	Turbidity (NTUs)	Gals. Removed	Observations
1509	68.4	6.84	744	247	0.9	
1511	68.1	6.91	781	263	1.8	
1513	68.0	6.94	782	321	2.7	

Did well dewater? Yes  No  Gallons actually evacuated: 2.7

Sampling Date: 12/8/14 Sampling Time: 1520 Depth to Water: 25.12

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 #: 141208-BW2	Station #: 9-4800
Sampler: BW	Date: 12/8/14
Weather: Clear	Ambient Air Temperature: 65°F
Well I.D.: MW-3	Well Diameter: (2') 3 4 6 8
Total Well Depth: 30.22	Depth to Water: 26.40
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]: 27.16	

Purge Method:  Bailer  Waterra  Disposable Bailer  Peristaltic  Extraction Pump  Other \_\_\_\_\_

Sampling Method:  Bailer  Disposable Bailer  Extraction Port  Dedicated Tubing  Other \_\_\_\_\_

0.6 (Gals.) X 3 = 1.8 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 <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond. (mS or $\mu$ S)	Turbidity (NTUs)	Gals. Removed	Observations
1342	67.4	6.71	1204	291	0.6	
1344	67.3	6.68	1231	483	1.2	
1346	67.3	6.65	1240	622	1.8	

Did well dewater? Yes  No  Gallons actually evacuated: 1.8

Sampling Date: 12/8/14      Sampling Time: 1350      Depth to Water: 27.00

Sample I.D.: MW-3      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 #: 141208-BWZ	Station #: 9-4800
Sampler: BW	Date: 12/8/14
Weather: Clear	Ambient Air Temperature:
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8
Total Well Depth: 28.90	Depth to Water: 25.72
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]: 26.36	

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: \_\_\_\_\_

0.5 (Gals.) X	3	= 1.5 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 <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond. (mS or $\mu$ S)	Turbidity (NTUs)	Gals. Removed	Observations
1441	64.9	7.11	910	468	0.5	
1443	65.1	7.04	874	322	1.0	
1445	65.0	6.94	813	407	1.5	

Did well dewater? Yes  No  Gallons actually evacuated: 1.5

Sampling Date: 12/8/14 Sampling Time: 1450 Depth to Water: 26.02

Sample I.D.: MW-4 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 #: 141208-BW2	Station #: 9-4800
Sampler: BW	Date: 12/8/14
Weather: Clear	Ambient Air Temperature:
Well I.D.: MW-7	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth: 30.12	Depth to Water: 27.94
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]: 28.38	

Purge Method:  Bailer  Waterra  Disposable Bailer  Peristaltic  Extraction Pump  Other \_\_\_\_\_

Sampling Method: Bailer  Disposable Bailer  Extraction Port  Dedicated Tubing  Other: \_\_\_\_\_

0.4	(Gals.) X	3	=	1.2	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 <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u> )	Turbidity (NTUs)	Gals. Removed	Observations
1411	68.0	6.91	1121	471	0.4	
1413	67.8	6.88	1133	586	0.8	
1415	67.6	6.83	1147	624	1.2	

Did well dewater? Yes  No Gallons actually evacuated: 1.2

Sampling Date: 12/8/14 Sampling Time: 1420 Depth to Water: 28.21

Sample I.D.: MW-7 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

**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: T0600102076  
 Chevron Site Address: 1700 Castro St.  
Oakland, CA  
 Chevron PM: Alexis Fischer  
 Chevron PM Phone No.: (925)790-6441  
 Retail and Terminal Business Unit (RTBU) Job  
 Construction/Retail Job

Chevron Consultant: CRA  
 Address: 2300 Clayton Rd., Suite 920, Concord,  
CA Consultant Contact: Nathan Lee  
 Consultant Phone No. 925-849-1003  
 Consultant Project No. 141208-BWZ  
 Sampling Company: Blaine Tech Services  
 Sampled By (Print): Brian Weeks  
 Sampler Signature: [Signature]

**ANALYSES REQUIRED**

<input type="checkbox"/> HVOC	<input type="checkbox"/> OXYGENATES	<input type="checkbox"/> HC SCREEN	<input type="checkbox"/> DRO	<input type="checkbox"/> ORO	<input type="checkbox"/> TITL	<input type="checkbox"/> STLC	<input type="checkbox"/> EPA 310.1 ALKALINITY	<input type="checkbox"/> EPA 413.1 OIL & GREASE
<input type="checkbox"/> BIEX	<input checked="" type="checkbox"/> GRO	<input checked="" type="checkbox"/> MTBE	<input checked="" type="checkbox"/> GRO	<input checked="" type="checkbox"/> GRO	<input type="checkbox"/> TITL	<input type="checkbox"/> STLC	<input type="checkbox"/> EPA 150.1 PH	<input type="checkbox"/> EPA 418.1 TRPH
<input checked="" type="checkbox"/> BTEX	<input checked="" type="checkbox"/> MTBE	<input checked="" type="checkbox"/> GRO	<input checked="" type="checkbox"/> GRO	<input checked="" type="checkbox"/> GRO	<input type="checkbox"/> TITL	<input type="checkbox"/> STLC	<input type="checkbox"/> EPA 8260 ETHANOL	<input checked="" type="checkbox"/> EPA 8015 TPH-D
<input type="checkbox"/> Ca, Fe, K, Mg, Mn, Na	<input type="checkbox"/> EPA 6010 Ca, Fe, K, Mg, Mn, Na			<input type="checkbox"/> EPA 6010/7000 TITLE 22 METALS			<input type="checkbox"/> SM2510B SPECIFIC CONDUCTIVITY	

**Preservation Codes**

H = HCL T = Thiosulfate  
 N = HNO<sub>3</sub> B = NaOH  
 S = H<sub>2</sub>SO<sub>4</sub> O = Other  
10991  
1524385  
7705329-34

Charge Code: NWRTB-0098247-0-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: Nicole Maljovec  
 2425 New Holland Pike,  
 Lancaster, PA 17601  
 Phone No:  
 (717)656-2300

Other Lab	Temp. Blank Time	Check Temp.
_____	<u>1200</u>	<u>4°C</u>
_____	<u>1300</u>	<u>4°C</u>
_____	<u>1400</u>	<u>4°C</u>
_____	<u>1500</u>	<u>4°C</u>

SAMPLE ID				Sample Time	# of Containers	Container Type	ANALYSES REQUIRED								Notes/Comments			
Field Point Name	Matrix	Top Depth	Date (yymmdd)				EPA 8260B/GC/MS	TPH-G	BIEX	EPA 8015B	GRO	DRO	ORO	TITL		STLC	EPA 310.1 ALKALINITY	SM2510B SPECIFIC CONDUCTIVITY
MW-1	W6		12/12/08	1325	8	MIX	X	X							X	X		
MW-2	↓		↓	1520	8	↓	X	X							X	X		
MW-3	↓		↓	1350	8	↓	X	X							X	X		
MW-4	↓		↓	1450	8	↓	X	X							X	X		
MW-7	↓		↓	1420	8	↓	X	X							X	X		
QA	TB		↓	1220	2	VOA	X	X										

Relinquished By: [Signature] Company: BTS Date/Time: 12/8/14 @ 1530  
 Relinquished By: [Signature] Company: ELLE Date/Time: 12/9/14  
 Relinquished By: \_\_\_\_\_ Company: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Relinquished To: [Signature] Company: ELLE Date/Time: 12/8/14 1530  
 Relinquished To: [Signature] Company: FE Date/Time: \_\_\_\_\_  
 Relinquished To: [Signature] Company: ELLE Date/Time: 12-10-14

Turnaround Time: Standard  24 Hours  48 hours  72 Hours  Other   
 Sample Integrity: (Check by lab on arrival)  
 Intact:  On Ice:  Temp: 0.3-2.6  
 COC # \_\_\_\_\_



# WELLHEAD INSPECTION CHECKLIST

Client Chevron Date 12/8/14

Site Address 1700 Castro St. Oakland

Job Number 141208 - BWZ Technician BW

Well ID	Well Inspected - No Corrective Action Required	WELL IS SECURABLE BY DESIGN (12" or less)	WELL IS 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
MW-1								X		
MW-2								X		
MW-3	X									
MW-4	X									
MW-7	X									

NOTES: MW-1: 1/3 bolts missing  
MW-2: 1/3 Tabs Broken, 3/3 bolts missing

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SOURCE RECORD **BILL OF LADING**

FOR PURGEWATER RECOVERED FROM GROUNDWATER WELLS AT CHEVRON FACILITIES IN THE STATE OF CALIFORNIA. THE PURGE- WATER WHICH HAS BEEN RECOVERED FROM GROUND- WATER WELLS IS COLLECTED BY THE CONTRACTOR AND HAULED TO THEIR FACILITY IN SAN JOSE, CALIFORNIA FOR TEMPORARILY HOLDING PENDING TRANSPORT BY OTHERS TO FINAL DESTINATION.

The contractor performing this work is BLAINE TECH SERVICES, INC. (BLAINE TECH), 1680 Rogers Ave. San Jose CA (408) 573-0555). BLAINE TECH. is authorized by Chevron Environmental Management Company (CHEVRON EMC) to recover, collect, apportion into loads, and haul the purgewater that is drawn from wells at the CHEVRON EMC facility indicated below and to deliver that purgewater to BLAINE TECH for temporarily holding. Transport routing of the purgewater may be direct from one CHEVRON EMC facility to BLAINE TECH; from one CHEVRON EMC facility to BLAINE TECH via another CHEVRON EMC facility; or any combination thereof. The well purgewater is and remains the property of CHEVRON EMC.

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 Alexis Fischer  
 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>1</u>	<u>/</u>	<u>/</u>
<u>MW-2</u>	<u>1</u>	<u>/</u>	<u>/</u>
<u>MW-3</u>	<u>1</u>	<u>/</u>	<u>/</u>
<u>MW-4</u>	<u>1</u>	<u>/</u>	<u>/</u>
<u>MW-7</u>	<u>1</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>1</u>	adjustments	<u>1</u>
	<u>2</u>		

**TOTAL GALS.** 12 loaded onto  
**RECOVERED**                      **BTS vehicle #** 35

BTS event # 141208-BW2 time 1545 date 12/8/14

Transporter signature *[Signature]*

\*\*\*\*\*  
**REC'D AT** BTS-SJ time 1810 date 12/8/14

Unloaded/received by  
 signature *[Signature]*



ATTACHMENT B

LABORATORY ANALYTICAL REPORT

## ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

Chevron  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

February 24, 2015

Project: 94800

Submittal Date: 12/10/2014  
Group Number: 1524385  
PO Number: 0015166637  
Release Number: COULTER  
State of Sample Origin: CA

### Client Sample Description

MW-1-W-141208 NA Groundwater  
MW-2-W-141208 NA Groundwater  
MW-3-W-141208 NA Groundwater  
MW-4-W-141208 NA Groundwater  
MW-7-W-141208 NA Groundwater  
QA-T-141208 NA Water

### Lancaster Labs (LL) #

7705329  
7705330  
7705331  
7705332  
7705333  
7705334

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

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

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: Ian Hull
ELECTRONIC COPY TO	CRA	Attn: Nathan Lee

Respectfully Submitted,



Amek Carter  
Specialist

(717) 556-7252

Sample Description: MW-1-W-141208 NA Groundwater  
Facility #94800 BTST  
1700 Castro St-Oakland T0600102076

LL Sample # WW 7705329  
LL Group # 1524385  
Account # 10991

Project Name: 94800

Collected: 12/08/2014 13:25 by BW

Chevron

6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

Submitted: 12/10/2014 09:50

Reported: 02/24/2015 15:03

CSOM1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles SW-846 8260B</b>						
10945	Benzene	71-43-2	N.D.	0.5	1	1
10945	Ethanol	64-17-5	N.D.	50	250	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
<b>GC Volatiles SW-846 8015B</b>						
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1
<b>GC Petroleum SW-846 8015B</b>						
<b>Hydrocarbons w/Si</b>						
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	130	50	100	1
The reverse surrogate, capric acid, is present at <1%.						

### General Sample Comments

CA ELAP Lab Certification No. 2792

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

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/MTBE/ETOH Water	SW-846 8260B	1	P143481AA	12/14/2014 16:39	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P143481AA	12/14/2014 16:39	Sarah A Guill	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	14344B20A	12/11/2014 19:43	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	14344B20A	12/11/2014 19:43	Brett W Kenyon	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	143450021A	12/19/2014 11:29	Christine E Dolman	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	143450021A	12/12/2014 09:30	David S Schrum	1

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

Sample Description: MW-2-W-141208 NA Groundwater  
Facility #94800 BTST  
1700 Castro St-Oakland T0600102076

LL Sample # WW 7705330  
LL Group # 1524385  
Account # 10991

Project Name: 94800

Collected: 12/08/2014 15:20 by BW

Chevron

6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

Submitted: 12/10/2014 09:50

Reported: 02/24/2015 15:03

CSOM2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles SW-846 8260B</b>						
10945	Benzene	71-43-2	N.D.	0.5	1	1
10945	Ethanol	64-17-5	N.D.	50	250	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
<b>GC Volatiles SW-846 8015B</b>						
01728	TPH-GRO N. CA water C6-C12	n.a.	59 J	50	100	1
<b>GC Petroleum SW-846 8015B</b>						
<b>Hydrocarbons w/Si</b>						
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	100	1
The reverse surrogate, capric acid, is present at <1%.						

### General Sample Comments

CA ELAP Lab Certification No. 2792

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

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/MTBE/ETOH Water	SW-846 8260B	1	P143481AA	12/14/2014 17:08	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P143481AA	12/14/2014 17:08	Sarah A Guill	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	14344B20A	12/11/2014 20:10	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	14344B20A	12/11/2014 20:10	Brett W Kenyon	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	143450021A	12/18/2014 13:06	Christine E Dolman	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	143450021A	12/12/2014 09:30	David S Schrum	1

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



Sample Description: MW-3-W-141208 NA Groundwater  
Facility #94800 BTST  
1700 Castro St-Oakland T0600102076

LL Sample # WW 7705331  
LL Group # 1524385  
Account # 10991

Project Name: 94800

Collected: 12/08/2014 13:50 by BW

Chevron

6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

Submitted: 12/10/2014 09:50

Reported: 02/24/2015 15:03

CSOM3

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles SW-846 8260B</b>			ug/l	ug/l	ug/l	
10945	Benzene	71-43-2	N.D.	0.5	1	1
10945	Ethanol	64-17-5	N.D.	50	250	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	11	0.5	1	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	0.8 J	0.5	1	1
<b>GC Volatiles SW-846 8015B</b>			ug/l	ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1
<b>GC Petroleum SW-846 8015B</b>			ug/l	ug/l	ug/l	
<b>Hydrocarbons w/Si</b>						
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	100	1
The reverse surrogate, capric acid, is present at <1%.						

### General Sample Comments

CA ELAP Lab Certification No. 2792

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

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/MTBE/ETOH Water	SW-846 8260B	1	P143481AA	12/14/2014 17:36	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P143481AA	12/14/2014 17:36	Sarah A Guill	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	14344B20A	12/11/2014 20:37	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	14344B20A	12/11/2014 20:37	Brett W Kenyon	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	143450021A	12/18/2014 13:29	Christine E Dolman	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	143450021A	12/12/2014 09:30	David S Schrum	1

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

Sample Description: MW-4-W-141208 NA Groundwater  
Facility #94800 BTST  
1700 Castro St-Oakland T0600102076

LL Sample # WW 7705332  
LL Group # 1524385  
Account # 10991

Project Name: 94800

Collected: 12/08/2014 14:50 by BW

Chevron

6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

Submitted: 12/10/2014 09:50

Reported: 02/24/2015 15:03

CSOM4

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles SW-846 8260B</b>						
10945	Benzene	71-43-2	N.D.	0.5	1	1
10945	Ethanol	64-17-5	N.D.	50	250	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	14	0.5	1	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
<b>GC Volatiles SW-846 8015B</b>						
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1
<b>GC Petroleum SW-846 8015B</b>						
<b>Hydrocarbons w/Si</b>						
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	100	1
The reverse surrogate, capric acid, is present at <1%.						

### General Sample Comments

CA ELAP Lab Certification No. 2792

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

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/MTBE/ETOH Water	SW-846 8260B	1	P143481AA	12/14/2014 18:05	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P143481AA	12/14/2014 18:05	Sarah A Guill	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	14344B20A	12/11/2014 21:04	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	14344B20A	12/11/2014 21:04	Brett W Kenyon	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	143450021A	12/18/2014 13:51	Christine E Dolman	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	143450021A	12/12/2014 09:30	David S Schrum	1

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

Sample Description: MW-7-W-141208 NA Groundwater  
Facility #94800 BTST  
1700 Castro St-Oakland T0600102076

LL Sample # WW 7705333  
LL Group # 1524385  
Account # 10991

Project Name: 94800

Collected: 12/08/2014 14:20 by BW

Chevron

6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

Submitted: 12/10/2014 09:50

Reported: 02/24/2015 15:03

CSOM7

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles SW-846 8260B</b>			ug/l	ug/l	ug/l	
10945	Benzene	71-43-2	N.D.	0.5	1	1
10945	Ethanol	64-17-5	N.D.	50	250	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	1,000	5	10	10
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
<b>GC Volatiles SW-846 8015B</b>			ug/l	ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1
<b>GC Petroleum SW-846 8015B</b>			ug/l	ug/l	ug/l	
<b>Hydrocarbons w/Si</b>						
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	100	1
The reverse surrogate, capric acid, is present at <1%.						

### General Sample Comments

CA ELAP Lab Certification No. 2792

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

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/MTBE/ETOH Water	SW-846 8260B	1	P143481AA	12/14/2014 18:33	Sarah A Guill	1
10945	BTEX/MTBE/ETOH Water	SW-846 8260B	1	P143481AA	12/14/2014 19:02	Sarah A Guill	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P143481AA	12/14/2014 18:33	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	P143481AA	12/14/2014 19:02	Sarah A Guill	10
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	14344B20A	12/11/2014 21:32	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	14344B20A	12/11/2014 21:32	Brett W Kenyon	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	143450021A	12/18/2014 14:13	Christine E Dolman	1
11180	Low Vol Ext (W) w/SG	SW-846 3510C	1	143450021A	12/12/2014 09:30	David S Schrum	1

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

Sample Description: QA-T-141208 NA Water  
Facility #94800 BTST  
1700 Castro St-Oakland T0600102076

LL Sample # WW 7705334  
LL Group # 1524385  
Account # 10991

Project Name: 94800

Collected: 12/08/2014 12:20

Chevron

Submitted: 12/10/2014 09:50

6001 Bollinger Canyon Rd L4310

Reported: 02/24/2015 15:03

San Ramon CA 94583

CSOQA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>GC/MS Volatiles SW-846 8260B</b>						
10945	Benzene	71-43-2	N.D.	0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
<b>GC Volatiles SW-846 8015B</b>						
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1

### General Sample Comments

CA ELAP Lab Certification No. 2792

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

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/MTBE	SW-846 8260B	1	P143481AA	12/14/2014 10:27	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P143481AA	12/14/2014 10:27	Sarah A Guill	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	14344B20A	12/11/2014 14:15	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	14344B20A	12/11/2014 14:15	Brett W Kenyon	1

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

## Quality Control Summary

Client Name: Chevron Group Number: 1524385  
Reported: 02/24/15 at 03:03 PM

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

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

### Laboratory Compliance Quality Control

<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: P143481AA	Sample number(s): 7705329-7705334								
Benzene	N.D.	0.5	1	ug/l	87		78-120		
Ethanol	N.D.	50.	250	ug/l	76		58-139		
Ethylbenzene	N.D.	0.5	1	ug/l	90		79-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	1	ug/l	87		75-120		
Toluene	N.D.	0.5	1	ug/l	94		80-120		
Xylene (Total)	N.D.	0.5	1	ug/l	91		80-120		
Batch number: 14344B20A	Sample number(s): 7705329-7705334								
TPH-GRO N. CA water C6-C12	N.D.	50.	100	ug/l	111		80-139		
Batch number: 143450021A	Sample number(s): 7705329-7705333								
TPH-DRO CA C10-C28 w/ Si Gel	N.D.	50.	100	ug/l	73	76	40-105	4	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: P143481AA	Sample number(s): 7705329-7705334 UNSPK: P707352								
Benzene	96	94	72-134	2	30				
Ethanol	85	85	53-146	0	30				
Ethylbenzene	98	99	71-134	1	30				
Methyl Tertiary Butyl Ether	92	91	72-126	1	30				
Toluene	103	102	80-125	0	30				
Xylene (Total)	98	99	79-125	1	30				
Batch number: 14344B20A	Sample number(s): 7705329-7705334 UNSPK: P705168								
TPH-GRO N. CA water C6-C12	122	125	92-144	2	30				

### Surrogate Quality Control

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

Analysis Name: BTEX/MTBE/ETOH Water

\*- 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: 02/24/15 at 03:03 PM

Group Number: 1524385

### Surrogate Quality Control

Batch number: P143481AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7705329	94	95	104	97
7705330	95	95	105	97
7705331	95	96	105	99
7705332	95	97	105	97
7705333	95	97	105	97
7705334	94	96	105	97
Blank	94	96	106	97
LCS	93	97	105	98
MS	95	98	106	98
MSD	94	99	105	98
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO N. CA water C6-C12

Batch number: 14344B20A

	Trifluorotoluene-F
7705329	83
7705330	84
7705331	83
7705332	81
7705333	84
7705334	85
Blank	85
LCS	86
MS	87
MSD	87
Limits:	63-135

Analysis Name: TPH-DRO CA C10-C28 w/ Si Gel

Batch number: 143450021A

	Orthoterphenyl
7705329	89
7705330	89
7705331	86
7705332	84
7705333	84
Blank	78
LCS	99
LCSD	94
Limits:	42-126

\*- 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.

120914-01 500  
**CHAIN OF CUSTODY FORM**  
**Chevron Environmental Management Company ■ 6111 Bollinger Canyon Rd. ■ San Ramon, CA 94583 COC 1 of 1**

Chevron Site Number: <u>94800</u> Chevron Site Global ID: <u>T0600102076</u> Chevron Site Address: <u>1700 Castro St., Oakland, CA</u> Chevron PM: <u>Alexis Fischer</u> Chevron PM Phone No.: <u>(925)790-6441</u> <input checked="" type="checkbox"/> Retail and Terminal Business Unit (RTBU) Job <input checked="" type="checkbox"/> Construction/Retail Job	Chevron Consultant: <u>CRA</u> Address: <u>2300 Clayton Rd., Suite 920, Concord, CA</u> CA Consultant Contact: <u>Nathan Lee</u> Consultant Phone No. <u>925-849-1003</u> Consultant Project No. <u>141208-BWZ</u> Sampling Company: <u>Blaine Tech Services</u> Sampled By (Print): <u>Brian Weeks</u> Sampler Signature: <u>[Signature]</u>	<b>ANALYSES REQUIRED</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">EPA 8260B/GC/MS TPH-G</td> <td style="width: 5%;">EPA 8015B GRO</td> <td style="width: 5%;">EPA 8021B BTEX</td> <td style="width: 5%;">EPA 6010 Ca, Fe, K, Mg, Mn, Na</td> <td style="width: 5%;">EPA 6010/7000 TITILE 22 METALS</td> <td style="width: 5%;">EPA 150.1 PH</td> <td style="width: 5%;">SM2510B SPECIFIC CONDUCTIVITY</td> <td style="width: 5%;">EPA 418.1 TRPH</td> <td style="width: 5%;">EPA 8260 ETHANOL</td> <td style="width: 5%;">EPA 8015 TPH-D</td> <td style="width: 5%;">EPA 310.1 ALKALINITY</td> <td style="width: 5%;">EPA 413.1 OIL &amp; GREASE</td> <td style="width: 5%;">Preservation Codes</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>                     H = HCL T = Thiosulfate                      N = HNO<sub>3</sub> B = NaOH                      S = H<sub>2</sub>SO<sub>4</sub> O = Other                      10991                      1524385                      7705329-34                 </td> </tr> </table>	EPA 8260B/GC/MS TPH-G	EPA 8015B GRO	EPA 8021B BTEX	EPA 6010 Ca, Fe, K, Mg, Mn, Na	EPA 6010/7000 TITILE 22 METALS	EPA 150.1 PH	SM2510B SPECIFIC CONDUCTIVITY	EPA 418.1 TRPH	EPA 8260 ETHANOL	EPA 8015 TPH-D	EPA 310.1 ALKALINITY	EPA 413.1 OIL & GREASE	Preservation Codes	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	H = HCL T = Thiosulfate N = HNO <sub>3</sub> B = NaOH S = H <sub>2</sub> SO <sub>4</sub> O = Other 10991 1524385 7705329-34
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<b>Charge Code: NWR TB-0098247-0-OML</b> NWR TB 00SITE NUMBER-0- WBS <b>(WBS ELEMENTS):</b> 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.	<b>Lancaster Laboratories</b> <input checked="" type="checkbox"/> Lancaster, PA Lab Contact: Nicole Maljovec  2425 New Holland Pike, Lancaster, PA 17601 Phone No: (717)656-2300	Other Lab _____ _____ _____ _____ _____	Temp. Blank Check Time Temp. 1200 4°C 1300 4°C 1400 4°C 1500 4°C _____ _____		
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SAMPLE ID				Sample Time	# of Containers	Container Type	EPA 8260B/GC/MS TPH-G	EPA 8015B GRO	EPA 8021B BTEX	EPA 6010 Ca, Fe, K, Mg, Mn, Na	EPA 6010/7000 TITILE 22 METALS	EPA 150.1 PH	SM2510B SPECIFIC CONDUCTIVITY	EPA 418.1 TRPH	EPA 8260 ETHANOL	EPA 8015 TPH-D	Notes/Comments	
Field Point Name	Matrix	Top Depth	Date (yymmdd)															
MW-1	WG		12/12/08	1325	8	MIX	X	X										
MW-2	↓		↓	1520	8	↓	X	X							X	X		
MW-3	↓		↓	1350	8	↓	X	X							X	X		
MW-4	↓		↓	1450	8	↓	X	X							X	X		
MW-7	↓		↓	1420	8	↓	X	X							X	X		
QA	TB		↓	1220	2	VOA	X	X										

Relinquished By <u>[Signature]</u>	Company BTS	Date/Time: 12/8/14 @ 1530	Relinquished To <u>[Signature]</u>	Company ELLE	Date/Time 12/8/14 1530	Turnaround Time: Standard <input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 hours <input type="checkbox"/> 72 Hours <input type="checkbox"/> Other <input type="checkbox"/>
Relinquished By <u>[Signature]</u>	Company ELLE	Date/Time 12/9/14	Relinquished To <u>[Signature]</u>	Company FE	Date/Time	Sample Integrity: (Check by lab on arrival) Intact: <input checked="" type="checkbox"/> On Ice: <input checked="" type="checkbox"/> Temp: 0.3-2.6
Relinquished By <u>[Signature]</u>	Company	Date/Time	Relinquished To <u>[Signature]</u>	Company ELLE	Date/Time 12-10-14	COC # 950

# Explanation of Symbols and Abbreviations

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

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Laboratory Data Qualifiers:

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

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

## Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

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

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

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

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