



**RECEIVED**

10:23 am, Aug 04, 2010

**Alameda County  
Environmental Health**

**Aaron Costa**  
Project Manager  
Marketing Business Unit

**Chevron Environmental  
Management Company**  
6111 Bollinger Canyon Road  
San Ramon, CA 94583  
Tel (925) 543-2961  
Fax (925) 543-2324  
acosta@chevron.com

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

Re: Former Chevron Service Station No. 9-1851  
451 Hegenberger Drive  
Oakland, CA

I have reviewed the attached report dated August 3, 2010.

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

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

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

Sincerely,

A handwritten signature in black ink that reads "Aaron Costa".

Aaron Costa  
Project Manager

Attachment: Report



**CONESTOGA-ROVERS  
& ASSOCIATES**

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

August 3, 2010

Reference No. 311976

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

**RECEIVED**

10:35 am, Aug 04, 2010

**Alameda County  
Environmental Health**

Re: Second Quarter 2010 Groundwater Monitoring and Sampling Report  
Former Chevron Service Station 9-1851  
451 Hegenberger Road  
Oakland, California  
Fuel Leak Case RO0000464

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Dear Mr. Mark Detterman:

Conestoga-Rovers & Associates (CRA) is submitting this *Second Quarter 2010 Groundwater Monitoring and Sampling Report* for the site referenced above (Figure 1) on behalf of Chevron Environmental Management Company (Chevron). On June 10, 2010, groundwater monitoring and sampling was performed by Blaine Tech Services, Inc. of San Jose, California (Blaine Tech). Groundwater potentiometric and concentration data from this event are presented on Figure 2. Groundwater monitoring and sampling data are presented in Table 1. Blaine Tech's June 14, 2010 *Second Quarter 2010 Monitoring* report is included as Attachment A. Lancaster Laboratories' August 2, 2010 *Analytical Results* report is included as Attachment B.

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Equal  
Employment Opportunity  
Employer

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**CONESTOGA-ROVERS  
& ASSOCIATES**

August 3, 2010

Reference No. 311976

- 2 -

Please contact Nathan Lee at (510) 420-3333 or [nlee@croworld.com](mailto:nlee@croworld.com) if you have any questions or require additional information.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Ian Hull

Brandon S. Wilken, PG 7564



IH/doh/7

Encl.

Figure 1	Vicinity Map
Figure 2	Groundwater Elevation and Hydrocarbon Concentration Map
Table 1	Groundwater Monitoring and Sampling Data
Attachment A	Blaine Tech's June 14, 2010 <i>Second Quarter 2010 Monitoring Report</i>
Attachment B	Lancaster Laboratories' August 2, 2010 <i>Analytical Results Report</i>

cc: Mr. Aaron Costa, Chevron  
Simgas LLC, property owner

## FIGURES

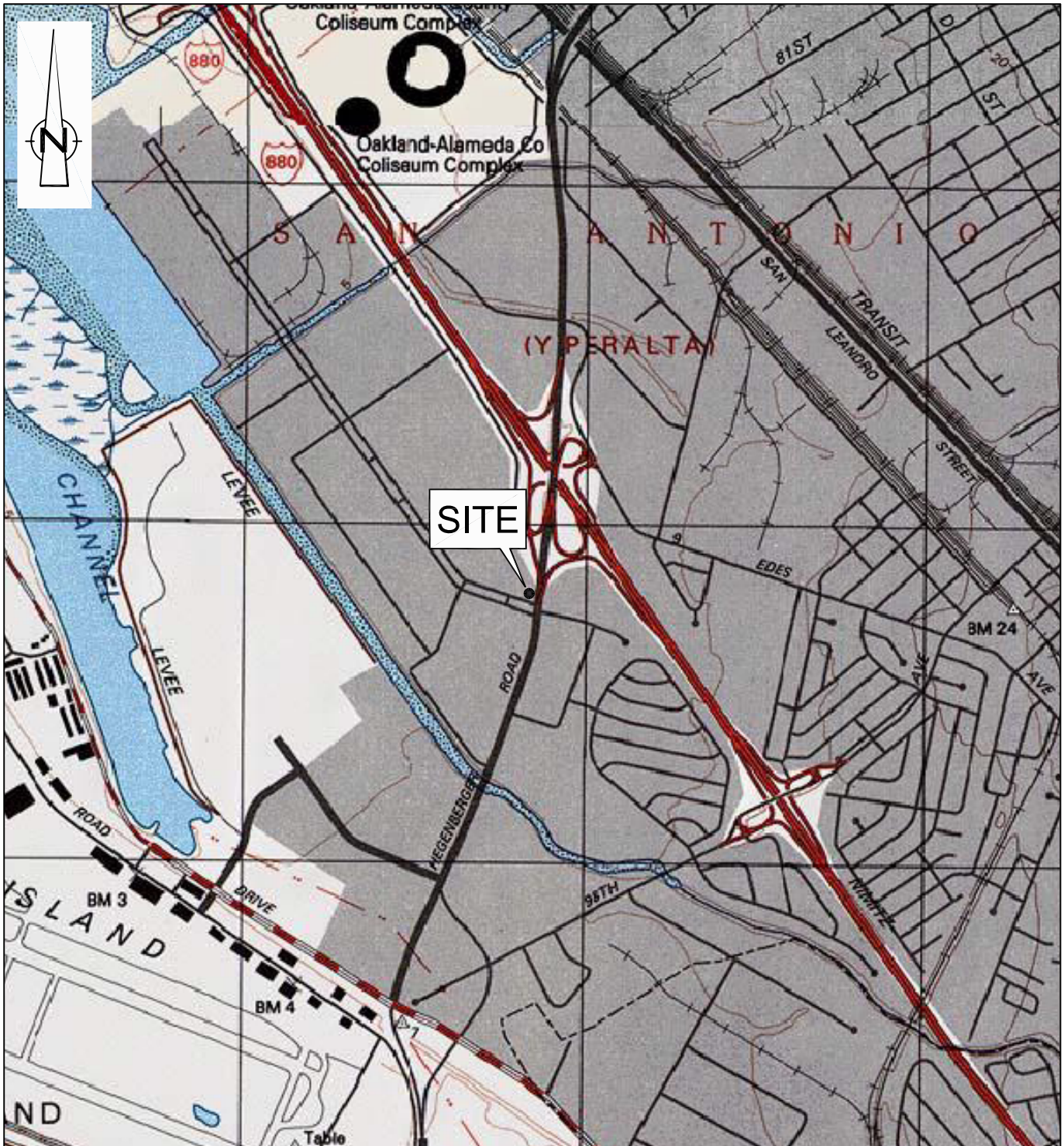
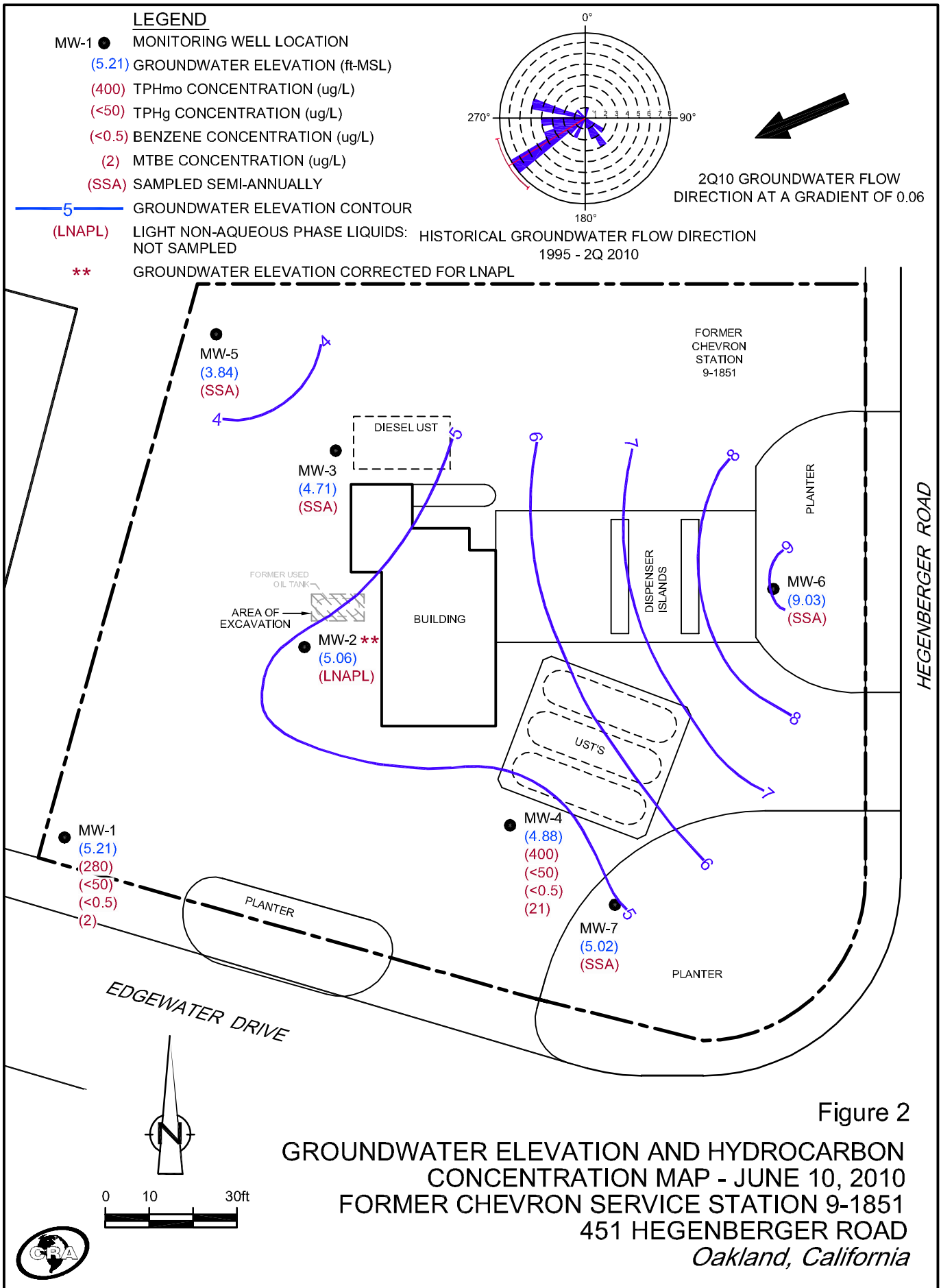


Figure 1  
 VICINITY MAP  
 FORMER CHEVRON SERVICE STATION 9-1851  
 451 HEGENBERGER ROAD  
 Oakland, California







## TABLE

**TABLE 1**  
**GROUNDWATER MONITORING AND SAMPLING DATA**  
**FORMER CHEVRON SERVICE STATION 9-1851**  
**451 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

Location	Date	TOC*	DTW	GWE	LNAPLT	LNAPL REMOVED	HYDROCARBONS			PRIMARY VOCS						ADDITIONAL VOCS					
							TPH <sub>hmo</sub>	TPH-DRO	TPH-GRO	B	T	E	X	MTBE	MTBE by SW8260	Ethanol	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-amsl	ft	gal	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	10/17/1995	2.61	4.12	-1.51	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-1	03/29/1996	2.61	3.33	-0.72	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	9.5	-	-	-	-	-	-	-
MW-1	06/26/1996	2.61	3.84	-1.23	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	46	-	-	-	-	-	-	-
MW-1	09/25/1996	2.61	4.02	-1.41	0.00	0.00	-	-	<250	<2.5	<2.5	<2.5	<2.5	940	-	-	-	-	-	-	-
MW-1	12/17/1996	2.61	3.57	-0.96	0.00	0.00	-	-	<50	0.9	<0.5	<0.5	<0.5	260	-	-	-	-	-	-	-
MW-1	03/20/1997	2.61	4.15	-1.54	0.00	0.00	-	-	<50	<2.0	<2.0	<2.0	<2.0	76	-	-	-	-	-	-	-
MW-1	06/20/1997	2.61	4.33	-1.72	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	64	-	-	-	-	-	-	-
MW-1	09/09/1997	2.61	4.35	-1.74	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	110	-	-	-	-	-	-	-
MW-1	12/12/1997	2.61	3.00	-0.39	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	27	-	-	-	-	-	-	-
MW-1	02/19/1998	2.61	1.83	0.78	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	14	-	-	-	-	-	-	-
MW-1	06/23/1998	2.61	3.34	-0.73	0.00	0.00	-	-	210	<0.5	<0.5	<0.5	<0.5	3400	-	<50000	<10000	<200	<200	<200	<200
MW-1	08/31/1998	2.61	3.49	-0.88	0.00	0.00	-	-	1400	630	<5.0	<5.0	<5.0	16000	-	-	-	-	-	-	-
MW-1	12/29/1998	2.61	3.83	-1.22	0.00	0.00	-	-	<500	<5.0	<5.0	<5.0	<5.0	1090	-	-	-	-	-	-	-
MW-1	03/11/1999	2.61	3.04	-0.43	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	33.9	-	-	-	-	-	-	-
MW-1	06/24/1999	2.61	3.38	-0.77	0.00	0.00	-	-	<500	65.7	<5.0	<5.0	<5.0	1160	-	<10000	<2000	<20	<20	<20	258
MW-1	09/29/1999	2.61	3.62	-1.01	0.00	0.00	-	-	81.7	<0.5	<0.5	<0.5	<0.5	1130	-	-	-	-	-	-	-
MW-1	12/08/1999	2.61	4.07	-1.46	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	233	-	-	-	-	-	-	-
MW-1	03/01/2000	2.61	1.95	0.66	0.00	0.00	-	-	100	<0.5	<0.5	<0.5	<0.5	37.9	-	-	-	-	-	-	-
MW-1	06/19/2000	2.61	3.41	-0.80	0.00	0.00	-	-	<50	3.8	<0.50	<0.50	<0.50	88	91 <sup>2</sup>	<500	<100	<2.0	<2.0	<2.0	11
MW-1	09/30/2000	2.61	3.84	-1.23	0.00	0.00	-	-	<130	<1.3	<1.3	<1.3	<1.3	460	530 <sup>2</sup>	-	-	-	-	-	-
MW-1	10/05/2000	2.61	3.93	-1.32	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	12/08/2000	8.61	4.20	4.41	0.00	0.00	-	-	<50.0	<0.500	<0.500	<0.500	<0.500	58.7	-	-	-	-	-	-	-
MW-1	03/03/2001 <sup>11</sup>	8.61	2.31	6.30	0.00	0.00	-	-	<50	<0.50	<0.50	<0.50	<0.50	8.9	-	-	-	-	-	-	-



**TABLE 1**  
**GROUNDWATER MONITORING AND SAMPLING DATA**  
**FORMER CHEVRON SERVICE STATION 9-1851**  
**451 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

Location	Date	TOC*	DTW	GWE	LNAPLT	LNAPL REMOVED	HYDROCARBONS			PRIMARY VOCS						ADDITIONAL VOCS				
							TPH <sub>hmo</sub>	TPH-DRO	TPH-GRO	B	T	E	X	MTBE	MTBE by SW8260	Ethanol	TBA	DIPE	ETBE	TAME
	Units	ft	ft	ft-amsl	ft	gal	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	06/19/2001	8.61	3.34	5.27	0.00	0.00	-	-	<50	<0.50	<0.50	<0.50	<0.50	51	-	-	-	-	-	-
MW-1	09/05/2001	8.61	3.77	4.84	0.00	0.00	-	-	<50	<0.50	<0.50	<0.50	<1.5	180	-	-	-	-	-	-
MW-1	12/10/2001	8.61	2.47	6.14	0.00	0.00	-	-	<50	<0.50	<0.50	<0.50	<1.5	21	-	-	-	-	-	-
MW-1	03/04/2002	8.61	3.13	5.48	0.00	0.00	-	-	<50	<0.50	<0.50	<0.50	<1.5	47	-	-	-	-	-	-
MW-1	06/03/2002	8.61	5.71	2.90	0.00	0.00	-	-	<50	<0.50	<0.50	<0.50	<1.5	31	-	-	-	-	-	-
MW-1	09/14/2002	8.61	3.75	4.86	0.00	0.00	-	-	<50	<0.50	<0.50	<0.50	<1.5	140	-	-	-	-	-	-
MW-1	12/13/2002	8.61	3.29	5.32	0.00	0.00	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-
MW-1	03/14/2003	8.61	3.07	5.54	0.00	0.00	-	-	<50	<0.50	<0.50	<0.50	<1.5	35	-	-	-	-	-	-
MW-1	06/09/2003	8.61	3.52	5.09	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	69	-	-	-	-	-
MW-1	09/03/2003	8.61	4.12	4.49	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	1	<50	-	-	-	-
MW-1	12/01/2003	8.61	3.27	5.34	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	100	<50	-	-	-	-
MW-1	03/01/2004	8.61	2.06	6.55	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	26	<50	-	-	-	-
MW-1	06/02/2004	8.61	3.30	5.31	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	93	<50	-	-	-	-
MW-1	09/03/2004	8.61	4.14	4.47	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	140	<50	-	-	-	-
MW-1	12/20/2004	8.61	3.62	4.99	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	37	<50	-	-	-	-
MW-1	03/12/2005	8.61	3.04	5.57	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	130	<50	-	-	-	-
MW-1	06/28/2005	8.61	3.28	5.33	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	93	<50	-	-	-	-
MW-1	09/01/2005	8.61	3.58	5.03	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	59	<50	-	-	-	-
MW-1	12/01/2005	8.61	3.05	5.56	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	62	<50	-	-	-	-
MW-1	03/04/2006	8.61	3.31	5.30	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	88	<50	-	-	-	-
MW-1	06/01/2006	8.61	3.44	5.17	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	36	<50	-	-	-	-
MW-1	09/01/2006	8.61	2.99	5.62	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	18	<50	-	-	-	-
MW-1	12/15/2006	8.61	2.91	5.70	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	8	<50	-	-	-	-

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**FORMER CHEVRON SERVICE STATION 9-1851**  
**451 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

Location	Date	TOC*	DTW	GWE	LNAPLT	LNAPL REMOVED	HYDROCARBONS			PRIMARY VOCS						ADDITIONAL VOCS				
							TPH <sub>hmo</sub>	TPH-DRO	TPH-GRO	B	T	E	X	MTBE	MTBE by SW8260	Ethanol	TBA	DIPE	ETBE	TAME
	Units	ft	ft	ft-amsl	ft	gal	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	03/15/2007	8.61	3.43	5.18	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	17	<50	-	-	-	-
MW-1	06/15/2007	8.61	3.67	4.94	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	8	<50	-	-	-	-
MW-1	09/06/2007	8.61	3.42	5.19	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	3	<50	-	-	-	-
MW-1	12/07/2007	8.61	3.31	5.30	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	7	<50	-	-	-	-
MW-1	03/07/2008	8.61	3.45	5.16	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	9	<50	-	-	-	-
MW-1	06/24/2008	8.61	3.76	4.85	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	3	<50	-	-	-	-
MW-1	09/11/2008	8.61	4.50	4.11	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	9	-	-	-	-	-
MW-1	12/19/2008	8.61	3.73	4.88	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	6	<50	-	-	-	-
MW-1	03/31/2009	8.61	3.72	4.89	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	5	<50	-	-	-	-
MW-1	06/01/2009	8.61	3.84	4.77	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	3	<50	-	-	-	-
MW-1	09/30/2009	8.61	3.80	4.81	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	1	<50	-	-	-	-
MW-1	12/10-11/2009	8.61	3.81	4.80	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	4	<50	-	-	-	-
MW-1	03/08/2010	8.61	2.90	5.71	0.00	0.00	-	-	<500	<0.5	<0.5	<0.5	<0.5	-	4	<50	-	-	-	-
<b>MW-1</b>	<b>06/10/2010<sup>25</sup></b>	<b>8.61</b>	<b>3.40</b>	<b>5.21</b>	<b>0.00</b>	<b>0.00</b>	<b>280</b>	<b>-</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>-</b>	<b>2</b>	<b>&lt;50</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
MW-2	10/17/1995 <sup>3</sup>	3.51	5.33	-1.82	0.00	0.00	-	1600 <sup>4</sup>	170	3.5	<0.5	1.0	6.1	-	-	-	-	-	-	-
MW-2	03/29/1996	3.51	3.95	-0.44	0.00	0.00	-	3000 <sup>4</sup>	89	11 / 4.7	<0.5	0.64	0.74 / 2.5	21	-	-	-	-	-	-
MW-2	06/26/1996	3.51	4.60	-1.09	0.00	0.00	-	2000 <sup>4</sup>	80	11 / 8.7	<0.5	1.2	<2.0 / 1.3	31	-	-	-	-	-	-
MW-2	09/25/1996 <sup>24</sup>	3.51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	12/17/1996	3.51	3.92	-0.41	0.00	0.00	-	2400 <sup>4</sup>	110	10 / <0.5	<0.5	0.75	2.1 / <2.0	27	-	-	-	-	-	-
MW-2	03/20/1997	3.51	4.83	-1.32	0.00	0.00	-	3400 <sup>4</sup>	140	8.2	<2.0	<2.0	<2.0	58	-	-	-	-	-	-
MW-2	06/20/1997	3.51	5.04	-1.53	0.00	0.00	-	1600 <sup>4</sup>	62	7.2 / 7.7	<0.5	<0.5	<0.5 / <2.0	38	-	-	-	-	-	-
MW-2	09/09/1997	3.51	4.98	-1.47	0.00	0.00	-	82 <sup>4</sup>	190	11 / 9.4	<0.5	<0.5	<2.0 / 0.86	48	-	-	-	-	-	-

**TABLE 1**  
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**FORMER CHEVRON SERVICE STATION 9-1851**  
**451 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

Location	Date	TOC*	DTW	GWE	LNAPLT	LNAPL REMOVED	HYDROCARBONS			PRIMARY VOCS						ADDITIONAL VOCS				
							TPH <sub>hmo</sub>	TPH-DRO	TPH-GRO	B	T	E	X	MTBE	MTBE by SW8260	Ethanol	TBA	DIPE	ETBE	TAME
	Units	ft	ft	ft-amsl	ft	gal	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	12/12/1997	3.51	3.91	-0.40	0.00	0.00	-	8500 <sup>4</sup>	180	1.8 / <2.0	<0.5	<0.5	<2.0 / 3.2	34	-	-	-	-	-	-
MW-2	02/19/1998	3.51	2.96	0.55	0.00	0.00	-	3800 <sup>4</sup>	<100	1.8 / <3.3	<1.0	<1.0	<3.3 / <1.0	230	-	-	-	-	-	-
MW-2	06/23/1998	3.51	4.05	-0.54	0.00	0.00	-	-	60	<0.5	<0.5	<0.5	<0.5	55	-	<500	<100	<2.0	<2.0	<2.0
MW-2	08/31/1998	3.51	4.31	-0.80	0.00	0.00	-	-	61	2.2	<0.5	<0.5	1.1	53	-	-	-	-	-	-
MW-2	12/29/1998	3.51	4.63	-1.12	0.00	0.00	-	-	54	1.3	<0.5	<0.5	0.752	38.1	-	-	-	-	-	-
MW-2	03/11/1999	3.51	3.52	-0.01	0.00	0.00	-	-	648	2.9	<2.0	<2.0	<2.0	73.2	-	-	-	-	-	-
MW-2	06/24/1999	3.51	4.00	-0.49	0.00	0.00	-	-	264	0.58	<0.5	1.01	<0.5	44.1	-	<1000	<200	<2.0	<2.0	<2.0
MW-2	09/29/1999	3.51	4.44	-0.93	0.00	0.00	-	-	54.3	0.66	<0.5	<0.5	<0.5	35.7	-	-	-	-	-	-
MW-2	12/08/1999	3.51	4.89	-1.38	0.00	0.00	-	-	<50	1.27	<0.5	<0.5	<0.5	56.9	-	-	-	-	-	-
MW-2	03/01/2000	3.51	3.03	0.48	0.00	0.00	-	-	68	1.57	<0.5	<0.5	<0.5	110	-	-	-	-	-	-
MW-2	06/19/2000	3.51	4.17	-0.66	0.00	0.00	-	-	58.00 <sup>1</sup>	1.5	<0.50	<0.50	<0.50	90	59 <sup>2</sup>	<500	<100	<2.0	<2.0	4.0
MW-2	09/30/2000	3.51	4.66	-1.15	0.00	0.00	-	-	<50	<0.50	0.82	<0.50	1.1	48	50 <sup>2</sup>	-	-	-	-	-
MW-2	10/05/2000 <sup>8,9</sup>	3.51	4.71	-1.20	0.00	0.00	-	4000 <sup>7</sup>	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	12/08/2000	9.52	4.97	4.55	0.00	0.00	-	-	<50.0	<0.500	<0.500	<0.500	<0.500	61.8	-	-	-	-	-	-
MW-2	03/03/2001 <sup>11</sup>	9.52	3.27	6.25	0.00	0.00	-	-	310 <sup>12</sup>	0.60	<0.50	<0.50	1.3	97	-	-	-	-	-	-
MW-2	06/19/2001	9.52	4.05	5.47	0.00	0.00	-	-	<50	<0.50	<0.50	<0.50	<0.50	30	-	-	-	-	-	-
MW-2	09/05/2001	9.52	4.54	4.98	0.00	0.00	-	-	<50	<0.50	1.2	<0.50	<1.5	46	-	-	-	-	-	-
MW-2	12/10/2001	9.52	3.45	6.07	0.00	0.00	-	-	<50	<0.50	<0.50	<0.50	<1.5	22	-	-	-	-	-	-
MW-2	03/04/2002	9.52	3.94	5.58	0.00	0.00	-	-	<50	<0.50	<0.50	<0.50	<1.5	61	-	-	-	-	-	-
MW-2	06/03/2002	9.52	4.08	5.44	0.00	0.00	-	-	<50	<0.50	<0.50	<0.50	<1.5	71	-	-	-	-	-	-
MW-2	09/14/2002	9.52	4.65	4.87	0.00	0.00	-	-	<50	<0.50	<0.50	<0.50	<1.5	77	-	-	-	-	-	-
MW-2	12/13/2002	9.52	4.31	5.21	0.00	0.00	-	-	53	<0.50	<0.50	<0.50	<1.5	44	-	-	-	-	-	-
MW-2	03/14/2003	9.52	3.91	5.61	0.00	0.00	-	-	<50	<0.50	<0.50	<0.50	<1.5	55	-	-	-	-	-	-

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**GROUNDWATER MONITORING AND SAMPLING DATA**  
**FORMER CHEVRON SERVICE STATION 9-1851**  
**451 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

Location	Date	TOC*	DTW	GWE	LNAPLT	LNAPL REMOVED	HYDROCARBONS			PRIMARY VOCS						ADDITIONAL VOCS				
							TPH <sub>hmo</sub>	TPH-DRO	TPH-GRO	B	T	E	X	MTBE	MTBE by SW8260	Ethanol	TBA	DIPE	ETBE	TAME
	Units	ft	ft	ft-amsl	ft	gal	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-2	06/09/2003	9.52	4.33	5.19	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	67	-	-	-	-	-
MW-2	09/03/2003	9.52	4.93	4.59	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	0.9	<50	-	-	-	-
MW-2	12/01/2003	9.52	4.15	5.37	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	72	<50	-	-	-	-
MW-2	03/01/2004	9.52	3.12	6.40	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	130	<50	-	-	-	-
MW-2	06/02/2004	9.52	4.21	5.31	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	46	<50	-	-	-	-
MW-2	09/03/2004	9.52	4.14	5.38	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	69	<50	-	-	-	-
MW-2	12/20/2004 <sup>22</sup>	9.52	4.60	4.96**	0.05	0.01 <sup>14</sup>	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	03/12/2005	9.52	3.90	5.62	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	57	<50	-	-	-	-
MW-2	06/28/2005	9.52	4.06	5.46	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	6	<50	-	-	-	-
MW-2	09/01/2005 <sup>22</sup>	9.52	4.52	5.03**	0.04	1.10 <sup>14</sup>	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	12/01/2005	9.52	4.01	5.51	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	3	<50	-	-	-	-
MW-2	03/04/2006	9.52	4.27	5.25	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	14	<50	-	-	-	-
MW-2	06/01/2006	9.52	4.40	5.12	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	35	<50	-	-	-	-
MW-2	09/01/2006	9.52	3.90	5.62	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	31	<50	-	-	-	-
MW-2	12/15/2006	9.52	3.88	5.64	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	25	<50	-	-	-	-
MW-2	03/15/2007	9.52	4.27	5.25	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	15	<50	-	-	-	-
MW-2	06/15/2007 <sup>16,22</sup>	9.52	4.49	5.03**	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	09/06/2007	9.52	4.32	5.20	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	43	<50	-	-	-	-
MW-2	12/07/2007	9.52	4.46	5.06	0.00	0.00	-	-	<250 <sup>17</sup>	<0.5	<0.5	<0.5	<0.5	-	28	<50	-	-	-	-
MW-2	03/07/2008	9.52	4.38	5.15**	0.01	0.01	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	19	<50	-	-	-	-
MW-2	06/24/2008 <sup>22</sup>	9.52	5.16	4.88**	0.65	0.73 <sup>14</sup>	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	09/11/2008 <sup>22</sup>	9.52	5.50	4.30**	0.35	0.13 <sup>14</sup>	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	12/19/2008 <sup>22</sup>	9.52	4.80	4.75**	0.04	0.50 <sup>18</sup>	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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**FORMER CHEVRON SERVICE STATION 9-1851**  
**451 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

Location	Date	TOC*	DTW	GWE	LNAPLT	LNAPL REMOVED	HYDROCARBONS			PRIMARY VOCS						ADDITIONAL VOCS					
							TPH <sub>hmo</sub>	TPH-DRO	TPH-GRO	B	T	E	X	MTBE	MTBE by SW8260	Ethanol	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-amsl	ft	gal	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	03/31/2009	9.52	4.45	5.07	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	46	<50	-	-	-	-	-
MW-2	06/01/2009 <sup>22</sup>	9.52	4.62	4.92**	0.03	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	09/30/2009 <sup>22</sup>	9.52	4.70	4.89**	0.09	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	12/10-11/2009 <sup>22</sup>	9.52	4.89	4.71**	0.10	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	03/08/2010 <sup>22</sup>	9.52	3.82	5.74**	0.05	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>MW-2</b>	<b>06/10/2010<sup>22</sup></b>	<b>9.52</b>	<b>4.52</b>	<b>5.06**</b>	<b>0.07</b>	<b>0.00</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	10/17/1995 <sup>5</sup>	3.08	4.42	-1.34	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
MW-3	03/29/1996	3.08	3.00	0.08	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	26	-	-	-	-	-	-	-
MW-3	06/26/1996	3.08	3.60	-0.52	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	47	-	-	-	-	-	-	-
MW-3	09/25/1996	3.08	4.14	-1.06	0.00	0.00	-	-	<125	<1.2	<1.2	<1.2	<1.2	570	-	-	-	-	-	-	-
MW-3	12/17/1996	3.08	3.20	-0.12	0.00	0.00	-	-	<500	<5.0	<5.0	<5.0	<5.0	680	-	-	-	-	-	-	-
MW-3	03/20/1997	3.08	3.30	-0.22	0.00	0.00	-	-	<50	<5.7	<5.7	<5.7	<5.7	430	-	-	-	-	-	-	-
MW-3	06/20/1997	3.08	3.86	-0.78	0.00	0.00	-	-	<500	<5.0	<5.0	<5.0	<5.0	1400	-	-	-	-	-	-	-
MW-3	09/09/1997	3.08	4.19	-1.11	0.00	0.00	-	-	76 <sup>4</sup>	22	<0.5	<0.5	<0.5	920	-	-	-	-	-	-	-
MW-3	12/12/1997	3.08	2.96	0.12	0.00	0.00	-	-	52	15	<0.5	<0.5	<0.5	710	-	-	-	-	-	-	-
MW-3	02/19/1998	3.08	2.22	0.86	0.00	0.00	-	-	<50	6.6	<0.5	<0.5	<0.5	380	-	-	-	-	-	-	-
MW-3	06/23/1998	3.08	3.25	-0.17	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	390	-	<5000	<1000	<20	<20	26	
MW-3	08/31/1998	3.08	3.86	-0.78	0.00	0.00	-	-	<50	19	<0.5	<0.5	<0.5	830	-	-	-	-	-	-	
MW-3	12/29/1998	3.08	3.53	-0.45	0.00	0.00	-	-	<250	<2.5	<2.5	<2.5	<2.5	416	-	-	-	-	-	-	
MW-3	03/11/1999	3.08	3.35	-0.27	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	262	-	-	-	-	-	-	
MW-3	06/24/1999	3.08	3.61	-0.53	0.00	0.00	-	-	<50	12.8	<0.5	<0.5	<0.5	620	-	<6670	<1330	<13.3	<13.3	<13.3	
MW-3	09/29/1999	3.08	3.95	-0.87	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	2840	-	-	-	-	-	-	

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**451 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

Location	Date	TOC*	DTW	GWE	LNAPLT	LNAPL REMOVED	HYDROCARBONS			PRIMARY VOCS						ADDITIONAL VOCS				
							TPH <sub>inc</sub>	TPH-DRO	TPH-GRO	B	T	E	X	MTBE	MTBE by SW8260	Ethanol	TBA	DIPE	ETBE	TAME
	Units	ft	ft	ft-amsl	ft	gal	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	12/08/1999	3.08	3.54	-0.46	0.00	0.00	-	-	73.4	<0.5	<0.5	<0.5	<0.5	1620	-	-	-	-	-	-
MW-3	03/01/2000	3.08	2.43	0.65	0.00	0.00	-	-	<200	<2.0	<2.0	<2.0	<2.0	1880	-	-	-	-	-	-
MW-3	06/19/2000	3.08	3.38	-0.30	0.00	0.00	-	-	<250	20	<2.5	<2.5	<2.5	1200	920 <sup>2</sup>	570	<100	<2.0	<2.0	65
MW-3	09/30/2000	3.08	4.00	-0.92	0.00	0.00	-	-	<250	<2.5	<2.5	<2.5	<2.5	730	2100 <sup>2</sup>	-	-	-	-	-
MW-3	10/05/2000	3.08	4.02	-0.94	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	12/08/2000	9.08	3.70	5.38	0.00	0.00	-	-	<50.0	<0.500	<0.500	<0.500	<0.500	1620	-	-	-	-	-	-
MW-3	03/03/2001 <sup>11</sup>	9.08	2.24	6.84	0.00	0.00	-	-	<50	<0.50	<0.50	<0.50	<0.50	1000	-	-	-	-	-	-
MW-3	06/19/2001	9.08	3.71	5.37	0.00	0.00	-	-	<120	4.8	<1.2	<1.2	<1.2	510	-	-	-	-	-	-
MW-3	09/05/2001	9.08	4.04	5.04	0.00	0.00	-	-	130	<0.50	<0.50	<0.50	<1.5	1400	-	-	-	-	-	-
MW-3	12/10/2001	9.08	2.54	6.54	0.00	0.00	-	-	130	<0.50	<0.50	<0.50	<1.5	1000	-	-	-	-	-	-
MW-3	03/04/2002	9.08	2.84	6.24	0.00	0.00	-	-	120	<0.50	<0.50	<0.50	<1.5	720	-	-	-	-	-	-
MW-3	06/03/2002	9.08	3.28	5.80	0.00	0.00	-	-	130	<0.50	<0.50	<0.50	<1.5	710	-	-	-	-	-	-
MW-3	09/14/2002	9.08	4.15	4.93	0.00	0.00	-	-	590	<20	<1.0	<1.0	<3.0	2600	-	-	-	-	-	-
MW-3	12/13/2002	9.08	3.85	5.23	0.00	0.00	-	-	430	<0.50	<0.50	<0.50	<1.5	2000	-	-	-	-	-	-
MW-3	03/14/2003	9.08	2.99	6.09	0.00	0.00	-	-	310	<0.50	<0.50	<0.50	<1.5	1600	-	-	-	-	-	-
MW-3	06/09/2003	9.08	3.34	5.74	0.00	0.00	-	-	330	<0.5	<0.5	<0.5	<0.5	-	1800	-	-	-	-	-
MW-3	09/03/2003	9.08	3.97	5.11	0.00	0.00	-	-	720	<3	<3	<3	<3	-	4100	<250	-	-	-	-
MW-3	12/01/2003	9.08	3.76	5.32	0.00	0.00	-	-	520	<1	<1	<1	<1	-	2400	<130	-	-	-	-
MW-3	03/01/2004	9.08	2.11	6.97	0.00	0.00	-	-	140	<0.5	<0.5	<0.5	<0.5	-	850	<50	-	-	-	-
MW-3	06/02/2004	9.08	3.65	5.43	0.00	0.00	-	-	220	<0.5	<0.5	<0.5	<0.5	-	1500	<50	-	-	-	-
MW-3	09/03/2004	9.08	5.01	4.07	0.00	0.00	-	-	300	<1	<1	<1	<1	-	1800	<100	-	-	-	-
MW-3	12/20/2004	9.08	4.85	4.23	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	86	<50	-	-	-	-
MW-3	03/12/2005	9.08	4.39	4.69	0.00	0.00	-	-	<50	0.6	<0.5	<0.5	<0.5	-	110	<50	-	-	-	-

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Location	Date	TOC*	DTW	GWE	LNAPLT	LNAPL REMOVED	HYDROCARBONS			PRIMARY VOCS						ADDITIONAL VOCS				
							TPH <sub>hmo</sub>	TPH-DRO	TPH-GRO	B	T	E	X	MTBE	MTBE by SW8260	Ethanol	TBA	DIPE	ETBE	TAME
	Units	ft	ft	ft-amsl	ft	gal	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-3	06/28/2005	9.08	4.56	4.52	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	23	<50	-	-	-	-
MW-3	09/01/2005	9.08	4.67	4.41	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	47	<50	-	-	-	-
MW-3	12/01/2005	9.08	4.43	4.65	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	19	<50	-	-	-	-
MW-3	03/04/2006	9.08	4.32	4.76	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	36	<50	-	-	-	-
MW-3	06/01/2006	9.08	4.52	4.56	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	29	<50	-	-	-	-
MW-3	09/01/2006	9.08	4.66	4.42	0.00	0.00	-	-	75	<0.5	<0.5	<0.5	<0.5	-	29	<50	-	-	-	-
MW-3	12/15/2006	9.08	4.07	5.01	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	14	<50	-	-	-	-
MW-3	03/15/2007	9.08	4.26	4.82	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	24	<50	-	-	-	-
MW-3	06/15/2007	9.08	4.62	4.46	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	18	<50	-	-	-	-
MW-3	09/06/2007	9.08	4.70	4.38	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	14	<50	-	-	-	-
MW-3	12/07/2007	9.08	4.60	4.48	0.00	0.00	-	-	<250 <sup>17</sup>	<0.5	<0.5	<0.5	<0.5	-	16	<50	-	-	-	-
MW-3	03/07/2008	9.08	4.31	4.77	0.00	0.00	-	-	51	<0.5	<0.5	<0.5	<0.5	-	20	<50	-	-	-	-
MW-3	06/24/2008	9.08	4.68	4.40	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	21	<50	-	-	-	-
MW-3	09/11/2008	9.08	5.02	4.06	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	29	<50	-	-	-	-
MW-3	12/19/2008	9.08	4.67	4.41	0.00	0.00	-	-	59	<0.5	<0.5	<0.5	0.9	-	21	<50	-	-	-	-
MW-3	03/31/2009	9.08	4.25	4.83	0.00	0.00	-	-	79	<0.5	<0.5	<0.5	<0.5	-	25	<50	-	-	-	-
MW-3	06/01/2009	9.08	4.60	4.48	0.00	0.00	-	-	60 J	<0.5	<0.5	<0.5	<0.5	-	23	<50	-	-	-	-
MW-3	09/30/2009	9.08	5.10	3.98	0.00	0.00	-	-	72 J	<0.5	<0.5	<0.5	<0.5	-	25	<50	-	-	-	-
MW-3	12/10-11/2009 <sup>23</sup>	9.08	4.60	4.13	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	03/08/2010	9.08	3.70	5.38	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	32	<50	-	-	-	-
<b>MW-3</b>	<b>06/10/2010<sup>23</sup></b>	<b>9.08</b>	<b>4.37</b>	<b>4.71</b>	<b>0.00</b>	<b>0.00</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	10/17/1995	3.48	5.08	-1.60	0.00	0.00	-	-	<125	<1.2	<1.2	<1.2	<1.2	-	-	-	-	-	-	-



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**GROUNDWATER MONITORING AND SAMPLING DATA**  
**FORMER CHEVRON SERVICE STATION 9-1851**  
**451 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

Location	Date	TOC*	DTW	GWE	LNAPLT	LNAPL REMOVED	HYDROCARBONS			PRIMARY VOCS						ADDITIONAL VOCS					
							TPH <sub>hmo</sub>	TPH-DRO	TPH-GRO	B	T	E	X	MTBE	MTBE by SW8260	Ethanol	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-amsl	ft	gal	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	03/29/1996	3.48	4.61	-1.13	0.00	0.00	-	-	<1000	<10	<10	<10	<10	6700	-	-	-	-	-	-	-
MW-4	06/26/1996	3.48	4.30	-0.82	0.00	0.00	-	-	<2000	<20	<20	<20	<20	7200	-	-	-	-	-	-	-
MW-4	09/25/1996	3.48	5.33	-1.85	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-
MW-4	12/17/1996	3.48	2.81	0.67	0.00	0.00	-	-	<2000	120	<20	<20	<20	11000	-	-	-	-	-	-	-
MW-4	03/20/1997	3.48	4.50	-1.02	0.00	0.00	-	-	250 <sup>4</sup>	<2.0	<2.0	<2.0	<2.0	10000	8600 <sup>6</sup>	-	-	-	-	-	-
MW-4	06/20/1997	3.48	5.68	-2.20	0.00	0.00	-	-	<2500	<25	<25	<25	<25	9300	-	-	-	-	-	-	-
MW-4	09/09/1997	3.48	5.50	-2.02	0.00	0.00	-	-	460 <sup>4</sup>	<0.5	<0.5	<0.5	<0.5	6600	-	-	-	-	-	-	-
MW-4	12/12/1997	3.48	5.03	-1.55	0.00	0.00	-	-	430 <sup>4</sup>	120	<2.5	<2.5	<2.5	7800	-	-	-	-	-	-	-
MW-4	02/19/1998	3.48	3.35	0.13	0.00	0.00	-	-	510 <sup>4</sup>	130	<0.5	<0.5	<0.5	6600	-	-	-	-	-	-	-
MW-4	06/23/1998	3.48	4.98	-1.50	0.00	0.00	-	-	550 <sup>4</sup>	<0.5	<0.5	<0.5	<0.5	6800	-	<50000	<10000	<200	<200	860	-
MW-4	08/31/1998	3.48	5.42	-1.94	0.00	0.00	-	-	<500	450	<5.0	<5.0	<5.0	14000	-	-	-	-	-	-	-
MW-4	12/29/1998	3.48	5.06	-1.58	0.00	0.00	-	-	<5000	<50	<50	<50	<50	16100	-	-	-	-	-	-	-
MW-4	03/11/1999	3.48	3.78	-0.30	0.00	0.00	-	-	979	<5.0	<5.0	<5.0	<5.0	15100	-	-	-	-	-	-	-
MW-4	06/24/1999	3.48	4.31	-0.83	0.00	0.00	-	-	<2500	715	<25	<25	<25	12400	-	<125000	<25000	<250	<250	2600	-
MW-4	09/29/1999	3.48	5.58	-2.10	0.00	0.00	-	-	1380	<5.0	<5.0	<5.0	<5.0	11700	-	-	-	-	-	-	-
MW-4	12/08/1999	3.48	5.33	-1.85	0.00	0.00	-	-	318	<0.5	<0.5	<0.5	<0.5	11100	-	-	-	-	-	-	-
MW-4	03/01/2000	3.48	5.20	-1.72	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	9940	-	-	-	-	-	-	-
MW-4	06/19/2000	3.48	5.36	-1.88	0.00	0.00	-	-	<1000	220	<10	<10	<10	7300	9500 <sup>2</sup>	<25000	<5000	<100	<100	1100	-
MW-4	09/30/2000	3.48	3.77	-0.29	0.00	0.00	-	-	740 <sup>1</sup>	<2.5	<2.5	<2.5	<2.5	6000	7800 <sup>2</sup>	-	-	-	-	-	-
MW-4	10/05/2000	3.48	3.86	-0.38	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	12/08/2000	9.48	4.45	5.03	0.00	0.00	-	-	<50.0	<0.500	<0.500	<0.500	<0.500	6230	-	-	-	-	-	-	-
MW-4	03/03/2001 <sup>11</sup>	9.48	3.83	5.65	0.00	0.00	-	-	<250	<2.5	<2.5	<2.5	<2.5	3600	-	-	-	-	-	-	-
MW-4	06/19/2001	9.48	3.37	6.11	0.00	0.00	-	-	<500	140	<5.0	<5.0	<5.0	2500	-	-	-	-	-	-	-

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GROUNDWATER MONITORING AND SAMPLING DATA  
FORMER CHEVRON SERVICE STATION 9-1851  
451 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

Location	Date	TOC*	DTW	GWE	LNAPLT	LNAPL REMOVED	HYDROCARBONS			PRIMARY VOCS						ADDITIONAL VOCS					
							TPH <sub>hmo</sub>	TPH-DRO	TPH-GRO	B	T	E	X	MTBE	MTBE by SW8260	Ethanol	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-amsl	ft	gal	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	09/05/2001	9.48	3.96	5.52	0.00	0.00	-	-	400	<0.50	<0.50	<0.50	<1.5	2800	-	-	-	-	-	-	-
MW-4	12/10/2001	9.48	5.05	4.43	0.00	0.00	-	-	700	<0.50	<0.50	<0.50	<1.5	3400	-	-	-	-	-	-	-
MW-4	03/04/2002	9.48	3.67	5.81	0.00	0.00	-	-	660	<0.50	<0.50	<0.50	<1.5	2900	-	-	-	-	-	-	-
MW-4	06/03/2002	9.48	5.24	4.24	0.00	0.00	-	-	610	<0.50	<0.50	<0.50	<1.5	3000	-	-	-	-	-	-	-
MW-4	09/14/2002	9.48	5.22	4.26	0.00	0.00	-	-	490	<10	<1.0	<1.0	<3.0	2400	-	-	-	-	-	-	-
MW-4	12/13/2002	9.48	4.67	4.81	0.00	0.00	-	-	440	<0.50	<0.50	<0.50	<1.5	2200	-	-	-	-	-	-	-
MW-4	03/14/2003	9.48	4.64	4.84	0.00	0.00	-	-	490	<0.50	<0.50	<0.50	<1.5	2600	-	-	-	-	-	-	-
MW-4	06/09/2003	9.48	5.03	4.45	0.00	0.00	-	-	340	<0.5	<0.5	<0.5	<0.5	-	1700	-	-	-	-	-	-
MW-4	09/03/2003	9.48	5.65	3.83	0.00	0.00	-	-	320	<1	<1	<1	<1	-	1600	<130	-	-	-	-	-
MW-4	12/01/2003	9.48	4.97	4.51	0.00	0.00	-	-	350	<1	<1	<1	<1	-	1700	<100	-	-	-	-	-
MW-4	03/01/2004	9.48	4.68	4.80	0.00	0.00	-	-	240	<0.5	<0.5	<0.5	<0.5	-	1200	<50	-	-	-	-	-
MW-4	06/02/2004	9.48	4.93	4.55	0.00	0.00	-	-	240	<0.5	<0.5	<0.5	<0.5	-	1600	<50	-	-	-	-	-
MW-4	09/03/2004	9.48	4.99	4.49	0.00	0.00	-	-	270	<1	<1	<1	<1	-	1500	<100	-	-	-	-	-
MW-4	12/20/2004	9.48	4.18	5.30	0.00	0.00	-	-	230	<3	<3	<3	<3	-	1900	<250	-	-	-	-	-
MW-4	03/12/2005	9.48	5.32	4.16	0.00	0.00	-	-	180	<1	<1	<1	<1	-	1200	<100	-	-	-	-	-
MW-4	06/28/2005	9.48	5.26	4.22	0.00	0.00	-	-	180	<0.5	<0.5	<0.5	<0.5	-	920	<50	-	-	-	-	-
MW-4	09/01/2005	9.48	4.91	4.57	0.00	0.00	-	-	250	<1	<1	<1	<1	-	1500	<100	-	-	-	-	-
MW-4	12/01/2005	9.48	4.88	4.60	0.00	0.00	-	-	61	<0.5	<0.5	<0.5	<0.5	-	260	<50	-	-	-	-	-
MW-4	03/04/2006	9.48	5.02	4.46	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	80	<50	-	-	-	-	-
MW-4	06/01/2006	9.48	4.23	5.25	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	51	<50	-	-	-	-	-
MW-4	09/01/2006	9.48	5.36	4.12	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	29	<50	-	-	-	-	-
MW-4	12/15/2006	9.48	4.94	4.54	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	19	<50	-	-	-	-	-
MW-4	03/15/2007	9.48	5.02	4.46	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	18	<50	-	-	-	-	-

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**FORMER CHEVRON SERVICE STATION 9-1851**  
**451 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

Location	Date	TOC*	DTW	GWE	LNAPLT	LNAPL REMOVED	HYDROCARBONS			PRIMARY VOCS						ADDITIONAL VOCS				
							TPH <sub>hmo</sub>	TPH-DRO	TPH-GRO	B	T	E	X	MTBE	MTBE by SW8260	Ethanol	TBA	DIPE	ETBE	TAME
	Units	ft	ft	ft-amsl	ft	gal	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	06/15/2007	9.48	5.00	4.48	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	16	<50	-	-	-	-
MW-4	09/06/2007	9.48	4.97	4.51	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	9	<50	-	-	-	-
MW-4	12/07/2007	9.48	4.51	4.97	0.00	0.00	-	-	<250 <sup>17</sup>	<0.5	<0.5	<0.5	<0.5	-	15	<50	-	-	-	-
MW-4	03/07/2008	9.48	4.85	4.63	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	15	<50	-	-	-	-
MW-4	06/24/2008	9.48	3.73	5.75	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	15	<50	-	-	-	-
MW-4	09/11/2008	9.48	5.71	3.77	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	34	<50	-	-	-	-
MW-4	12/19/2008	9.48	4.89	4.59	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	33	<50	-	-	-	-
MW-4	03/31/2009	9.48	5.19	4.29	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	21	<50	-	-	-	-
MW-4	06/01/2009	9.48	5.03	4.45	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	23	<50	-	-	-	-
MW-4	09/30/2009	9.48	5.11	4.37	0.00	0.00	-	-	<500	<0.5	<0.5	<0.5	<0.5	-	22	<50	-	-	-	-
MW-4	12/10-11/2009	9.48	9.04	0.44	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	33	<50	-	-	-	-
MW-4	03/08/2010	9.48	4.93	4.55	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	30	<50	-	-	-	-
<b>MW-4</b>	<b>06/10/2010<sup>25</sup></b>	<b>9.48</b>	<b>4.60</b>	<b>4.88</b>	<b>0.00</b>	<b>0.00</b>	<b>400</b>	<b>-</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>-</b>	<b>21</b>	<b>&lt;50</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
MW-5	10/23/2000 <sup>10</sup>	8.77	4.59	4.18	0.00	0.00	-	-	<50	<0.500	<0.500	<0.500	<0.500	4.34	-	<1000	<100	<2.00	<2.00	<2.00
MW-5	12/08/2000	8.77	3.43	5.34	0.00	0.00	-	-	<50.0	<0.500	<0.500	<0.500	<0.500	11.0	-	-	-	-	-	-
MW-5	03/03/2001 <sup>11</sup>	8.77	2.40	6.37	0.00	0.00	-	-	<50	<0.50	<0.50	<0.50	<0.50	24	-	-	-	-	-	-
MW-5	06/19/2001 <sup>24</sup>	8.77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	09/05/2001	8.77	3.75	5.02	0.00	0.00	-	-	<50	<0.50	<0.50	<0.50	<1.5	31	-	-	-	-	-	-
MW-5	12/10/2001	8.77	2.79	5.98	0.00	0.00	-	-	<50	<0.50	<0.50	<0.50	<1.5	45	-	-	-	-	-	-
MW-5	03/04/2002	8.77	2.52	6.25	0.00	0.00	-	-	<50	<0.50	<0.50	<0.50	<1.5	29	-	-	-	-	-	-
MW-5	06/03/2002	8.77	3.20	5.57	0.00	0.00	-	-	<50	<0.50	<0.50	<0.50	<1.5	40	-	-	-	-	-	-
MW-5	09/14/2002	8.77	3.85	4.92	0.00	0.00	-	-	<50	<0.50	<0.50	<0.50	<1.5	92	-	-	-	-	-	-

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**451 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

Location	Date	TOC*	DTW	GWE	LNAPLT	LNAPL REMOVED	HYDROCARBONS			PRIMARY VOCS						ADDITIONAL VOCS				
							TPH <sub>hmo</sub>	TPH-DRO	TPH-GRO	B	T	E	X	MTBE	MTBE by SW8260	Ethanol	TBA	DIPE	ETBE	TAME
	Units	ft	ft	ft-amsl	ft	gal	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-5	12/13/2002	8.77	3.45	5.32	0.00	0.00	-	-	<50	<0.50	<0.50	<0.50	<1.5	32	-	-	-	-	-	-
MW-5	03/14/2003	8.77	2.95	5.82	0.00	0.00	-	-	<50	<0.50	<0.50	<0.50	<1.5	71	-	-	-	-	-	-
MW-5	06/09/2003	8.77	3.19	5.58	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	79	-	-	-	-	-
MW-5	09/03/2003	8.77	3.79	4.98	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	2	<50	-	-	-	-
MW-5	12/01/2003	8.77	3.34	5.43	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	52	<50	-	-	-	-
MW-5	03/01/2004	8.77	2.48	6.29	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	120	<50	-	-	-	-
MW-5	06/02/2004	8.77	3.11	5.66	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	110	<50	-	-	-	-
MW-5	09/03/2004	8.77	5.11	3.66	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	80	<50	-	-	-	-
MW-5	12/20/2004	8.77	5.10	3.67	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	62	<50	-	-	-	-
MW-5	03/12/2005	8.77	4.71	4.06	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	58	<50	-	-	-	-
MW-5	06/28/2005	8.77	4.93	3.84	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	64	<50	-	-	-	-
MW-5	09/01/2005	8.77	4.92	3.85	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	61	<50	-	-	-	-
MW-5	12/01/2005	8.77	4.81	3.96	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	50	<50	-	-	-	-
MW-5	03/04/2006	8.77	4.78	3.99	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	49	<50	-	-	-	-
MW-5	06/01/2006	8.77	4.89	3.88	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	38	<50	-	-	-	-
MW-5	09/01/2006	8.77	4.94	3.83	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	32	<50	-	-	-	-
MW-5	12/15/2006	8.77	4.68	4.09	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	26	<50	-	-	-	-
MW-5	03/15/2007	8.77	4.88	3.89	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	23	<50	-	-	-	-
MW-5	06/15/2007	8.77	4.87	3.90	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	22	<50	-	-	-	-
MW-5	09/06/2007	8.77	4.77	4.00	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	17	<50	-	-	-	-
MW-5	12/07/2007	8.77	4.99	3.78	0.00	0.00	-	-	<250 <sup>17</sup>	<0.5	<0.5	<0.5	<0.5	-	22	<50	-	-	-	-
MW-5	03/07/2008	8.77	4.89	3.88	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	18	<50	-	-	-	-
MW-5	06/24/2008	8.77	5.12	3.65	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	18	<50	-	-	-	-

**TABLE 1  
GROUNDWATER MONITORING AND SAMPLING DATA  
FORMER CHEVRON SERVICE STATION 9-1851  
451 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

Location	Date	TOC*	DTW	GWE	LNAPLT	LNAPL REMOVED	HYDROCARBONS			PRIMARY VOCS						ADDITIONAL VOCS				
							TPH <sub>inc</sub>	TPH-DRO	TPH-GRO	B	T	E	X	MTBE	MTBE by SW8260	Ethanol	TBA	DIPE	ETBE	TAME
	Units	ft	ft	ft-amsl	ft	gal	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-5	09/11/2008	8.77	5.21	3.56	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	18	<50	-	-	-	-
MW-5	12/19/2008	8.77	4.98	3.79	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	17	<50	-	-	-	-
MW-5	03/31/2009	8.77	4.92	3.85	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	11	<50	-	-	-	-
MW-5	06/01/2009 <sup>24</sup>	8.77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	09/30/2009	8.77	5.32	3.45	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	14	<50	-	-	-	-
MW-5	12/10-11/2009 <sup>23</sup>	8.77	4.76	4.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	03/08/2010 <sup>24</sup>	8.77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>MW-5</b>	<b>06/10/2010<sup>23</sup></b>	<b>8.77</b>	<b>4.93</b>	<b>3.84</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-6	10/23/2000 <sup>10</sup>	11.45	7.15	4.30	0.00	0.00	-	-	<50	<0.500	<0.500	<0.500	<0.500	5.96	-	<1000	<100	<2.00	<2.00	<2.00
MW-6	12/08/2000	11.45	6.84	4.61	0.00	0.00	-	-	<50.0	<0.500	<0.500	<0.500	<0.500	8.80	-	-	-	-	-	-
MW-6	03/03/2001 <sup>11</sup>	11.45	6.13	5.32	0.00	0.00	-	-	<50	<0.50	<0.50	<0.50	<0.50	9.0	-	-	-	-	-	-
MW-6	06/19/2001	11.45	5.80	5.65	0.00	0.00	-	-	<50	<0.50	<0.50	<0.50	<0.50	<2.5	-	-	-	-	-	-
MW-6	09/05/2001	11.45	5.16	6.29	0.00	0.00	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-
MW-6	12/10/2001	11.45	4.81	6.64	0.00	0.00	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-
MW-6	03/04/2002	11.45	4.16	7.29	0.00	0.00	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-
MW-6	06/03/2002	11.45	5.71	5.74	0.00	0.00	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-
MW-6	09/14/2002	11.45	6.65	4.80	0.00	0.00	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-
MW-6	12/13/2002	11.45	6.39	5.06	0.00	0.00	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-
MW-6	03/14/2003	11.45	6.47	4.98	0.00	0.00	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-
MW-6	06/09/2003	11.45	6.78	4.67	0.00	0.00	-	-	<50	<0.5	0.7	<0.5	<0.5	-	1	-	-	-	-	-
MW-6	09/03/2003	11.45	7.08	4.37	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	0.8	<50	-	-	-	-
MW-6	12/01/2003	11.45	3.57	7.88	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<0.5	<50	-	-	-	-

**TABLE 1  
GROUNDWATER MONITORING AND SAMPLING DATA  
FORMER CHEVRON SERVICE STATION 9-1851  
451 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

Location	Date	TOC*	DTW	GWE	LNAPLT	LNAPL REMOVED	HYDROCARBONS			PRIMARY VOCS						ADDITIONAL VOCS				
							TPH <sub>hmo</sub>	TPH-DRO	TPH-GRO	B	T	E	X	MTBE	MTBE by SW8260	Ethanol	TBA	DIPE	ETBE	TAME
	Units	ft	ft	ft-amsl	ft	gal	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	03/01/2004	11.45	3.18	8.27	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	25	<50	-	-	-	-
MW-6	06/02/2004	11.45	3.50	7.95	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<0.5	<50	-	-	-	-
MW-6	09/03/2004	11.45	2.17	9.28	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	0.6	<50	-	-	-	-
MW-6	12/20/2004	11.45	6.03	5.42	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	0.6	<50	-	-	-	-
MW-6	03/12/2005	11.45	5.05	6.40	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<0.5	<50	-	-	-	-
MW-6	06/28/2005	11.45	2.36	9.09	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<0.5	<50	-	-	-	-
MW-6	09/01/2005	11.45	2.87	8.58	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	1	<50	-	-	-	-
MW-6	12/01/2005	11.45	2.90	8.55	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<0.5	<50	-	-	-	-
MW-6	03/04/2006	11.45	3.71	7.74	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<0.5	<50	-	-	-	-
MW-6	06/01/2006	11.45	2.57	8.88	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<0.5	<50	-	-	-	-
MW-6	09/01/2006	11.45	2.36	9.09	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	1	<50	-	-	-	-
MW-6	12/15/2006	11.45	3.16	8.29	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<0.5	<50	-	-	-	-
MW-6	03/15/2007	11.45	2.42	9.03	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<0.5	<50	-	-	-	-
MW-6	06/15/2007	11.45	3.32	8.13	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<0.5	<50	-	-	-	-
MW-6	09/06/2007	11.45	5.41	6.04	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	0.6	<50	-	-	-	-
MW-6	12/07/2007	11.45	5.94	5.51	0.00	0.00	-	-	<250 <sup>17</sup>	<0.5	<0.5	<0.5	<0.5	-	1	<50	-	-	-	-
MW-6	03/07/2008	11.45	6.22	5.23	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<0.5	<50	-	-	-	-
MW-6	06/24/2008	11.45	2.48	8.97	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<0.5	<50	-	-	-	-
MW-6	09/11/2008	11.45	2.57	8.88	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	1	<50	-	-	-	-
MW-6	12/19/2008	11.45	3.67	7.78	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	1	<50	-	-	-	-
MW-6	03/31/2009	11.45	5.18	6.27	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	0.7	<50	-	-	-	-
MW-6	06/01/2009	11.45	6.13	5.32	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	0.9 J	<50	-	-	-	-
MW-6	09/30/2009	11.45	6.13	5.32	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	4	<50	-	-	-	-

**TABLE 1  
GROUNDWATER MONITORING AND SAMPLING DATA  
FORMER CHEVRON SERVICE STATION 9-1851  
451 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

Location	Date	TOC*	DTW	GWE	LNAPLT	LNAPL REMOVED	HYDROCARBONS			PRIMARY VOCS						ADDITIONAL VOCS				
							TPH <sub>hmo</sub>	TPH-DRO	TPH-GRO	B	T	E	X	MTBE	MTBE by SW8260	Ethanol	TBA	DIPE	ETBE	TAME
	Units	ft	ft	ft-amsl	ft	gal	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	12/10-11/2009 <sup>23</sup>	11.45	2.54	8.91	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-6	03/08/2010	11.45	3.30	8.15	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	3	<50	-	-	-	-
<b>MW-6</b>	<b>06/10/2010<sup>23</sup></b>	<b>11.45</b>	<b>2.42</b>	<b>9.03</b>	<b>0.00</b>	<b>0.00</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	10/23/2000 <sup>10</sup>	10.58	6.25	4.33	0.00	0.00	-	-	<50	<0.500	<0.500	<0.500	<0.500	1210	-	<6670	<667	13.3	13.3	199
MW-7	12/08/2000	10.58	7.23	3.35	0.00	0.00	-	-	<50.0	<0.500	<0.500	<0.500	<0.500	338	-	-	-	-	-	-
MW-7	03/03/2001 <sup>11</sup>	10.58	6.27	4.31	0.00	0.00	-	-	72 <sup>12</sup>	<0.50	<0.50	<0.50	<0.50	460	-	-	-	-	-	-
MW-7	06/19/2001	10.58	5.82	4.76	0.00	0.00	-	-	110 <sup>1</sup>	18	<0.50	<0.50	<0.50	440	-	-	-	-	-	-
MW-7	09/05/2001	10.58	6.54	4.04	0.00	0.00	-	-	180	<0.50	<0.50	<0.50	<1.5	640	-	-	-	-	-	-
MW-7	12/10/2001	10.58	5.54	5.04	0.00	0.00	-	-	110	<0.50	<0.50	<0.50	<1.5	390	-	-	-	-	-	-
MW-7	03/04/2002	10.58	6.90	3.68	0.00	0.00	-	-	220	1.1	<0.50	3.0	<1.5	460	-	-	-	-	-	-
MW-7	06/03/2002	10.58	5.64	4.94	0.00	0.00	-	-	130	<0.50	<0.50	<0.50	<1.5	350	-	-	-	-	-	-
MW-7	09/14/2002	10.58	7.03	3.55	0.00	0.00	-	-	120	<2.0	<0.50	<0.50	<1.5	340	-	-	-	-	-	-
MW-7	12/13/2002	10.58	5.59	4.99	0.00	0.00	-	-	57	<0.50	<0.50	<0.50	<1.5	150	-	-	-	-	-	-
MW-7	03/14/2003	10.58	5.98	4.60	0.00	0.00	-	-	77	<0.50	<0.50	<0.50	<1.5	240	-	-	-	-	-	-
MW-7	06/09/2003	10.58	6.26	4.32	0.00	0.00	-	-	79	<0.5	<0.5	<0.5	<0.5	-	210	-	-	-	-	-
MW-7	09/03/2003	10.58	6.86	3.72	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	0.8	<50	-	-	-	-
MW-7	12/01/2003	10.58	5.47	5.11	0.00	0.00	-	-	58	<0.5	<0.5	<0.5	<0.5	-	130	<50	-	-	-	-
MW-7	03/01/2004	10.58	5.98	4.60	0.00	0.00	-	-	71	<0.5	<0.5	<0.5	<0.5	-	180	<50	-	-	-	-
MW-7	06/02/2004	10.58	4.81	5.77	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	87	<50	-	-	-	-
MW-7	09/03/2004	10.58	6.42	4.16	0.00	0.00	-	-	55	<0.5	<0.5	<0.5	<0.5	-	140	<50	-	-	-	-
MW-7	12/20/2004	10.58	6.22	4.36	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	130	<50	-	-	-	-
MW-7	03/12/2005	10.58	5.79	4.79	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	110	<50	-	-	-	-



**TABLE 1**  
**GROUNDWATER MONITORING AND SAMPLING DATA**  
**FORMER CHEVRON SERVICE STATION 9-1851**  
**451 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

Location	Date	TOC*	DTW	GWE	LNAPLT	LNAPL REMOVED	HYDROCARBONS			PRIMARY VOCS						ADDITIONAL VOCS				
							TPH <sub>hmo</sub>	TPH-DRO	TPH-GRO	B	T	E	X	MTBE	MTBE by SW8260	Ethanol	TBA	DIPE	ETBE	TAME
	Units	ft	ft	ft-amsl	ft	gal	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	06/28/2005	10.58	4.62	5.96	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	30	<50	-	-	-	-
MW-7	09/01/2005	10.58	4.78	5.80	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	70	<50	-	-	-	-
MW-7	12/01/2005	10.58	4.01	6.57	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	35	<50	-	-	-	-
MW-7	03/04/2006	10.58	5.89	4.69	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	49	<50	-	-	-	-
MW-7	06/01/2006	10.58	5.10	5.48	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	35	<50	-	-	-	-
MW-7	09/01/2006	10.58	5.31	5.27	0.00	0.00	-	-	<50	0.5	5	<0.5	5	-	17	<50	-	-	-	-
MW-7	12/15/2006	10.58	5.89	4.69	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	20	<50	-	-	-	-
MW-7	03/15/2007	10.58	5.67	4.91	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	19	<50	-	-	-	-
MW-7	06/15/2007	10.58	5.05	5.53	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	12	<50	-	-	-	-
MW-7	09/06/2007	10.58	5.42	5.16	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	14	<50	-	-	-	-
MW-7	12/07/2007	10.58	5.38	5.20	0.00	0.00	-	-	<250 <sup>17</sup>	<0.5	<0.5	<0.5	<0.5	-	8	<50	-	-	-	-
MW-7	03/07/2008	10.58	5.54	5.04	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	8	<50	-	-	-	-
MW-7	06/24/2008	10.58	6.10	4.48	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	9	<50	-	-	-	-
MW-7	09/11/2008	10.58	6.86	3.72	0.00	0.00	-	-	99	<0.5	<0.5	<0.5	<0.5	-	16	<50	-	-	-	-
MW-7	12/19/2008	10.58	6.54	4.04	0.00	0.00	-	-	<50	<0.5	0.7	<0.5	1	-	9	<50	-	-	-	-
MW-7	03/31/2009	10.58	6.59	3.99	0.00	0.00	-	-	53	<0.5	<0.5	<0.5	<0.5	-	8	<50	-	-	-	-
MW-7	06/01/2009	10.58	6.48	4.10	0.00	0.00	-	-	70 J	<0.5	<0.5	<0.5	<0.5	-	9	<50	-	-	-	-
MW-7	09/30/2009	10.58	7.47	3.11	0.00	0.00	-	-	110	<0.5	<0.5	<0.5	<0.5	-	11	<50	-	-	-	-
MW-7	12/10-11/2009 <sup>23</sup>	10.58	6.93	3.65	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	03/08/2010	10.58	5.70	4.88	0.00	0.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	7	<50	-	-	-	-
<b>MW-7</b>	<b>06/10/2010<sup>23</sup></b>	<b>10.58</b>	<b>5.56</b>	<b>5.02</b>	<b>0.00</b>	<b>0.00</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA	12/10/2001	-	-	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-

**TABLE 1  
GROUNDWATER MONITORING AND SAMPLING DATA  
FORMER CHEVRON SERVICE STATION 9-1851  
451 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

Location	Date	TOC*	DTW	GWE	LNAPLT	LNAPL REMOVED	HYDROCARBONS			PRIMARY VOCS						ADDITIONAL VOCS					
							TPH <sub>hmo</sub>	TPH-DRO	TPH-GRO	B	T	E	X	MTBE	MTBE by SW8260	Ethanol	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-amsl	ft	gal	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	03/04/2002	-	-	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-	-
QA	06/03/2002	-	-	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-	-
QA	09/14/2002	-	-	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-	-
QA	12/13/2002	-	-	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-	-
QA	03/14/2003	-	-	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-	-
QA	06/09/2003	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	-	-	-	-	-
QA	09/03/2003	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	-	-	-	-	-
QA	12/01/2003	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	-	-	-	-	-
QA	03/01/2004	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	-	-	-	-	-
QA	06/02/2004	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	-	-	-	-	-
QA	09/03/2004	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	-	-	-	-	-
QA	12/20/2004	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	-	-	-	-	-
QA	03/12/2005	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	-	-	-	-	-
QA	06/28/2005	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	-	-	-	-	-
QA	09/01/2005	-	-	-	-	-	-	-	<50	<0.5	315 <sup>15</sup>	<0.5	215 <sup>15</sup>	-	<0.5	-	-	-	-	-	-
QA	12/01/2005	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	-	-	-	-	-
QA	03/04/2006	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	-	-	-	-	-
QA	06/01/2006	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	-	-	-	-	-
QA	09/01/2006	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	-	-	-	-	-
QA	12/15/2006	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	-	-	-	-	-
QA	03/15/2007	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	-	-	-	-	-
QA	06/15/2007	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	-	-	-	-	-
QA	09/06/2007	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	-	-	-	-	-

**TABLE 1  
GROUNDWATER MONITORING AND SAMPLING DATA  
FORMER CHEVRON SERVICE STATION 9-1851  
451 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

Location	Date	TOC*	DTW	GWE	LNAPLT	LNAPL REMOVED	HYDROCARBONS			PRIMARY VOCS						ADDITIONAL VOCS				
							TPH <sub>hmo</sub>	TPH-DRO	TPH-GRO	B	T	E	X	MTBE	MTBE by SW8260	Ethanol	TBA	DIPE	ETBE	TAME
	Units	ft	ft	ft-amsl	ft	gal	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
QA	12/07/2007	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	-	-	-	-
QA	03/07/2008	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	-	-	-	-
QA	06/24/2008	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	-	-	-	-
QA	09/11/2008	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	-	-	-	-
QA	12/19/2008	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	-	-	-	-
QA	03/31/2009	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	0.7 <sup>21</sup>	-	<0.5	-	-	-	-	-
QA	06/01/2009	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	-	-	-	-
QA	09/30/2009	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	-	-	-	-
QA	12/10-11/2009	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	-	-	-	-
QA	03/08/2010	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	-	-	-	-
QA	06/10/2010 <sup>25</sup>	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	-	-	-	-
Trip Blank	03/29/1996	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
Trip Blank	06/26/1996	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-
Trip Blank	09/25/1996	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-
Trip Blank	12/17/1996	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-
Trip Blank	03/20/1997	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-
Trip Blank	06/20/1997	-	-	-	-	-	-	-	<50	<2.0	<2.0	<2.0	<2.0	-	-	-	-	-	-	-
Trip Blank	09/09/1997	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-
Trip Blank	12/12/1997	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-
Trip Blank	02/19/1998	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-
Trip Blank	06/23/1998	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-
Trip Blank	08/31/1998	-	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-

**TABLE 1**  
**GROUNDWATER MONITORING AND SAMPLING DATA**  
**FORMER CHEVRON SERVICE STATION 9-1851**  
**451 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

Location	Date	TOC*	DTW	GWE	LNAPLT	LNAPL REMOVED	HYDROCARBONS			PRIMARY VOCS					ADDITIONAL VOCS					
							TPH <sub>hmo</sub>	TPH-DRO	TPH-GRO	B	T	E	X	MTBE	MTBE by SW8260	Ethanol	TBA	DIPE	ETBE	TAME
	Units	ft	ft	ft-amsl	ft	gal	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Trip Blank	12/29/1998	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.0	-	-	-	-	-	-	-
Trip Blank	03/11/1999	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<5.0	-	-	-	-	-	-	-
Trip Blank	06/24/1999	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<5.0	-	-	-	-	-	-	-
Trip Blank	09/29/1999	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-
Trip Blank	12/08/1999	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<5.0	-	-	-	-	-	-	-
Trip Blank	03/01/2000	-	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-
Trip Blank	06/19/2000	-	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<0.50	<2.5	-	-	-	-	-	-	-
Trip Blank	09/30/2000	-	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<0.50	<2.5	-	-	-	-	-	-	-
Trip Blank	10/05/2000	-	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<0.50	<2.5	-	-	-	-	-	-	-
Trip Blank	12/08/2000	-	-	-	-	-	-	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	-	-	-	-	-	-	-
Trip Blank	03/03/2001 <sup>11</sup>	-	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<0.50	<2.5	-	-	-	-	-	-	-
Trip Blank	06/19/2001	-	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<0.50	<2.5	-	-	-	-	-	-	-
Trip Blank	09/05/2001	-	-	-	-	-	-	<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.

LNAPLT = Light non-aqueous phase liquid thickness.

TPH-DRO = Total petroleum hydrocarbons - diesel range organics.

TPH-GRO = Total petroleum hydrocarbons - gasoline range organics.

BTEX = Benzene, toluene, ethylbenzene, xylenes.

MTBE = Methyl tertiary butyl ether.

TBA = Tertiary butyl alcohol.

**TABLE 1**  
**GROUNDWATER MONITORING AND SAMPLING DATA**  
**FORMER CHEVRON SERVICE STATION 9-1851**  
**451 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

Location	Date	TOC*	DTW	GWE	LNAPLT	LNAPL REMOVED	HYDROCARBONS			PRIMARY VOCS					ADDITIONAL VOCS						
							TPH <sub>hmo</sub>	TPH-DRO	TPH-GRO	B	T	E	X	MTBE	MTBE by SW8260	Ethanol	TBA	DIPE	ETBE	TAME	
	Units	ft	ft	ft-amsl	ft	gal	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L

DIPE = Di-isopropyl ether.

ETBE = Ethyl tertiary butyl ether.

TAME = Tert amyl methyl ether.

Ft = Feet.

Ft-amsl = Feet above mean sea level.

Gal = Gallons.

µg/L = Micrograms per liter.

- = Not analyzed/not applicable.

<x = Not detected above laboratory method detection limit x.

U = Compound not detected.

J = Estimated value.

\* TOC elevations were surveyed on November 15, 2000, by Virgil Chavez Land Surveying. The benchmark for the survey was the letter "O" in Oakland on an inlet in the westerly curb of Oakport Road, 150' southerly of the end of curve. (Benchmark Elevation = 7.82 feet, msl).

\*\* GWE was corrected for the presence of LNAPL; correction factor: [(TOC - DTW) + (LNAPLT x 0.80)].

1 Laboratory report indicates gasoline C6-C12.

2 MTBE by EPA Method 8260.

3 Results of EPA 8010 test indicates that the detection of 1,1-Dichloroethane (1,1-DCA) was detected at 1.7 ppb.

4 Chromatogram pattern indicates an unidentified hydrocarbon.

5 Results of EPA 8015 test indicates that levels of Methanol and Methyl ethyl ketone are respectively <1000 and <200 ppb.

6 Confirmation run.

7 Laboratory report indicates unidentified hydrocarbons >C16.

8 Sample analyzed for Total Metals by EPA 200 Series Methods. All Analytes were less then the reporting limit except for Nickel was detected at 0.067 ppm and Zinc was detected at 0.024 ppm.

9 Laboratory report indicates that Semi-Volatile Organic Compounds

10 Data was provided by Delta Environmental Consultants, Inc.

11 Laboratory report indicates sample was analyzed outside the EPA recommended holding time.

12 Laboratory report indicates unidentified hydrocarbons C6-C12.

13 BTEX and MTBE by EPA Method 8260.

**TABLE 1**  
**GROUNDWATER MONITORING AND SAMPLING DATA**  
**FORMER CHEVRON SERVICE STATION 9-1851**  
**451 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

Location	Date	TOC*	DTW	GWE	LNAPLT	LNAPL REMOVED	HYDROCARBONS			PRIMARY VOCS					ADDITIONAL VOCS					
							TPH <sub>hmo</sub>	TPH-DRO	TPH-GRO	B	T	E	X	MTBE	MTBE by SW8260	Ethanol	TBA	DIPE	ETBE	TAME
	Units	ft	ft	ft-amsl	ft	gal	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

- 14 LNAPL + Water removed.
- 15 Analytical result confirmed.
- 16 Probe did not detect LNAPL but was covered with product; LNAPL was confirmed with bailer.
- 17 Laboratory report indicates due to excessive foaming of the sample, normal reporting limits were not attained.
- 18 Water plus 15 milliliters of product removed from well.
- 19 The vial submitted for volatile analysis did not have a pH<2 at the time of analysis, pH = 7.
- 20 Due to excessive foaming of the sample, normal reporting limits were not attained.
- 21 Laboratory report indicates the result reported for xylene (total) is possibly the result of carryover from the sample injected prior to this sample. Since only one vial was submitted, a repeat analysis without headspace could not be performed to confirm the results.
- 22 Not sampled due to presence of LNAPL.
- 23 Sampled semi-annually.
- 24 Inaccessible - car parked over well.
- 25 Monitoring and sampling occurred on 06/10/2010; however, the sample collection date was incorrectly written on the COC.

ATTACHMENT A

BLAINE TECH'S JUNE 14, 2010 *SECOND QUARTER 2010 MONITORING REPORT*





June 14, 2010

Chevron Environmental Management Company  
Aaron Costa  
6111 Bollinger Canyon Rd.  
San Ramon, CA 94583

Second Quarter 2010 Monitoring at  
Chevron Service Station 91851  
451 Hegenberger Rd.  
Oakland, CA

Monitoring performed on June 10, 2010

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**Blaine Tech Services, Inc. Groundwater Monitoring Event 100610-DR1**

This submission covers the routine monitoring of groundwater wells conducted on June 10, 2010 at this location. Seven monitoring wells were measured for depth to groundwater (DTW). Two monitoring wells were sampled. All sampling activities were performed in accordance with local, state and federal guidelines.

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

First Quarter Groundwater Monitoring at Chevron 91851, 451 Hegenberger Rd., 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 IWM facilities of San Jose, California.

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

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

Please call if you have any questions.

Sincerely,



Dustin Becker  
Blaine Tech Services, Inc.  
Senior Project Manager

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

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

First Quarter Groundwater Monitoring at Chevron 91851, 451 Hegenberger Rd., Oakland, CA

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

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

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

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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 over two-hundredths of a foot (0.02') of product.

### EVACUATION

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

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

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

## PARAMETER STABILIZATION

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

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

## DEWATERED WELLS

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

## MEASURING RECHARGE

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

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

## PURGEWATER CONTAINMENT

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

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

## SAMPLE COLLECTION DEVICES

All samples are collected using disposable bailers.

## SAMPLE CONTAINERS

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

## TRIP BLANKS

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

## DUPLICATES

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

## SAMPLE STORAGE

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

## DOCUMENTATION CONVENTIONS

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

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

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

## DECONTAMINATION

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

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

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

## DISSOLVED OXYGEN READINGS

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

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

## OXYIDATON REDUCTION POTENTIAL READINGS

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

## FERROUS IRON MEASUREMENTS

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

## WELL GAUGING DATA

Project # 100610-DRI Date 6/10/10 Client Chevron # 9-1851

Site 451 Hegenberger Rd. Oakland Ca.

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
mw-1	0846	2					3.40	14.61	↓	
mw-2	0905	2	Yes	4.45	0.07	—	4.52	—		
mw-3	0901	2					4.37	14.42		
mw-4	0859	2					4.60	14.92		
mw-5	0855	2					4.93	7.11		
mw-6	0838	2					2.42	9.92		
mw-7	0851	2					5.56	13.22		↓



# CHEMICAL WELL MONITORING DATA SHEET

Project #: 100610-DR1	Station #: 9-1851
Sampler: DR	Date: 6/10/10
Weather: Clear	Ambient Air Temperature: 70°F
Well I.D.: MW-1	Well Diameter: $\textcircled{2}$ 3 4 6 8 _____
Total Well Depth: 14.61	Depth to Water: 3.40
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: $\textcircled{PVC3}$ Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 5.64	

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

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

1.8	(Gals.) X	3	=	5.4	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 $\mu\text{S}$ )	Turbidity (NTUs)	Gals. Removed	Observations
0946	74.3	6.92	1981	77	1.8	
0949	74.3	6.99	1970	93	3.6	
0952	74.4	6.99	1964	118	5.4	

Did well dewater? Yes   No Gallons actually evacuated: 5.4

Sampling Date: 6/10/10 Sampling Time: 1000 Depth to Water: 4.12

Sample I.D.: MW-1 Laboratory:  $\textcircled{\text{Lancaster}}$  Other \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE OXYS Other: Sec CcC

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 #: 100610-DRI	Station #: 9-1851
Sampler: DR	Date: 6/10/10
Weather: Clear	Ambient Air Temperature: 70°F
Well I.D.: MW-2	Well Diameter: <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8 <input type="radio"/> _____
Total Well Depth: _____	Depth to Water: 4.52
Depth to Free Product: 4.45	Thickness of Free Product (feet): 0.07
Referenced to: <u>PVC3</u> Grade	D.O. Meter (if req'd):                      YSI                      HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: _____	

Purge Method:                      Sampling Method:                      Bailer

Bailer                       Waterra  
 Disposable Bailer                       Disposable Bailer  
 Positive Air Displacement                       Peristaltic  
 Electric Submersible                       Extraction Pump  
 Other \_\_\_\_\_                       Extraction Port  
 Other: \_\_\_\_\_                       Dedicated Tubing

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

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u> )	Turbidity (NTUs)	Gals. Removed	Observations
						SPH in well. No sample taken. SPH is very thick on the probe

Did well dewater?    Yes                      No                      Gallons actually evacuated: \_\_\_\_\_

Sampling Date: 6/10/10                      Sampling Time: \_\_\_\_\_                      Depth to Water: \_\_\_\_\_

Sample I.D.: MW-2                      Laboratory: Lancaster                      Other: \_\_\_\_\_

Analyzed for: TPH-G    BTEX    MTBE    OXYS    Other: Sec Cel

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

# CHEMICAL WELL MONITORING DATA SHEET

Project #: 100610-DRI	Station #: 9-1851
Sampler: DR	Date: 6/10/10
Weather: Clear	Ambient Air Temperature: 75°F
Well I.D.: MW-4	Well Diameter: $\text{⊕}$ 3 4 6 8 _____
Total Well Depth: 14.92	Depth to Water: 4.60
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: $\text{Ⓟ}$ PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.67	

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

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

1.7 (Gals.) X 3 = 5.1 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 $\mu\text{S}$ )	Turbidity (NTUs)	Gals. Removed	Observations
1005	74.0	6.99	1690	47	1.7	
1008	74.1	6.93	4218	67	3.4	
1011	74.3	6.92	4322	78	5.1	

Did well dewater? Yes   No      Gallons actually evacuated: 5.1

Sampling Date: 6/10/10      Sampling Time: 1015      Depth to Water: 6.23

Sample I.D.: MW-4      Laboratory:  $\text{Ⓟ}$  Lancaster Other \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE OXYS Other: Sec CcC

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-NORTHERN CALIFORNIA TYPE **A** BILL OF LADING

SOURCE RECORD **BILL OF LADING**  
 FOR NON-HAZARDOUS PURGEWATER RECOVERED FROM GROUNDWATER WELLS AT CHEVRON FACILITIES IN THE STATE OF CALIFORNIA. THE NON-HAZARDOUS PURGE- WATER WHICH HAS BEEN RECOVERED FROM GROUND- WATER WELLS IS COLLECTED BY THE CONTRACTOR, MADE UP INTO LOADS OF APPROPRIATE SIZE AND HAULED BY IWM TO THEIR FACILITY IN SAN JOSE, CALIFORNIA.

The contractor performing this work is BLAINE TECH SERVICES, INC. (BTS), 1680 Rogers Ave. San Jose CA (408)573-0555). Blaine Tech Services, Inc. is authorized by CHEVRON PRODUCTS COMPANY (CHEVRON) to recover, collect, apportion into loads, and haul the Non-Hazardous Well Purgewater that is drawn from wells at the CHEVRON facility indicated below and to deliver that purgewater to BTS. Transport routing of the Non-Hazardous Well Purgewater may be direct from one Chevron facility to BTS; from one Chevron facility to BTS via another Chevron facility; or any combination thereof. The Non-Hazardous Well Purgewater is and remains the property of CHEVRON.

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

9-1851 Aaron Costa  
 CHEVRON # Chevron Engineer

451 Hegenberger Rd. Oakland Ca.  
 street number street name city state

WELL I.D.	GALS.	WELL I.D.	GALS.
<u>MW-1</u>	<u>1 5.4</u>	<u>/</u>	<u>/</u>
<u>MW-4</u>	<u>1 5.1</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>
<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>
<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>
added equip.		any other	
rinse water <u>1 3.0</u>		adjustments <u>/</u>	
<b>TOTAL GALS.</b>		loaded onto	
<b>RECOVERED</b> <u>13.5</u>		BTS vehicle # <u>69</u>	
BTS event # <u>100610-DR1</u>	time <u>1020</u>	date <u>6/10/10</u>	
signature <u>D. Costa</u>			
*****			
<b>REC'D AT</b> <u>BTS-SJ</u>	time	date <u>/ /</u>	
unloaded by			
signature			



ATTACHMENT B

LANCASTER LABORATORIES' AUGUST 2, 2010 *ANALYTICAL RESULTS* REPORT



REVISED

## ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

Chevron  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

August 03, 2010

Project: 91851

Submittal Date: 06/11/2010  
Group Number: 1198394  
PO Number: 0015061031  
Release Number: COSTA  
State of Sample Origin: CAClient Sample DescriptionQA-T-100610 NA Water  
MW-1-W-100610 NA Water  
MW-4-W-100610 NA WaterLancaster Labs (LLI) #6003926  
6003927  
6003928

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

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

REVISED

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

Respectfully Submitted,



Jaime L. Ferguson  
Senior Specialist



# Analysis Report

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

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REVISED

Sample Description: QA-T-100610 NA Water  
Facility #91851 BTST  
451 Hegenberger-Oakland T0600102238 QA

LLI Sample # WW 6003926  
LLI Group # 1198394  
Account # 10991

Project Name: 91851

Collected: 06/10/2010 08:30

Chevron

Submitted: 06/11/2010 09:00

6001 Bollinger Canyon Rd L4310

Reported: 08/03/2010 13:18

San Ramon CA 94583

Discard: 09/03/2010

HOQA-

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

### General Sample Comments

State of California Lab Certification No. 2501

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

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	F101654AA	06/14/2010 22:26	Florida A Cimino	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F101654AA	06/14/2010 22:26	Florida A Cimino	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10165B07A	06/15/2010 11:54	Tyler O Griffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	10165B07A	06/15/2010 11:54	Tyler O Griffin	1

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



# Analysis Report

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REVISED

**Sample Description:** MW-1-W-100610 NA Water  
Facility #91851 BTST  
451 Hegenberger-Oakland T0600102238 MW-1

LLI Sample # WW 6003927  
LLI Group # 1198394  
Account # 10991

**Project Name:** 91851

Collected: 06/10/2010 10:00 by DR

Chevron

6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

Submitted: 06/11/2010 09:00

Reported: 08/03/2010 13:18

Discard: 09/03/2010

HOMW1

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>						
10943	Benzene	71-43-2	N.D.	0.5	1	1
10943	Ethanol	64-17-5	N.D.	50	250	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	2	0.5	1	1
10943	Toluene	108-88-3	N.D.	0.5	1	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
<b>GC Volatiles SW-846 8015B</b>						
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1
<b>GC Extractable TPH SW-846 8015B modified</b>						
02500	Total TPH	n.a.	280	38	110	1
02500	TPH Motor Oil C16-C36	n.a.	280	38	110	1

TPH quantitation is based on peak area comparison of the sample pattern to that of a hydrocarbon component mix calibration in a range that includes C8 (n-octane) through C40 (n-tetracontane) normal hydrocarbons.

### General Sample Comments

State of California Lab Certification No. 2501

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

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	UST VOCs by 8260B - Water	SW-846 8260B	1	Z101662AA	06/15/2010 14:06	Ginelle L Feister	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z101662AA	06/15/2010 14:06	Ginelle L Feister	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10165B07A	06/15/2010 18:01	Tyler O Griffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	10165B07A	06/15/2010 18:01	Tyler O Griffin	1
02500	TPH Fuels by GC (Waters)	SW-846 8015B modified	1	101630002A	06/15/2010 06:38	Heather E Williams	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	101630002A	06/12/2010 11:00	Olivia I Santiago	1

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



# Analysis Report

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**Sample Description: MW-4-W-100610 NA Water**  
**Facility #91851 BTST**  
**451 Hegenberger-Oakland T0600102238 MW-4**

**LLI Sample # WW 6003928**  
**LLI Group # 1198394**  
**Account # 10991**

**Project Name: 91851**

Collected: 06/10/2010 10:15 by DR

Chevron

6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

Submitted: 06/11/2010 09:00

Reported: 08/03/2010 13:18

Discard: 09/03/2010

HOMW4

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>						
10943	Benzene	71-43-2	N.D.	0.5	1	1
10943	Ethanol	64-17-5	N.D.	50	250	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	21	0.5	1	1
10943	Toluene	108-88-3	N.D.	0.5	1	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
<b>GC Volatiles SW-846 8015B</b>						
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1
<b>GC Extractable TPH SW-846 8015B modified</b>						
02500	Total TPH	n.a.	400	38	110	1
02500	TPH Motor Oil C16-C36	n.a.	400	38	110	1

TPH quantitation is based on peak area comparison of the sample pattern to that of a hydrocarbon component mix calibration in a range that includes C8 (n-octane) through C40 (n-tetracontane) normal hydrocarbons.

### General Sample Comments

State of California Lab Certification No. 2501

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

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	UST VOCs by 8260B - Water	SW-846 8260B	1	Z101661AA	06/15/2010 14:45	Ginelle L Feister	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z101661AA	06/15/2010 14:45	Ginelle L Feister	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10165B07A	06/15/2010 18:27	Tyler O Griffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	10165B07A	06/15/2010 18:27	Tyler O Griffin	1
02500	TPH Fuels by GC (Waters)	SW-846 8015B modified	1	101630002A	06/15/2010 07:03	Heather E Williams	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	101630002A	06/12/2010 11:00	Olivia I Santiago	1

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

## Quality Control Summary

 Client Name: Chevron  
 Reported: 08/03/10 at 01:18 PM

Group Number: 1198394

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

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: F101654AA Sample number(s): 6003926									
Benzene	N.D.	0.5	1	ug/l	82	82	79-120	0	30
Ethylbenzene	N.D.	0.5	1	ug/l	83	85	79-120	2	30
Methyl Tertiary Butyl Ether	N.D.	0.5	1	ug/l	87	88	76-120	1	30
Toluene	N.D.	0.5	1	ug/l	82	85	79-120	4	30
Xylene (Total)	N.D.	0.5	1	ug/l	87	89	80-120	2	30
Batch number: Z101661AA Sample number(s): 6003928									
Benzene	N.D.	0.5	1	ug/l	92		79-120		
Ethanol	N.D.	50.	250	ug/l	88		40-158		
Ethylbenzene	N.D.	0.5	1	ug/l	94		79-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	1	ug/l	94		76-120		
Toluene	N.D.	0.5	1	ug/l	93		79-120		
Xylene (Total)	N.D.	0.5	1	ug/l	96		80-120		
Batch number: Z101662AA Sample number(s): 6003927									
Benzene	N.D.	0.5	1	ug/l	90		79-120		
Ethanol	N.D.	50.	250	ug/l	93		40-158		
Ethylbenzene	N.D.	0.5	1	ug/l	93		79-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	1	ug/l	96		76-120		
Toluene	N.D.	0.5	1	ug/l	93		79-120		
Xylene (Total)	N.D.	0.5	1	ug/l	95		80-120		
Batch number: 10165B07A Sample number(s): 6003926-6003928									
TPH-GRO N. CA water C6-C12	N.D.	50.	100	ug/l	100	100	75-135	0	30
Batch number: 101630002A Sample number(s): 6003927-6003928									
Total TPH	N.D.	40.	120	ug/l	108	109	60-120	1	20
TPH Motor Oil C16-C36	N.D.	40.	120	ug/l					

### Sample Matrix Quality Control

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

<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: F101654AA Sample number(s): 6003926 UNSPK: P004984									
Benzene	86		80-126						
Ethylbenzene	89		71-134						
Methyl Tertiary Butyl Ether	86		72-126						
Toluene	90		80-125						
Xylene (Total)	95		79-125						

\*- Outside of specification

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

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

 Client Name: Chevron  
 Reported: 08/03/10 at 01:18 PM

Group Number: 1198394

### Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Batch number: Z101661AA	Sample number(s): 6003928 UNSPK: P003994							
Benzene	100	101	80-126	1	30			
Ethanol	90	92	37-164	2	30			
Ethylbenzene	103	104	71-134	1	30			
Methyl Tertiary Butyl Ether	171 (2)	-90 (2)	72-126	12	30			
Toluene	102	103	80-125	1	30			
Xylene (Total)	104	104	79-125	0	30			
Batch number: Z101662AA	Sample number(s): 6003927 UNSPK: P004329							
Benzene	93	95	80-126	2	30			
Ethanol	94	97	37-164	3	30			
Ethylbenzene	97	98	71-134	1	30			
Methyl Tertiary Butyl Ether	95	99	72-126	3	30			
Toluene	96	97	80-125	2	30			
Xylene (Total)	98	100	79-125	2	30			
Batch number: 10165B07A	Sample number(s): 6003926-6003928 UNSPK: P002329							
TPH-GRO N. CA water C6-C12	91		63-154					

### Surrogate Quality Control

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

 Analysis Name: UST VOCs by 8260B - Water  
 Batch number: F101654AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6003926	108	102	99	94
Blank	103	98	101	95
LCS	102	99	98	102
LCSD	102	99	99	103
MS	102	98	100	103
Limits:	80-116	77-113	80-113	78-113

 Analysis Name: UST VOCs by 8260B - Water  
 Batch number: Z101661AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6003928	99	97	98	95
Blank	100	96	98	95
LCS	101	99	98	96
MS	100	99	99	96
MSD	101	99	98	95
Limits:	80-116	77-113	80-113	78-113

Analysis Name: UST VOCs by 8260B - 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: 08/03/10 at 01:18 PM

Group Number: 1198394

### Surrogate Quality Control

Batch number: Z101662AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6003927	101	96	98	94
Blank	100	97	98	96
LCS	101	99	98	96
MS	99	98	98	96
MSD	99	100	98	96
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO N. CA water C6-C12  
Batch number: 10165B07A  
Trifluorotoluene-F

6003926	94
6003927	94
6003928	91
Blank	97
LCS	107
LCSD	106
MS	106
Limits:	63-135

Analysis Name: TPH Fuels by GC (Waters)  
Batch number: 101630002A

	Chlorobenzene	Orthoterphenyl
6003927	61	90
6003928	62	98
Blank	68	95
LCS	74	107
LCSD	72	106
Limits:	28-152	52-131

\*- Outside of specification

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

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



061010-03

AMENDED

CHAIN OF CUSTODY FORM

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

COC 1 of 1

Chevron Site Number: 91851  
 Chevron Site Global ID: T060012238  
 Chevron Site Address: 451 Heckenberger Rd.  
Oakland, CA  
 Chevron PM: AARON COSTA  
 Chevron PM Phone No.: (925)543-2961  
 Retail and Terminal Business Unit (RTBU) Job  
 Construction/Retail Job

Chevron Consultant: CRA  
 Address: 5900 Hollis St. Suite A Emeryville  
 CA Consultant Contact: Nathan Lee  
 Consultant Phone No. 510-420-3351  
 Consultant Project No. 100610-Dr1  
 Sampling Company: Blaine Tech Services  
 Sampled By (Print): D. Reynal  
 Sampler Signature: D-O-R

ANALYSES REQUIRED

<input checked="" type="checkbox"/> EPA 8260B/GCMS	<input checked="" type="checkbox"/> EPA 8015B	<input checked="" type="checkbox"/> EPA 8021B	<input type="checkbox"/> EPA 6010	<input type="checkbox"/> EPA 6010/7000	<input type="checkbox"/> EPA 150.1	<input type="checkbox"/> SM2510B	<input type="checkbox"/> EPA 418.1	<input type="checkbox"/> EPA 8260	<input type="checkbox"/> EPA 8015	<input type="checkbox"/> TPH m0
TPH-LD	GRO	BTEX	Ca, Fe, K, Mg, Mn, Na	TITLE 22 METALS	ALKALINITY	SPECIFIC CONDUCTIVITY	TRPH	ETHANOL	TPH-D	
<input type="checkbox"/> HYDRO	<input type="checkbox"/> HC SCREEN	<input type="checkbox"/> ORO	<input type="checkbox"/> MTBE	<input type="checkbox"/> STLC	<input type="checkbox"/> EPA 310.1	<input type="checkbox"/> EPA 413.1				

Preservation Codes  
 H = HCL T = Thioculfate  
 N = HNO<sub>3</sub> B = NaOH  
 S = H<sub>2</sub>SO<sub>4</sub> O = Other  
 Acct # 10991  
 Crp # 1198394  
 Sample # 6203926-8  
 Special Instructions  
 Must meet lowest detection limits possible for 8260 Compounds

Charge Code: NWRTB-0091851-0-OML  
NWRTB 00SITE NUMBER-0-WBS  
 (WBS ELEMENTS:  
 SITE ASSESSMENT: A1L REMEDIATION IMPLEMENTATION; REL  
 SITE MONITORING: OML OPERATION MAINTENANCE & MONITORING: M1L  
 THIS IS A LEGAL DOCUMENT. ALL FIELDS MUST BE FILLED OUT CORRECTLY AND COMPLETELY.

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

Other Lab	Temp. Blank	Check
	Time	Temp.
	<u>0900</u>	<u>0°C</u>
	<u>1100</u>	<u>10°C</u>

SAMPLE ID				Sample Time	#.of.Containers	Container Type
Field Point Name	Matrix	Top Depth	Date (yy/mm/dd)			
<u>QA</u>	<u>T</u>		<u>10/06/10</u>	<u>0830</u>	<u>2</u>	<u>1 ltr vials</u>
<u>MW-1</u>	<u>W</u>		<u>↓</u>	<u>1000</u>	<u>8</u>	<u>6 ltr vials 2 Amber</u>
<u>MW-4</u>	<u>W</u>		<u>↓</u>	<u>1015</u>	<u>8</u>	<u>↓</u>

Relinquished By <u>D-O-R</u>	Company <u>BTS</u>	Date/Time <u>6/10/10 1251</u>	Relinquished To <u>[Signature]</u>	Company <u>LLJ</u>	Date/Time <u>6/10/10 1251</u>
Relinquished By	Company	Date/Time	Relinquished To	Company	Date/Time
Relinquished By	Company	Date/Time	Relinquished To	Company	Date/Time

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



# 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>ug</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>ml</b>	milliliter(s)	<b>l</b>	liter(s)
<b>m3</b>	cubic meter(s)	<b>ul</b>	microliter(s)
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>J</b>	estimated value – The result is $\geq$ the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
<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 of gas 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.		

## U.S. EPA CLP Data Qualifiers:

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

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

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

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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