



# GETTLER-RYAN INC.

10454

## TRANSMITTAL

April 4, 2003  
G-R #386492

TO: Mr. Robert Foss  
Cambria Environmental Technology, Inc.  
5900 Hollis Street, Suite A  
Emeryville, CA 94608

CC: Ms. Karen Streich  
Chevron Products Company  
P.O. Box 6004  
San Ramon, California 94583

FROM: Deanna L. Harding  
Project Coordinator  
Gettler-Ryan Inc.  
6747 Sierra Court, Suite J  
Dublin, California 94568

Alameda County  
APR 23 2003  
Environmental Health

RE: Former Chevron (Signal Oil)  
Service Station #206145 (S-800)  
800 Center Street  
Oakland, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	April 2, 2003	Groundwater Monitoring and Sampling Report First Quarter - Event of February 24 & 25, 2003

### COMMENTS:

This report is being sent for your review. Please provide any comments/changes and propose any groundwater monitoring modifications for the next event prior to **April 18, 2003**, at which time the final report will be distributed to the following:

- cc: Mr. Barney Chan, Alameda County Health Care Services, Dept. of Environmental Health, 1153 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577
- Mr. Terrell A. Sadler, 618 Brooklyn Avenue, Oakland, CA 94606
- Mr. James Scott, BPH, Inc., 333 Hegenberger Road, Suite 209, Oakland, CA 94621
- Mr. Hollis Rodgers, c/o Victor E. Brown, Esq., 580 Grand Avenue, Oakland, CA 94610

Enclosures

trans/206145-KS



# GETTLER-RYAN INC.

April 2, 2003  
G-R Job #386492

Ms. Karen Streich  
Chevron Products Company  
P.O. Box 6004  
San Ramon, CA 94583

**RE: First Quarter Event of February 24 and 25, 2003**  
Groundwater Monitoring & Sampling Report  
Former Chevron (Signal Oil) Service Station  
#206145 (S-800)  
800 Center Street  
Oakland, California

Dear Ms. Streich:

This report documents the well development and the most recent groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R) at the referenced site. All field work was conducted in accordance with G-R Standard Operating Procedure - Groundwater Sampling (attached).

Static groundwater levels were measured and the wells were checked for the presence of separate-phase hydrocarbons. Static water level data, groundwater elevations and separate-phase hydrocarbon thickness (if any) are presented in the attached Table 1. A Potentiometric Map is included as Figure 1.

Groundwater samples were collected from the monitoring wells and submitted to a state certified laboratory for analyses. The field data sheets for this event are attached. Analytical results are presented in the table(s) listed below. The chain of custody document and laboratory analytical report are also attached.

Please call if you have any questions or comments regarding this report. Thank you.

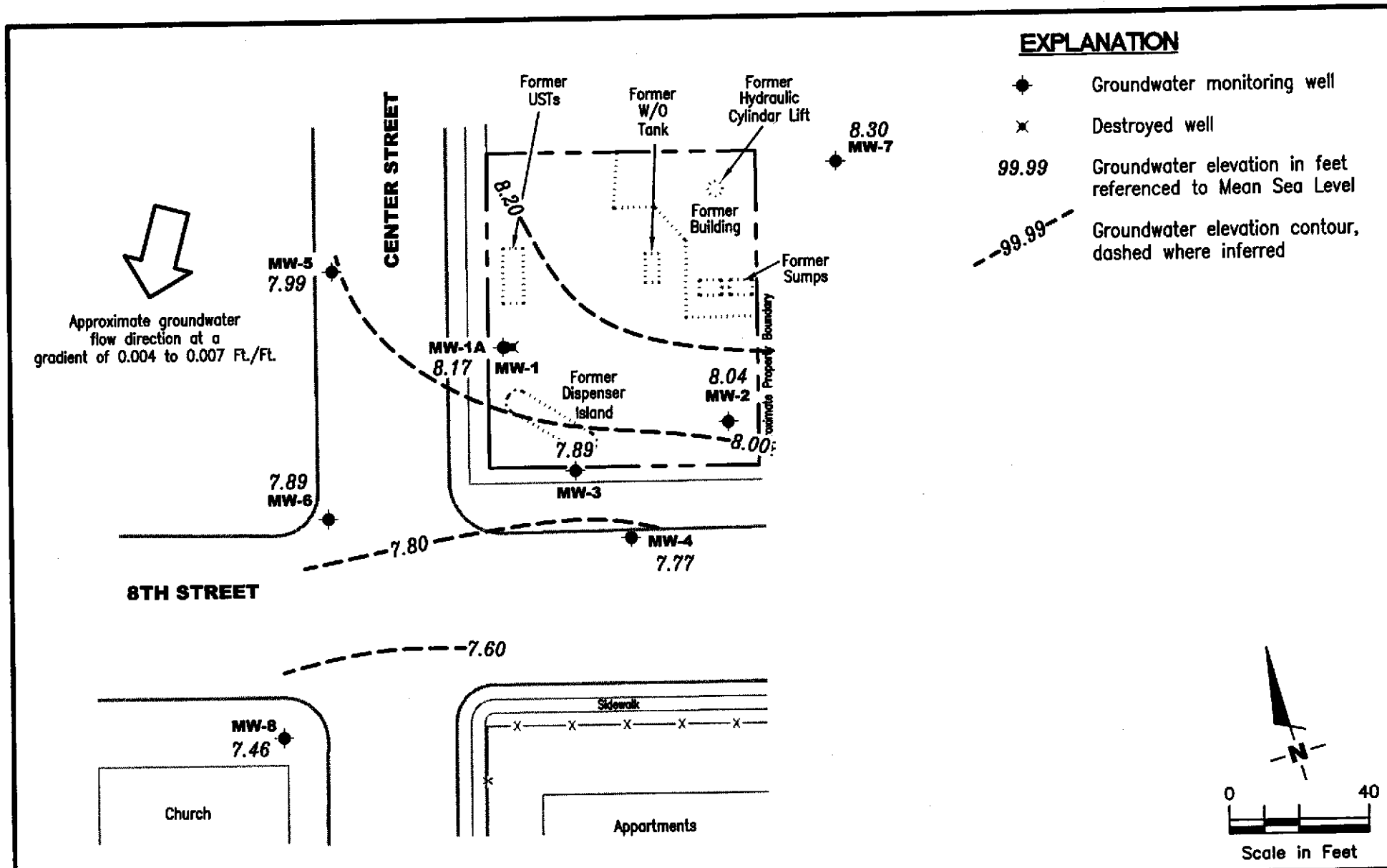
Sincerely,

Deanna L. Harding  
Project Coordinator

Hagop Kevork  
P.E. No. C55734



- Figure 1: Potentiometric Map
- Table 1: Groundwater Monitoring Data and Analytical Results
- Table 2: Field Measurements and Analytical Results
- Table 3: Groundwater Analytical Results - Oxygenate Compounds
- Attachments: Standard Operating Procedure - Groundwater Sampling  
Field Data Sheets  
Chain of Custody Document and Laboratory Analytical Reports



Source: Figure modified from drawing provided by RRM engineering contracting firm.

**GETTLER - RYAN INC.**  
 6747 Sierra Ct., Suite J  
 Dublin, CA 94568 (925) 551-7555

**POTENTIOMETRIC MAP**  
 Former Chevron (Signal Oil) Service Station #206145(S-800)  
 800 Center Street  
 Oakland, California

FIGURE  
**1**

PROJECT NUMBER  
**386492**

REVIEWED BY

DATE

February 24 and 25, 2003

REVISED DATE

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron (Signal Oil) Service Station #206145 (S-800)  
800 Center Street  
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	CUB (cfu/ml)
<b>MW-1</b>											
10/27/95	15.69	10.54	5.15	--	170,000	19,000	34,000	4,800	26,000	--	--
02/20/97	15.64	8.96	6.68	--	18,000	870	3,500	470	2,100	<250	--
04/24/97	15.64	7.30	8.34	--	76,000	4,600	16,000	1,600	8,300	1,000	--
07/23/97	15.64	5.90	9.74	--	37,000	2,700	8,000	870	6,100	<250	--
10/29/97	15.64	INACCESSIBLE	--	--	--	--	--	--	--	--	--
01/28/98	15.64	9.30	6.34	--	10,000	380	2,000	300	1,500	<25	--
05/11/98	15.64	8.72	6.92	--	17,000	880	3,100	380	2,300	<250	--
07/16/98	15.64	7.23	8.41	--	29,000	2,700	6,800	890	3,900	<1,000	--
08/04/98 <sup>a</sup>	15.64	6.90	8.74	--	--	--	--	--	--	--	<1.0 x 10 <sup>1</sup>
09/03/98 <sup>a</sup>	15.64	6.43	9.21	--	--	--	--	--	--	--	4.1 x 10 <sup>3</sup>
10/21/98 <sup>b</sup>	15.64	5.59	10.05	--	--	--	--	--	--	--	4.7 x 10 <sup>2</sup>
11/04/98	15.64	5.64	10.00	--	25,000	1,900	5,900	810	4,300	<125	--
01/26/99	15.64	6.86	8.78	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
05/06/99	15.64	8.17	7.47	--	8,050	515	1,840	256	1,190	300/<20 <sup>c</sup>	--
08/21/99	15.64	13.27	2.37	--	46,500	2,530	8,700	1,010	5,300	<1,250/<40 <sup>c</sup>	--
10/28/99	15.64	5.46	10.18	--	31,600	1,580	6,100	794	4,400	1,270	--
01/31/00	15.64	7.49	8.15	--	7,270	366	1,280	171	935	<12.5	--
05/19/00	15.64	7.78	7.86	--	8,000 <sup>e</sup>	870	1,200	430	1,200	<250	--
08/07/00	15.64	6.42	9.22	--	37,000 <sup>e</sup>	2,400	8,500	1,100	5,500	1,500/<4.0 <sup>f</sup>	--
12/01/00	15.64	5.25	10.39	--	25,500 <sup>g</sup>	1,390	4,920	801	4,330	<500/<10 <sup>f</sup>	--
02/09/01	15.64	6.10	9.54	--	8,900 <sup>e</sup>	850	1,300	470	1,700	820/<2.0 <sup>f</sup>	--
05/29/01	15.64	6.79	8.85	--	24,000 <sup>e</sup>	1,800	5,600	740	3,700	<250/<2.0 <sup>f</sup>	--
08/27/01 <sup>h</sup>	15.64	5.83	9.81	--	27,000	1,400	4,400	710	3,400	--/<20 <sup>f</sup>	--
11/28/01	15.64	5.84	9.80	--	26,000	1,300	3,900	620	3,400	<100/<2 <sup>f</sup>	--
02/14/02	15.63	8.34	7.29	--	1,400	100	360	45	240	9.3/<2 <sup>f</sup>	--
05/15/02	15.63	7.18	8.45	--	37,000	2,400	7,300	1,000	4,800	<100/<3.0 <sup>f</sup>	--
08/05/02	15.63	6.09	9.54	--	27,000	1,500	4,600	700	3,400	<100/<3.0 <sup>f</sup>	--
DESTROYED -											
<b>MW-1A</b>											
02/24-25/03 <sup>l</sup>	15.49	8.17	7.32	4,600	5,100	92	340	66	480	<10	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron (Signal Oil) Service Station #206145 (S-800)  
800 Center Street  
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	CUB (cfu/ml)
<b>MW-2</b>											
10/27/95	15.77	10.60	5.17	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/20/97	15.72	8.51	7.21	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/24/97	15.72	7.82	7.90	--	83 <sup>d</sup>	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/23/97	15.72	5.92	9.80	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/29/97	15.72	5.13	10.59	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/28/98	15.72	9.21	6.51	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/11/98	15.72	8.82	6.90	--	SAMPLED ANNUALLY		--	--	--	--	--
07/16/98	15.72	7.37	8.35	--	--	--	--	--	--	--	--
08/04/98 <sup>a</sup>	15.72	7.03	8.69	--	--	--	--	--	--	--	1.9 x 10 <sup>1</sup>
09/03/98 <sup>a</sup>	15.72	6.44	9.28	--	--	--	--	--	--	--	3.0 x 10 <sup>2</sup>
10/21/98 <sup>b</sup>	15.72	5.51	10.21	--	--	--	--	--	--	--	8.8 x 10 <sup>2</sup>
11/04/98	15.72	5.60	10.12	--	--	--	--	--	--	--	--
01/26/99	15.72	6.87	8.85	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
05/06/99	15.72	8.20	7.52	--	--	--	--	--	--	--	--
08/21/99	15.72	13.21	2.51	--	--	--	--	--	--	--	--
10/28/99	15.72	6.35	9.37	--	--	--	--	--	--	--	--
01/31/00	15.72	7.25	8.47	--	<50	<0.5	0.541	<0.5	<0.5	<2.5	--
05/19/00	15.72	7.65	8.07	--	--	--	--	--	--	--	--
08/07/00	15.72	6.35	9.37	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5/<2.0 <sup>f</sup>	--
12/01/00	15.72	5.60	10.12	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
02/09/01	15.72	6.05	9.67	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
05/29/01	15.72	6.73	8.99	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
08/27/01 <sup>h</sup>	15.72	5.68	10.04	--	<50	<0.50	<0.50	<0.50	<0.50	--<5.0 <sup>f</sup>	--
11/28/01	15.72	5.86	9.86	--	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	--
02/14/02	15.69	7.86	7.83	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
05/15/02	15.69	7.09	8.60	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
08/05/02	15.69	6.02	9.67	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
11/30/02	15.69	DRY	--	--	--	--	--	--	--	--	--
02/24-25/03 <sup>i</sup>	15.69	8.04	7.65	140	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--

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Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	CUB (cfu/ml)	
<b>MW-3</b>												
10/27/95	15.46	10.37	5.09	--	33,000	11,000	1,700	2,300	4,200	--	--	
02/20/97	15.42	8.37	7.05	--	260	56	<1.0	7.6	5.9	<5.0	--	
04/24/97	15.42	7.29	8.13	--	1,400	310	28	76	75	74	--	
07/23/97	15.42	5.84	9.58	--	37,000	10,000	1,500	2,700	4,200	2,500	--	
10/29/97	15.42	5.09	10.33	--	53,000	12,000	1,200	3,000	3,100	2,500	--	
01/28/98	15.42	8.94	6.48	--	210	43	1.5	1.7	3.9	10	--	
05/11/98	15.42	8.49	6.93	--	59	11	<0.5	2.1	<0.5	<2.5	--	
07/16/98	15.42	7.14	8.28	--	260	90	4.8	18	5.7	<10	--	
08/04/98 <sup>a</sup>	15.42	6.88	8.54	--	--	--	--	--	--	--	8.5 x 10 <sup>2</sup>	
09/03/98 <sup>a</sup>	15.42	6.34	9.08	--	--	--	--	--	--	--	2.4 x 10 <sup>3</sup>	
10/21/98 <sup>b</sup>	15.42	5.62	9.80	--	--	--	--	--	--	--	6.0 x 10 <sup>1</sup>	
11/04/98	15.42	5.60	9.82	--	73,000	17,000	3,800	4,900	8,100	<250	--	
01/26/99	15.42	6.70	8.72	--	32,400	10,200	1,850	2,650	3,140	715/<500 <sup>c</sup>	--	
05/06/99	15.42	7.97	7.45	--	3,160	668	89.6	180	123	<200/<10 <sup>c</sup>	--	
08/21/99	15.42	7.95	7.47	--	53,800	9,700	2,040	2,880	5,000	<1,250/<40 <sup>c</sup>	--	
10/28/99	15.42	5.37	10.05	--	71,300	14,000	3,420	4,320	8,360	<1,000	--	
01/31/00	15.42	7.16	8.26	--	1,650	496	49.1	134	82.6	<12.5	--	
05/19/00	15.42	7.60	7.82	--	110 <sup>e</sup>	36	2.5	9.1	4.0	6.3	--	
08/07/00	15.42	6.29	9.13	--	36,000 <sup>e</sup>	9,000	3,000	2,700	2,800	2,500/<10 <sup>f</sup>	--	
12/01/00	15.42	2.45	12.97	--	NOT SAMPLED DUE TO INSUFFICIENT WATER						--	--
02/09/01	15.42	5.98	9.44	--	32,000 <sup>e</sup>	11,000	3,900	3,200	4,800	3,200/<2.0 <sup>f</sup>	--	
05/29/01	15.42	6.65	8.77	--	13,000	4,200	2,000	1,800	1,500	74/<2.0 <sup>f</sup>	--	
08/27/01 <sup>h</sup>	15.42	5.70	9.72	--	40,000	7,600	2,800	2,500	2,700	--/<25 <sup>f</sup>	--	
11/28/01	15.42	5.77	9.65	--	57,000	10,000	2,900	2,900	2,800	<250/<5.0 <sup>f</sup>	--	
02/14/02	15.40	7.73	7.67	--	51	2.9	<0.50	1.9	1.8	<2.5/<2 <sup>f</sup>	--	
05/15/02	15.40	7.05	8.35	--	4,100	910	250	210	240	<20/<2 <sup>f</sup>	--	
08/05/02	15.40	5.96	9.44	--	58,000	11,000	4,300	3,400	4,000	<250/<10 <sup>f</sup>	--	
11/30/02	15.40	5.14	10.26	--	46,000	13,000	2,900	3,700	2,600	<100/<10 <sup>f</sup>	--	
02/24-25/03 <sup>i</sup>	15.40	7.89	7.51	4,500	52,000	9,600	4,800	2,900	4,100	<130	--	

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron (Signal Oil) Service Station #206145 (S-800)  
800 Center Street  
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	CUB (cfu/ml)
<b>MW-4</b>											
10/27/95	14.45	9.37	5.08	--	66	6.8	<0.5	<0.5	<0.5	--	--
02/20/97	14.40	8.12	6.28	--	54	<0.5	<0.5	<0.5	7.4	39	--
04/24/97	14.40	7.29	7.11	--	54	1.4	<0.5	0.65	3.0	100	--
07/23/97	14.40	5.80	8.60	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/29/97	14.40	5.74	8.66	--	--	--	--	--	--	--	--
11/13/97	14.40	4.97	9.43	--	<50	<0.5	0.79	<0.5	<0.5	<2.5	--
01/28/98	14.40	8.88	5.52	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/11/98	14.40	8.40	6.00	--	SAMPLED BIANNUALLY		--	--	--	--	--
07/16/98	14.40	7.08	7.32	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
08/04/98 <sup>a</sup>	14.40	6.28	8.12	--	--	--	--	--	--	--	1.8 x 10 <sup>4</sup>
09/03/98 <sup>a</sup>	14.40	6.32	8.08	--	--	--	--	--	--	--	1.4 x 10 <sup>4</sup>
10/21/98 <sup>b</sup>	14.40	5.64	8.76	--	--	--	--	--	--	--	8.6 x 10 <sup>4</sup>
11/04/98	14.40	5.61	8.79	--	--	--	--	--	--	--	--
01/26/99	14.40	6.71	7.69	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
05/06/99	14.40	8.15	6.25	--	--	--	--	--	--	--	--
08/21/99	14.40	8.13	6.27	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
10/28/99	14.40	4.14	10.26	--	--	--	--	--	--	--	--
01/31/00	14.40	7.07	7.33	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/19/00	14.40	7.52	6.88	--	--	--	--	--	--	--	--
08/07/00	14.40	6.23	8.17	--	<50	4.3	0.60	<0.50	<0.50	<2.5/<2.0 <sup>f</sup>	--
12/01/00	14.40	INACCESSIBLE	--	--	--	--	--	--	--	--	--
02/09/01	14.40	INACCESSIBLE	--	--	--	--	--	--	--	--	--
05/29/01	14.40	6.58	7.82	--	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--
08/27/01	14.40	6.52	7.88	--	NOT SAMPLED DUE TO INSUFFICIENT WATER					--	--
11/28/01	14.40	DRY	--	--	--	--	--	--	--	--	--
02/14/02	14.37	7.66	6.71	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 <sup>f</sup>	--
05/15/02	14.37	6.96	7.41	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 <sup>f</sup>	--
08/05/02	14.37	DRY	--	--	--	--	--	--	--	--	--
11/30/02	14.37	DRY	--	--	--	--	--	--	--	--	--
02/24-25/03 <sup>1</sup>	14.37	7.77	6.60	200	<50	8.0	<0.50	<0.50	<1.5	<2.5	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron (Signal Oil) Service Station #206145 (S-800)  
800 Center Street  
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	CUB (cfu/ml)
<b>MW-5</b>											
01/03/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/20/97	15.03	INACCESSIBLE		--	--	--	--	--	--	--	--
04/24/97	15.03	INACCESSIBLE		--	--	--	--	--	--	--	--
04/30/97	15.03	7.06	7.97	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/23/97	15.03	INACCESSIBLE		--	--	--	--	--	--	--	--
10/29/97	15.03	INACCESSIBLE		--	--	--	--	--	--	--	--
01/28/98	15.03	8.83	6.20	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/11/98	15.03	INACCESSIBLE		--	--	--	--	--	--	--	--
07/16/98	15.03	7.28	7.75	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
08/04/98	15.03	INACCESSIBLE		--	--	--	--	--	--	--	--
11/04/98	15.03	INACCESSIBLE		--	--	--	--	--	--	--	--
01/26/99	15.03	INACCESSIBLE		--	--	--	--	--	--	--	--
05/06/99	15.03	INACCESSIBLE		--	--	--	--	--	--	--	--
08/21/99	15.03	6.74	8.29	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
10/28/99	15.03	4.60	10.43	--	--	--	--	--	--	--	--
01/31/00	15.03	7.39	7.64	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/19/00	15.03	7.85	7.18	--	--	--	--	--	--	--	--
08/07/00	15.03	INACCESSIBLE		--	--	--	--	--	--	--	--
12/01/00	15.03	5.68	9.35	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50/<2.0 <sup>f</sup>	--
02/09/01	15.03	6.22	8.81	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5/<2.0 <sup>f</sup>	--
05/29/01	INACCESSIBLE - CAR PARKED OVER WELL			--	--	--	--	--	--	--	--
08/27/01	INACCESSIBLE - CAR PARKED OVER WELL			--	--	--	--	--	--	--	--
11/28/01	INACCESSIBLE - CAR PARKED OVER WELL			--	--	--	--	--	--	--	--
02/14/02	15.01	7.96	7.05	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 <sup>f</sup>	--
05/15/02	15.01	7.23	7.78	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 <sup>f</sup>	--
08/05/02	15.01	6.13	8.88	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 <sup>f</sup>	--
11/30/02	15.01	5.27	9.74	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 <sup>f</sup>	--
02/24-25/03 <sup>1</sup>	15.01	7.99	7.02	<50	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--



**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron (Signal Oil) Service Station #206145 (S-800)  
800 Center Street  
Oakland, California

WELL ID/ DATE	TOC* ( <i>ft.</i> )	GWE ( <i>msl</i> )	DTW ( <i>ft.</i> )	TPH-D ( <i>ppb</i> )	TPH-G ( <i>ppb</i> )	B ( <i>ppb</i> )	T ( <i>ppb</i> )	E ( <i>ppb</i> )	X ( <i>ppb</i> )	MTBE ( <i>ppb</i> )	CUB ( <i>cfu/ml</i> )	
MW-6												
01/03/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	
02/20/97	14.73	8.11	6.62	--	800	310	23	11	28	<12	--	
04/24/97	14.73	7.13	7.60	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	
07/23/97	14.73	5.73	9.00	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	
10/29/97	14.73	4.98	9.75	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	
01/28/98	14.73	8.19	6.54	--	160	38	<0.5	<0.5	<0.5	<2.5	--	
05/11/98	14.73	8.08	6.65	--	1,700	490	72	39	52	<25	--	
07/16/98	14.73	7.04	7.69	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	
08/04/98 <sup>d</sup>	14.73	6.89	7.84	--	--	--	--	--	--	--	8.6 x 10 <sup>3</sup>	
09/03/98 <sup>a</sup>	14.73	6.24	8.49	--	--	--	--	--	--	--	2.9 x 10 <sup>3</sup>	
10/21/98 <sup>b</sup>	14.73	5.46	9.27	--	--	--	--	--	--	--	1.8 x 10 <sup>3</sup>	
11/04/98	14.73	5.52	9.21	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	
01/26/99	14.73	6.49	8.24	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--	
05/06/99	14.73	7.91	6.82	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	
08/21/99	14.73	7.93	6.80	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	
10/28/99	14.73	5.27	9.46	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	
01/31/00	14.73	7.16	7.57	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	
05/19/00	14.73	7.60	7.13	--	<50	11	<0.5	<0.5	<0.5	<2.5	--	
08/07/00	14.73	6.22	8.51	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5/<2.0 <sup>f</sup>	--	
12/01/00	14.73	DRY	--	--	--	--	--	--	--	--	--	
02/09/01	14.73	DRY	--	--	--	--	--	--	--	--	--	
05/29/01	14.73	6.63	8.10	--	NOT SAMPLED DUE TO INSUFFICIENT WATER						--	--
08/27/01 <sup>h</sup>	14.73	9.83	4.90	--	150	<0.50	5.7	<0.50	<0.50	--<5.0 <sup>f</sup>	--	
11/28/01	14.73	DRY	--	--	--	--	--	--	--	--	--	
02/14/02	14.68	7.90	6.78	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	
05/15/02	14.68	7.32	7.36	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	
08/05/02	14.68	DRY	--	--	--	--	--	--	--	--	--	
11/30/02	14.68	DRY	--	--	--	--	--	--	--	--	--	
02/24-25/03 <sup>i</sup>	14.68	7.89	6.79	<50	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron (Signal Oil) Service Station #206145 (S-800)  
800 Center Street  
Oakland, California

WELL ID/ DATE	TOC* (ft)	GWE (msl)	DTW (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	CUB (cfu/ml)
<b>MW-7</b>											
01/03/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/20/97	16.36	8.86	7.50	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/24/97	16.36	7.59	8.77	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/23/97	16.36	6.09	10.27	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/29/97	16.36	5.28	11.08	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/28/98	16.36	9.10	7.26	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/11/98	16.36	9.11	7.25	--	SAMPLED ANNUALLY		--	--	--	--	--
07/16/98	16.36	8.00	8.36	--	--	--	--	--	--	--	--
08/04/98 <sup>a</sup>	16.36	7.32	9.04	--	--	--	--	--	--	--	1.5 x 10 <sup>3</sup>
09/03/98 <sup>a</sup>	16.36	6.65	9.71	--	--	--	--	--	--	--	6.5 x 10 <sup>2</sup>
10/21/98 <sup>b</sup>	16.36	5.96	10.40	--	--	--	--	--	--	--	4.8 x 10 <sup>3</sup>
11/04/98	16.36	5.89	10.47	--	--	--	--	--	--	--	--
01/26/99	16.36	8.25	8.11	--	<50	<0.5	<0.5	<0.5	0.5	<2.0	--
05/06/99	16.36	8.47	7.89	--	--	--	--	--	--	--	--
08/21/99	16.36	8.51	7.85	--	--	--	--	--	--	--	--
10/28/99	16.36	6.04	10.32	--	--	--	--	--	--	--	--
01/31/00	16.36	7.57	8.79	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/19/00	16.36	UNABLE TO LOCATE		--	--	--	--	--	--	--	--
08/07/00	16.36	6.67	9.69	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5/<2.0 <sup>f</sup>	--
12/01/00	16.36	5.84	10.52	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
02/09/01	16.36	6.30	10.06	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
05/29/01	16.36	UNABLE TO LOCATE		--	--	--	--	--	--	--	--
08/27/01 <sup>h</sup>	16.36	6.02	10.34	--	<50	<0.50	<0.50	<0.50	<0.50	--/<5.0 <sup>f</sup>	--
11/28/01	16.36	6.09	10.27	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
02/14/02	16.31	8.21	8.10	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
05/15/02	16.31	7.41	8.90	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
08/05/02	16.31	6.26	10.05	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
11/30/02	16.31	5.39	10.92	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
02/24-25/03 <sup>i</sup>	16.31	8.30	8.01	<50	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron (Signal Oil) Service Station #206145 (S-800)  
800 Center Street  
Oakland, California

WELL ID/ DATE	TOC* ( <i>ft.</i> )	GWE ( <i>mst</i> )	DTW ( <i>ft.</i> )	TPH-D ( <i>ppb</i> )	TPH-G ( <i>ppb</i> )	B ( <i>ppb</i> )	T ( <i>ppb</i> )	E ( <i>ppb</i> )	X ( <i>ppb</i> )	MTBE ( <i>ppb</i> )	CUB ( <i>cfu/ml</i> )
<b>MW-8</b>											
02/14/02 <sup>ij</sup>	15.29	7.30	7.99	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 <sup>f</sup>	--
05/15/02 <sup>k</sup>	15.29	6.66	8.63	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
08/05/02 <sup>k</sup>	15.29	5.48	9.81	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
11/30/02 <sup>k</sup>	15.29	4.85	10.44	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
02/24-25/03 <sup>l</sup>	15.29	7.46	7.83	<50	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
<b>TRIP BLANK</b>											
02/20/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/24/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/23/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/29/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/28/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/11/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/16/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
11/04/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
01/26/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
05/06/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
01/31/00	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/19/00	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
08/07/00	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
12/01/00	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
02/09/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
05/29/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
08/27/01 <sup>h</sup>	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	--/ <5.0 <sup>f</sup>	--
<b>QA</b>											
11/28/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
02/14/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
05/15/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
08/05/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
11/30/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
02/24-25/03	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron (Signal Oil) Service Station #206145 (S-800)  
800 Center Street  
Oakland, California

**EXPLANATIONS:**

Groundwater monitoring data and laboratory analytical results prior to May 19, 2000 were compiled from reports prepared by Blaine Tech Services, Inc.

TOC = Top of Casing (ft.) = Feet	TPH-G = Total Petroleum Hydrocarbons as Gasoline B = Benzene T = Toluene E = Ethylbenzene X = Xylenes MTBE = Methyl tertiary butyl ether	CUB = Contaminate utilizing bacteria (cfu/ml) = Colony forming unit per milliliter (ppb) = Parts per billion -- = Not Measured/Not Analyzed QA = Quality Assurance/Trip Blank
GWE = Groundwater Elevation (msl) = Mean sea level DTW = Depth to Water TPH-D = Total Petroleum Hydrocarbons as Diesel		

- \* On February 18, 2003 MW-1A was surveyed using the previous benchmark. TOC elevations were surveyed on December March 4, 2002, by Virgil Chavez Land Surveying. The benchmark for the survey was a City of Oakland benchmark, #25-H monument disk in well casting in sidewalk at the northwest corner of 7th and Center. The latitude, longitude and coordinates are for top of casings and are based on the California State Coordinate System, Zone III (NAD83), (Benchmark Elevation = 10.784 feet NGVD 29).
- <sup>a</sup> Contaminate hydrocarbon utilizing bacteria plate count was run with diesel and jet fuel degraders.
- <sup>b</sup> Contaminate hydrocarbon utilizing bacteria plate count was run with gasoline degraders.
- <sup>c</sup> Confirmation run.
- <sup>d</sup> Chromatogram pattern indicates an unidentified hydrocarbon.
- <sup>e</sup> Laboratory report indicates gasoline C6-C12.
- <sup>f</sup> MTBE by EPA Method 8260.
- <sup>g</sup> Laboratory reports indicates weathered gasoline C6-C12.
- <sup>h</sup> TPH-G and BTEX by EPA Method 8260.
- <sup>i</sup> Well development performed.
- <sup>j</sup> TPH-D was detected at 130 ppb.
- <sup>k</sup> TPH-D was <50 ppb.
- <sup>l</sup> Well re-development performed.

**Table 2**  
**Field Measurements and Analytical Results**  
Former Chevron (Signal Oil) Service Station #206145 (S-800)  
800 Center Street  
Oakland, California

<b>WELL ID/ DATE</b>	<b>Pre-purge DO (mg/L)</b>	<b>Post-purge DO (mg/L)</b>	<b>Pre-purge ORP (mV)</b>	<b>Post-purge ORP (mV)</b>	<b>Total Alkalinity (ppb)</b>	<b>Ferrous Iron (ppb)</b>	<b>Nitrate as Nitrate (ppb)</b>	<b>Sulfate (ppb)</b>
<b>MW-1</b> 09/03/98	2.3	1.6	-90	-103	230,000	9,800	<1,000	6,100
<b>MW-2</b> 09/03/98	2.8	2.5	-206	-163	390,000	7,400	<1,000	21,000
<b>MW-3</b> 09/03/98	3.1	0.7	-124	-99	830,000	45,000	<1,000	10,000
<b>MW-4</b> 09/03/98	2.6	1.1	-190	-206	--	--	--	--
<b>MW-6</b> 09/03/98	2.6	3.2	-148	-167	94,000	62	28,000	47,000
<b>MW-7</b> 09/03/98	2.7	3.2	-207	-229	170,000	120	7,800	57,000

**EXPLANATIONS:**

Groundwater monitoring data and laboratory analytical results were compiled from reports prepared by Blaine Tech Services, Inc.

DO = Dissolved Oxygen

(mg/L) = Milligram per liter

ORP = Oxidation Reduction Potential

(mV) = Millivolts

(ppb) = Parts per billion

-- = Not Analyzed

**Table 3**  
**Groundwater Analytical Results - Oxygenate Compounds**  
Former Chevron (Signal Oil) Service Station #206145 (S-800)  
800 Center Street  
Oakland, California

WELL ID	DATE	METHANOL (ppm)	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
MW-1	08/07/00	--	<1,000	410	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
	12/01/00	--	<2,500	<250	<10	<10	<10	<10	<10	<10
	02/09/01	--	<500	340	<2.0	<2.0	<2.0	53	<2.0	<2.0
	05/29/01	--	<500	<20	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	08/27/01	<2.000	<200	230	<20	<20	<20	<20	<20	<20
	11/28/01	--	<500	130	<2	<2	<2	<2	<2	<2
	02/14/02	--	<500	<100	<2	<2	<2	<2	<2	<2
	05/15/02	--	<500	120	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
	08/05/02	--	<500	100	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
DESTROYED										
MW-2	08/07/00		<500	<100	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	08/27/01	--	--	--	<5.0	--	--	--	--	--
MW-3	08/07/00	--	<500	2,600	<10	<10	<10	<10	490	17
	02/09/01	--	<500	2,000	<2.0	<2.0	<2.0	35	<2.0	<2.0
	05/29/01	--	<500	1,700 <sup>1</sup>	<2.0	<2.0	<2.0	38	980 <sup>1</sup>	7.4
	08/27/01	<5.000	<250	1,300	<25	<25	<25	<25	380	<25
	11/28/01	--	<500	1,500	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	02/14/02	--	<500	<100	<2	<2	<2	<2	<2	<2
	05/15/02	--	<500	110	<2	<2	<2	<2	120	<2
	08/05/02	--	<1,000	1,400	<10	<10	<10	<10	670	<10
	11/30/02	--	<1,000	1,200	<10	<10	<10	<10	380	<10
MW-4	08/07/00	--	<500	<100	<2.0	<2.0	<2.0	<2.0	18	<2.0
	08/27/01	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	--	--	--
	11/28/01	DRY	--	--	--	--	--	--	--	--
	02/14/02	--	<500	<100	<2	<2	<2	<2	9	<2
	05/15/02	--	<500	<100	<2	<2	<2	<2	4	<2
	08/05/02	DRY	--	--	--	--	--	--	--	--
11/30/02	DRY	--	--	--	--	--	--	--	--	

**Table 3**  
**Groundwater Analytical Results - Oxygenate Compounds**  
Former Chevron (Signal Oil) Service Station #206145 (S-800)  
800 Center Street  
Oakland, California

WELL ID	DATE	METHANOL (ppm)	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
MW-5	12/01/00	--	<500	<50	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	02/09/01	--	<500	<50	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	08/27/01	INACCESSIBLE - CAR PARKED OVER WELL								
	11/28/01	INACCESSIBLE - CAR PARKED OVER WELL								
	02/14/02	--	<500	<100	<2	<2	<2	<2	<2	<2
	05/15/02	--	<500	<100	<2	<2	<2	<2	<2	<2
	08/05/02	--	<500	<100	<2	<2	<2	<2	<2	<2
	11/30/02	--	<500	<100	<2	<2	<2	<2	<2	<2
MW-6	08/07/00	--	<500	<100	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	08/27/01	--	--	--	<5.0	--	--	--	--	--
	11/30/02	DRY	--	--	--	--	--	--	--	--
MW-7	08/07/00	--	<500	<100	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	08/27/01	--	--	--	<5.0	--	--	--	--	--
MW-8	02/14/02	--	<500	<100	<2	<2	<2	<2	<2	<2

**Table 3**  
**Groundwater Analytical Results - Oxygenate Compounds**  
Former Chevron (Signal Oil) Service Station #206145 (S-800)  
800 Center Street  
Oakland, California

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**EXPLANATIONS:**

TBA = Tertiary butyl alcohol  
MTBE = Methyl tertiary butyl ether  
DIPE = Di-isopropyl ether  
ETBE = Ethyl tertiary butyl ether  
TAME = Tertiary amyl methyl ether  
1,2-DCA = 1,2-Dichloroethane  
EDB = 1,2-Dibromoethane  
(ppm) = Parts per million  
(ppb) = Parts per billion  
-- = Not Analyzed

**ANALYTICAL METHODS:**

EPA Method 8260 (modified) for Methanol  
EPA Method 8260 for Oxygenate Compounds

<sup>1</sup> Laboratory report indicates this sample was originally analyzed within holding time. Re-analysis for confirmation or dilution was performed past the recommended holding time.



## STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. Prior to sample collection, the type of analysis to be performed is determined. Loss prevention of volatile compounds is controlled and sample preservation for subsequent analysis is maintained.

Prior to well development, each well is monitored for the presence of free-phase hydrocarbons and the depth to water is recorded. Wells are then developed by alternately surging the well with the bailer, then purging the well with a pump to remove accumulated sediments and draw groundwater into the well. Development continues until the groundwater parameters (temperature, pH, and conductivity) have stabilized.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells.

After water levels are collected and prior to sampling, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging. Purging continues until these parameters stabilize.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Chevron Products Company, the purge water and decontamination water generated during sampling activities is transported by IWM to McKittrick Waste Management located in McKittrick, California.

## WELL MONITORING/DEVELOPMENT FIELD DATA SHEET

Client/Facility #: ChevronTexaco #206145  
 Site Address: 800 Center Street  
 City: Oakland, CA

Job Number: 386492  
 Event Date: 02-24-03  
 Sampler: DM

Well ID: MW-1A      Date Monitored: 02-24-03      Well Condition: OK  
 Well Diameter: 2 in.  
 Initial Total Depth: 116.75 ft.  
 Final Total Depth: 116.83 ft.  
 Depth to Water: 7.32 ft.

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

9.43 xVF .17 = 1.60 <sup>x10</sup> (case volume) = Estimated Purge Volume: 16.30 gal.

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer /  
 Stack Pump \_\_\_\_\_  
 Suction Pump /  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer /  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1350      Weather Conditions: Cloudy  
 Sample Time/Date: 1440 02-24-03      Water Color: slightly cloudy (brown)      Odor: NO  
 Purging Flow Rate: 1.5 gpm.      Sediment Description: silty  
 Did well de-water? NO      If yes, Time: \_\_\_\_\_      Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1353</u>	<u>3</u>	<u>8.92</u>	<u>433</u>	<u>15.9</u>	_____	_____
<u>1355</u>	<u>6</u>	<u>8.87</u>	<u>420</u>	<u>15.8</u>	_____	_____
<u>1358</u>	<u>9</u>	<u>8.93</u>	<u>417</u>	<u>15.8</u>	_____	_____
<u>1406</u>	<u>12</u>	<u>9.06</u>	<u>419</u>	<u>15.9</u>	_____	_____
<u>1404</u>	<u>15</u>	<u>9.08</u>	<u>421</u>	<u>15.7</u>	_____	_____
<u>1407</u>	<u>18</u>	<u>9.09</u>	<u>422</u>	<u>15.9</u>	_____	_____
<u>1410</u>	<u>21</u>	<u>9.11</u>	<u>421</u>	<u>16.0</u>	_____	_____
<u>1413</u>	<u>24</u>	<u>9.13</u>	<u>435</u>	<u>16.2</u>	_____	_____
<u>1416</u>	<u>27</u>	<u>9.07</u>	<u>437</u>	<u>15.8</u>	_____	_____
<u>1420</u>	<u>30</u>	<u>9.04</u>	<u>422</u>	<u>16.2</u>	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1A</u>	<u>3 x vov vial</u>	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-G(8015)/BTX+MTBE(8021)</u>
<u>MW-1A</u>	<u>2 x amber</u>	<u>YES</u>	<u>NP</u>	<u>LANCASTER</u>	<u>TPH-D</u>

COMMENTS: Hand bailed 10 gallons cleaned up good.

Add/Replaced Lock: \_\_\_\_\_      Add/Replaced Plug: \_\_\_\_\_      Size: \_\_\_\_\_

## WELL MONITORING/DEVELOPMENT FIELD DATA SHEET

Client/Facility #: ChevronTexaco #206145 Job Number: 386492  
 Site Address: 800 Center Street Event Date: 02.24.03  
 City: Oakland, CA Sampler: DMA

Well ID: MW-2 Date Monitored: 02.24.03 Well Condition: O.K.  
 Well Diameter: 2 in.  
 Initial Total Depth: 10.35 ft.  
 Final Total Depth: 14.39 ft.  
 Depth to Water: 7.65 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

$2.70 \times VF .17 = 0.45 \times 10$  (case volume) = Estimated Purge Volume: 4.5 gal. *purged 30 gallons*

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer   
 Stack Pump \_\_\_\_\_  
 Suction Pump   
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer   
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1240 Weather Conditions: Cloudy  
 Sample Time/Date: 1320 02/24/02 Water Color: Watery (Brown) Odor: No  
 Purging Flow Rate: 1.5 gpm. Sediment Description: Silt  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (CF)	D.O. (mg/L)	ORP (mV)
1243	3	7.42	758	19.8		
1245	6	7.33	750	19.9		
1248	9	7.25	752	19.4		
1250	12	7.19	754	19.6		
1253	15	7.02	751	20.0		
1255	18	6.89	759	20.1		
1258	21	6.81	750	19.8		
1300	24	6.78	748	19.4		
1304	27	6.73	743	19.9		
1307	30	6.69	741	20.2		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-2	3 x vov vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8021)
MW-2	2 x amber	YES	NP	LANCASTER	TPH-D

COMMENTS: Hand bailed 22 1/2 gallons with stainless steel bailer, a lot of silt and sand.

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_

# WELL MONITORING/DEVELOPMENT FIELD DATA SHEET

Client/Facility #: ChevronTexaco #206145  
 Site Address: 800 Center Street  
 City: Oakland, CA

Job Number: 386492  
 Event Date: 02-24-03 - 02-25-03  
 Sampler: DMA

Well ID: MW-3  
 Well Diameter: 2 in.  
 Initial Total Depth: 13.43 ft.  
 Final Total Depth: 14.55 ft.  
 Depth to Water: 7.51 ft.  
7.04 xVF .17 = 1.19 <sup>10</sup> x<sub>B</sub> (case volume) = Estimated Purge Volume: 12 x 30 gal.

Date Monitored: 02-24-03

Well Condition: O.K

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer /  
 Stack Pump \_\_\_\_\_  
 Suction Pump /  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer /  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1420 Weather Conditions: Sunny  
 Sample Time/Date: 1500 02-25-03 Water Color: slightly grey Odor: YES  
 Purging Flow Rate: 2 gpm. Sediment Description: silty  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
1422	3	6.50	885	19.1		
1427	6	6.23	882	21.9		
1427	9	6.22	881	22.3		
1430	12	6.24	859	20.7		
1432	15	6.23	863	20.9		
1435	18	6.19	862	21.3		
1437	21	6.21	859	21.6		
1440	24	6.27	858	21.4		
1442	27	6.23	853	21.2		
1445	30	6.20	854	21.5		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-3	3 x vov vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8021)
MW-3	2 x amber	YES	NP	LANCASTER	TPH-D

COMMENTS: Hand bailed 15 gallons, well keeps having silt run into it as I bail.

Add/Replaced Lock: \_\_\_\_\_

Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_

## WELL MONITORING/DEVELOPMENT FIELD DATA SHEET

Client/Facility #: ChevronTexaco #206145  
 Site Address: 800 Center Street  
 City: Oakland, CA

Job Number: 386492  
 Event Date: 02-24-03-02-25-03  
 Sampler: DM

Well ID: MW-4  
 Well Diameter: 2 in.  
 Initial Total Depth: 8.73 ft.  
 Final Total Depth: 15.41 ft.  
 Depth to Water: 6.60 ft.  
2.13 xVF .17 = 0.36 x<sup>10</sup> (case volume) = Estimated Purge Volume: 4+30 gal.

Date Monitored: 02-24-03 Well Condition: OK

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

**Purge Equipment:**  
 Disposable Bailer:   /    
 Stainless Steel Bailer:   /    
 Stack Pump:   /    
 Suction Pump:   /    
 Grundfos:   /    
 Other:   /  

**Sampling Equipment:**  
 Disposable Bailer:   /    
 Pressure Bailer:   /    
 Discrete Bailer:   /    
 Other:   /  

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbent Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1520 Weather Conditions: Cloudy  
 Sample Time/Date: 1615 02-24-03 Water Color: Cloudy (grey) Odor: No  
 Purging Flow Rate: 2 gpm. Sediment Description: Silty  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
1524	3	7.56	517	18.0		
1526	6	7.34	534	20.3		
1529	9	7.24	534	22.9		
1533	12	7.16	539	21.6		
1537	15	7.15	541	20.9		
1540	18	7.10	525	22.2		
1542	21	7.01	522	23.1		
1546	24	6.82	523	24.3		
1549	27	6.74	527	24.2		
1552	30	6.69	529	22.6		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-4	3 x vov vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8021)
MW-4	2 x amber	YES	NP	LANCASTER	TPH-D

COMMENTS: Hand bailed 17 gallons with stainless steel bailer before purging;

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_

# WELL MONITORING/DEVELOPMENT FIELD DATA SHEET

Client/Facility #: ChevronTexaco #206145  
 Site Address: 800 Center Street  
 City: Oakland, CA

Job Number: 386492  
 Event Date: 02.24.03-02.25.03  
 Sampler: D.M.

Well ID: MW-5  
 Well Diameter: 2 in.  
 Initial Total Depth: 19.04 ft.  
 Final Total Depth: 19.35 ft.  
 Depth to Water: 7.02 ft.

Date Monitored: 02.24.03 Well Condition: O.K.

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

12.33 xVF .17 = 2.09 <sup>x10</sup> (case volume) = Estimated Purge Volume: 21 gal.

**Purge Equipment:**  
 Disposable Bailer         
 Stainless Steel Bailer   /    
 Stack Pump         
 Suction Pump   /    
 Grundfos         
 Other:       

**Sampling Equipment:**  
 Disposable Bailer   /    
 Pressure Bailer         
 Discrete Bailer         
 Other:       

Time Started:        (2400 hrs)  
 Time Bailed:        (2400 hrs)  
 Depth to Product:        ft  
 Depth to Water:        ft  
 Hydrocarbon Thickness:        ft  
 Visual Confirmation/Description:         
 Skimmer / Absorbent Sock (circle one)  
 Amt Removed from Skimmer:        gal  
 Amt Removed from Well:        gal  
 Product Transferred to:       

Start Time (purge): 1215 Weather Conditions: Partly Cloudy but Sunny  
 Sample Time/Date: 1300 02.25.03 Water Color: Cloudy (light brown) Odor: No  
 Purging Flow Rate: 2 gpm. Sediment Description: NO silt  
 Did well de-water? No If yes, Time:        Volume:        gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
1218	2	6.58	457	18.2		
1220	4	6.59	440	18.8		
1222	6	6.65	503	20.1		
1224	8	6.63	505	19.2		
1226	10	6.62	510	19.4		
1229	12	6.63	507	19.6		
1231	14	6.67	505	19.5		
1233	16	6.64	509	19.9		
1237	18	6.86	504	20.4		
1240	21	6.85	512	19.7		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-5	3 x vov vial	YES	HCL	LANCASTER	TPH-G(8015)/BTX+MTBE(8021)
MW-5	2 x amber	YES	NP	LANCASTER	TPH-D

COMMENTS: Not very much silt had bailed 7 gallons.

Add/Replaced Lock:        Add/Replaced Plug:        Size:

## WELL MONITORING/DEVELOPMENT FIELD DATA SHEET

Client/Facility #: ChevronTexaco #206145 Job Number: 386492  
 Site Address: 800 Center Street Event Date: 02-24-03-02-25-03  
 City: Oakland, CA Sampler: DM

Well ID: MW-6 Date Monitored: 02-24-02 Well Condition: OK  
 Well Diameter: 2 in.  
 Initial Total Depth: 8.45 ft.  
 Final Total Depth: 16.50 ft.  
 Depth to Water: 6.74 ft.  
9.71 xVF 17 = 1.65 x10 (case volume) = Estimated Purge Volume 16 1/2 to 30 gal.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

**Purge Equipment:**  
 Disposable Bailor \_\_\_\_\_  
 Stainless Steel Bailor ✓  
 Stack Pump \_\_\_\_\_  
 Suction Pump ✓  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailor ✓  
 Pressure Bailor \_\_\_\_\_  
 Discrete Bailor \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1100 Weather Conditions: Partly Cloudy but Sunny  
 Sample Time/Date: 1145 02-25-03 Water Color: Clear Odor: NO  
 Purging Flow Rate: 2 gpm. Sediment Description: -  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1103</u>	<u>3</u>	<u>7.07</u>	<u>283</u>	<u>19.4</u>		
<u>1106</u>	<u>6</u>	<u>6.86</u>	<u>289</u>	<u>20.5</u>		
<u>1109</u>	<u>9</u>	<u>6.74</u>	<u>286</u>	<u>21.5</u>		
<u>1113</u>	<u>12</u>	<u>6.73</u>	<u>290</u>	<u>21.0</u>		
<u>1115</u>	<u>15</u>	<u>6.71</u>	<u>291</u>	<u>21.3</u>		
<u>1118</u>	<u>18</u>	<u>6.62</u>	<u>298</u>	<u>21.3</u>		
<u>1120</u>	<u>21</u>	<u>6.64</u>	<u>294</u>	<u>21.2</u>		
<u>1123</u>	<u>24</u>	<u>6.62</u>	<u>293</u>	<u>21.0</u>		
<u>1126</u>	<u>27</u>	<u>6.57</u>	<u>299</u>	<u>21.4</u>		
<u>1129</u>	<u>30</u>	<u>6.43</u>	<u>306</u>	<u>21.2</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-6</u>	<u>3 x vovial</u>	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-G(8015)/BTEX+MTBE(8021)</u>
<u>MW-6</u>	<u>2 x amber</u>	<u>YES</u>	<u>NP</u>	<u>LANCASTER</u>	<u>TPH-D</u>

COMMENTS: Some vegetation had. Well blocked up haul bucket 15 gallons before purging. Well cleaned up good.

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_

## WELL MONITORING/DEVELOPMENT FIELD DATA SHEET

Client/Facility #: ChevronTexaco #206145  
 Site Address: 800 Center Street  
 City: Oakland, CA

Job Number: 386492  
 Event Date: 02-24-03-02-25-03  
 Sampler: DMA

Well ID: MW-7  
 Well Diameter: 2 in.  
 Initial Total Depth: 18.10 ft.  
 Final Total Depth: ~~19.35~~ 19.35 ft.  
 Depth to Water: 9.01 ft.

Date Monitored: 02-24-03 Well Condition: OK

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

11.32 xVF .17 = 1.92 <sup>x10</sup> (case volume) = Estimated Purge Volume: 19.2 to 30 gal.

**Purge Equipment:**  
 Disposable Bailor \_\_\_\_\_  
 Stainless Steel Bailor ✓  
 Stack Pump \_\_\_\_\_  
 Suction Pump ✓  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailor ✓  
 Pressure Bailor \_\_\_\_\_  
 Discrete Bailor \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1330 Weather Conditions: Sunny  
 Sample Time/Date: 1405 02-25-03 Water Color: Cloudy (Brown) Odor: No  
 Purging Flow Rate: 2 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
1333	5	7.10	348	17.8		
1337	6	6.97	331	18.5		
1340	9	6.96	332	20.2		
1342	12	6.94	333	20.1		
1345	15	6.93	337	19.4		
1348	18	6.92	332	20.1		
1350	21	6.90	334	20.4		
1353	24	6.89	336	20.5		
1355	27	6.93	334	20.3		
1358	30	6.91	331	20.7		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-7	3 x vov vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8021)
MW-7	2 x amber	YES	NP	LANCASTER	TPH-D

COMMENTS: Hand lifted 9 1/2 gallons, over 1 foot of silt & sand removed from well.

Add/Replaced Lock: \_\_\_\_\_

Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# WELL MONITORING/DEVELOPMENT FIELD DATA SHEET

Client/Facility #: ChevronTexaco #206145 Job Number: 386492  
 Site Address: 800 Center Street Event Date: 02.24.03  
 City: Oakland, CA Sampler: DM.

Well ID: MW-8 Date Monitored: 02.24.03 Well Condition: OK  
 Well Diameter: 2 in.  
 Initial Total Depth: 20.03 ft.  
 Final Total Depth: 20.24 ft.  
 Depth to Water: 7.83 ft.  
 $12.20 \times VF \cdot 17 = 2.07 \times 10$  (case volume) = Estimated Purge Volume: 20 gal.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer /  
 Stack Pump \_\_\_\_\_  
 Suction Pump /  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer /  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 0950 Weather Conditions: Partly Cloudy  
 Sample Time/Date: 1030 02.25.03 Water Color: Cloudy (light brown) Odor: N.O.  
 Purging Flow Rate: 2 gpm. Sediment Description: NO silt  
 Did well de-water? N/O If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
0952	2	7.43	446	19.4		
0954	4	7.20	435	20.6		
0956	6	7.12	426	21.9		
0959	8	7.08	424	21.7		
1001	10	7.09	418	22.6		
1003	12	7.08	418	22.8		
1006	14	7.06	425	23.6		
1008	16	7.05	418	22.0		
1010	16	7.03	422	23.0		
1012	20	7.02	424	22.5		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-8	3 x vov vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8021)
MW-8	2 x amber	YES	NP	LANCASTER	TPH-D

COMMENTS: well cleaned up great.

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_

# Chevron California Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only  
 Acct. #: 10904 Sample #: 4002202-10 SCR#: 842836

022603 - 001

Facility #: SS#206145 G-R#386492 Global ID#T0600102230  
 Site Address: 800 CENTER ST. OAKLAND, CA  
 Chevron PM: KS Lead Consultant: CAMBRIA  
 Consultant/Office: G-R, Inc., 6747 Sierra Court, Suite J, Dublin, Ca. 94568  
 Consultant Prj. Mgr.: Deanna L. Harding (deanna@grinc.com)  
 Consultant Phone #: 925-551-7555 Fax #: 925-551-7899  
 Sampler: David Moreno  
 Service Order #: \_\_\_\_\_  Non SAR: \_\_\_\_\_

Matrix		Analyses Requested									
		Preservation Codes									
Soil	Water	Oil	Air	Total Number of Containers	#	#					
					<input type="checkbox"/> Potable	<input type="checkbox"/> NPDES				BTEX + MTBE 8260	TPH 8015 MOD GRO
					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Preservative Codes**  
 H = HCl      T = Thiosulfate  
 N = HNO<sub>3</sub>    B = NaOH  
 S = H<sub>2</sub>SO<sub>4</sub>   O = Other

J value reporting needed  
 Must meet lowest detection limits possible for 8260 compounds

**8021 MTBE Confirmation**  
 Confirm highest hit by 8260  
 Confirm all hits by 8260  
 Run \_\_\_ oxy s on highest hit  
 Run \_\_\_ oxy s on all hits

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX + MTBE 8260	TPH 8015 MOD GRO	TPH 8015 MOD DRO	8260 full scan	Oxygenates	Lead 7420	7421
<i>QA</i>																
<i>MW-1R</i>	<i>02-24-03</i>	<i>1440</i>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<i>2</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
<i>MW-2</i>	<i>02-24-03</i>	<i>1320</i>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<i>5</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
<i>MW-3</i>	<i>02-25-03</i>	<i>1500</i>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<i>5</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
<i>MW-4</i>	<i>02-24-03</i>	<i>1615</i>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<i>5</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
<i>MW-5</i>	<i>02-25-03</i>	<i>1300</i>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<i>5</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
<i>MW-10</i>	<i>02-25-03</i>	<i>1145</i>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<i>5</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
<i>MW-7</i>	<i>02-25-03</i>	<i>1405</i>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<i>5</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
<i>MW-6</i>	<i>02-25-03</i>	<i>1030</i>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<i>5</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				

**Comments / Remarks**

**Turnaround Time Requested (TAT) (please circle)**

72 hour       48 hour  
 24 hour       4 day       5 day

**Data Package Options (please circle if required)**

QC Summary       Type I - Full  
 Type VI (Raw Data)       Coelt Deliverable not needed  
 WIP (RWQCB)  
 Disk

Relinquished by: <i>David Moreno</i>	Date: <i>02-25-03</i>	Time: <i>1630</i>	Received by: <i>DJ</i>	Date: <i>02-26-03</i>	Time: <i>2140</i>
Relinquished by: <i>DJ</i>	Date: <i>02-26-03</i>	Time: <i>1330</i>	Received by: <i>Archives Amaze</i>	Date: <i>2-26-03</i>	Time: <i>1330</i>
Relinquished by: <i>Archives Amaze</i>	Date: <i>2-26-03</i>	Time: <i>1530</i>	Received by: <i>Airborne</i>	Date: <i>2-26-03</i>	Time: <i>2140</i>
Relinquished by Commercial Carrier: <i>Airborne</i>	UPS	FedEx	Other: <i>Airborne</i>	Received by: <i>Dennis Miller</i>	Date: <i>2/27/03</i> Time: <i>0920</i>
Temperature Upon Receipt: <i>15 - 25°</i>	Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				



## ANALYTICAL RESULTS

Prepared for:

ChevronTexaco  
6001 Bollinger Canyon Rd L4310

San Ramon CA 94583  
925-842-8582

Prepared by:

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

RECEIVED

GETTLER-RYAN, INC.  
GENERAL CONTRACTORS

## SAMPLE GROUP

The sample group for this submittal is 842836. Samples arrived at the laboratory on Thursday, February 27, 2003. The PO# for this group is 99011184 and the release number is STREICH.

<u>Client Description</u>		<u>Lancaster Labs Number</u>
QA-T-03022425	NA Water	4002202
MW-1A-W-030224	Grab Water	4002203
MW-2-W-030224	Grab Water	4002204
MW-3-W-030225	Grab Water	4002205
MW-4-W-030224	Grab Water	4002206
MW-5-W-030225	Grab Water	4002207
MW-6-W-030225	Grab Water	4002208
MW-7-W-030225	Grab Water	4002209
MW-8-W-030225	Grab Water	4002210

1 COPY TO

Cambria C/O Gettler- Ryan

Attn: Deanna L. Harding





Questions? Contact your Client Services Representative  
Teresa L Cunningham at (717) 656-2300.

Respectfully Submitted,

A handwritten signature in black ink, appearing to read "E. A. Smith".

Elizabeth A. Smith  
Senior Chemist



Lancaster Laboratories Sample No. WW 4002202

Collected: 02/24/2003 00:00  
through 02/25/2003 00:00  
Submitted: 02/27/2003 09:20  
Reported: 03/12/2003 at 17:20  
Discard: 04/12/2003  
QA-T-03022425 NA Water

Account Number: 10904  
ChevronTexaco  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

Facility# 206145 Job# 386492 GRD  
800 Center St-Oakland T0600102230 QA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
02159	BTEX, MTBE					
02161	Benzene	71-43-2	N.D.	0.50	ug/l	1
02164	Toluene	108-88-3	N.D.	0.50	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1

State of California Lab Certification No. 2116

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	03/01/2003 03:51	Jamie A Lutz	1
02159	BTEX, MTBE	SW-846 8021B	1	03/01/2003 03:51	Jamie A Lutz	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/01/2003 03:51	Jamie A Lutz	n.a.





Lancaster Laboratories Sample No. WW 4002203

Collected: 02/24/2003 14:40 by DM

Account Number: 10904

Submitted: 02/27/2003 09:20  
Reported: 03/12/2003 at 17:20  
Discard: 04/12/2003  
MW-1A-W-030224ChevronTexaco  
6001 Bollinger Canyon Rd L4310

Grab Water

San Ramon CA 94583

Facility# 206145 Job# 386492 GRD  
800 Center St-Oakland T0600102230 MW-1A

CSO-1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	n.a.	4,600.	250.	ug/l	10
According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons).						
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	5,100.	50.	ug/l	1
The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.						
02159	BTEX, MTBE					
02161	Benzene	71-43-2	92.	0.50	ug/l	1
02164	Toluene	108-88-3	340.	0.50	ug/l	1
02166	Ethylbenzene	100-41-4	66.	0.50	ug/l	1
02171	Total Xylenes	1330-20-7	480.	1.5	ug/l	1
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	10.	ug/l	1
Due to the presence of an interferent near its retention time, the normal reporting limit was not attained for MTBE. The presence or concentration of this compound cannot be determined due to the presence of this interferent.						

Due to the nature of the sample matrix, the surrogate standard recovery is above the range of specifications.

State of California Lab Certification No. 2116

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	CALUFT-DRO/8015B, Modified	2	03/06/2003 07:52	Tracy A Cole	10
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	03/01/2003 00:36	Jamie A Lutz	1
02159	BTEX, MTBE	SW-846 8021B	1	03/01/2003 00:36	Jamie A Lutz	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/01/2003 00:36	Jamie A Lutz	n.a.

Lancaster Laboratories, Inc.  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 4002203

Collected: 02/24/2003 14:40 by DM

Account Number: 10904

Submitted: 02/27/2003 09:20  
Reported: 03/12/2003 at 17:20  
Discard: 04/12/2003

ChevronTexaco  
6001 Bollinger Canyon Rd L4310

MW-1A-W-030224 Grab Water

San Ramon CA 94583

Facility# 206145 Job# 386492 GRD  
800 Center St-Oakland T0600102230 MW-1A

CSO-1									
07003	Extraction - DRO (Waters)	TPH by CA LUFT-	1	03/03/2003 09:30	Aubri L Peters				1
		DRO/8015B, mod							





Lancaster Laboratories Sample No. WW 4002204

Collected: 02/24/2003 13:20 by DM

Account Number: 10904

Submitted: 02/27/2003 09:20  
 Reported: 03/12/2003 at 17:20  
 Discard: 04/12/2003

ChevronTexaco  
 6001 Bollinger Canyon Rd L4310

MW-2-W-030224 Grab Water

San Ramon CA 94583

Facility# 206145 Job# 386492 GRD  
 800 Center St-Oakland T0600102230 MW-2

CSO-2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	n.a.	140.	50.	ug/l	1
According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons). Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.						
02159	BTEX, MTBE					
02161	Benzene	71-43-2	N.D.	0.50	ug/l	1
02164	Toluene	108-88-3	N.D.	0.50	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1
A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						

State of California Lab Certification No. 2116

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
05553	TPH - DRO CA LUFT (Waters)	CALUFT-DRO/8015B, Modified	1	03/06/2003 15:46	Tracy A Cole	1
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	03/04/2003 22:24	Melissa D Mann	1
02159	BTEX, MTBE	SW-846 8021B	1	03/04/2003 22:24	Melissa D Mann	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/04/2003 22:24	Melissa D Mann	n.a.
07003	Extraction - DRO (Waters)	TPH by CA LUFT-DRO/8015B, mod	1	03/03/2003 09:30	Aubri L Peters	1



Lancaster Laboratories, Inc.  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681





Lancaster Laboratories Sample No. **WW 4002205**

Collected: 02/25/2003 15:00 by DM

Account Number: 10904

Submitted: 02/27/2003 09:20  
 Reported: 03/12/2003 at 17:20  
 Discard: 04/12/2003  
 MW-3-W-030225

ChevronTexaco  
 6001 Bollinger Canyon Rd L4310

Grab Water

San Ramon CA 94583

Facility# 206145 Job# 386492 GRD  
 800 Center St-Oakland T0600102230 MW-3

CSO-3

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	n.a.	4,500.	520.	ug/l	20
According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons).						
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	52,000.	2,500.	ug/l	50
The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO start time.						
02159	BTEX, MTBE					
02161	Benzene	71-43-2	9,600.	25.	ug/l	50
02164	Toluene	108-88-3	4,800.	25.	ug/l	50
02166	Ethylbenzene	100-41-4	2,900.	25.	ug/l	50
02171	Total Xylenes	1330-20-7	4,100.	75.	ug/l	50
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	130.	ug/l	50
The reporting limits were raised because sample dilution was necessary to bring target compounds into the calibration range of the system.						

State of California Lab Certification No. 2116

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	CALUFT-DRO/8015B, Modified	2	03/06/2003 15:23	Tracy A Cole	20
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	03/01/2003 00:04	Jamie A Lutz	50
02159	BTEX, MTBE	SW-846 8021B	1	03/01/2003 00:04	Jamie A Lutz	50
01146	GC VOA Water Prep	SW-846 5030B	1	03/01/2003 00:04	Jamie A Lutz	n.a.
07003	Extraction - DRO (Waters)	TPH by CA LUFT-DRO/8015B, mod	1	03/03/2003 09:30	Aubri L Peters	1





Lancaster Laboratories Sample No. **WW 4002206**

Collected: 02/24/2003 16:15 by DM

Account Number: 10904

Submitted: 02/27/2003 09:20  
 Reported: 03/12/2003 at 17:20  
 Discard: 04/12/2003

ChevronTexaco  
 6001 Bollinger Canyon Rd L4310

MW-4-W-030224 Grab Water

San Ramon CA 94583

Facility# 206145 Job# 386492 GRD  
 800 Center St-Oakland T0600102230 MW-4

CSO-4

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	n.a.	200.	50.	ug/l	1
According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons).						
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.						
02159	BTEX, MTBE					
02161	Benzene	71-43-2	8.0	0.50	ug/l	1
02164	Toluene	108-88-3	N.D.	0.50	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1

State of California Lab Certification No. 2116

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	CALUFT-DRO/8015B, Modified	2	03/06/2003 12:23	Tracy A Cole	1
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	03/01/2003 04:56	Jamie A Lutz	1
02159	BTEX, MTBE	SW-846 8021B	1	03/01/2003 04:56	Jamie A Lutz	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/01/2003 04:56	Jamie A Lutz	n.a.
07003	Extraction - DRO (Waters)	TPH by CA LUFT-DRO/8015B, mod	1	03/03/2003 09:30	Aubri L Peters	1



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Lancaster Laboratories Sample No. WW 4002207

Collected: 02/25/2003 13:00 by DM

Account Number: 10904

Submitted: 02/27/2003 09:20  
 Reported: 03/12/2003 at 17:20  
 Discard: 04/12/2003

ChevronTexaco  
 6001 Bollinger Canyon Rd L4310

MW-5-W-030225 Grab Water

San Ramon CA 94583

Facility# 206145 Job# 386492 GRD  
 800 Center St-Oakland T0600102230 MW-5

CSO-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	n.a.	N.D.	50.	ug/l	1
According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons). Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.						
02159	BTEX, MTBE					
02161	Benzene	71-43-2	N.D.	0.50	ug/l	1
02164	Toluene	108-88-3	N.D.	0.50	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1

State of California Lab Certification No. 2116

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	CALUFT-DRO/8015B, Modified	1	03/05/2003 23:39	Tracy A Cole	1
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	03/01/2003 05:29	Jamie A Lutz	1
02159	BTEX, MTBE	SW-846 8021B	1	03/01/2003 05:29	Jamie A Lutz	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/01/2003 05:29	Jamie A Lutz	n.a.
07003	Extraction - DRO (Waters)	TPH by CA LUFT-DRO/8015B, mod	1	03/03/2003 09:30	Aubri L Peters	1





Lancaster Laboratories Sample No. **WW 4002208**

Collected: 02/25/2003 11:45 by DM

Account Number: 10904

Submitted: 02/27/2003 09:20  
 Reported: 03/12/2003 at 17:20  
 Discard: 04/12/2003

ChevronTexaco  
 6001 Bollinger Canyon Rd L4310

MW-6-W-030225 Grab Water

San Ramon CA 94583

Facility# 206145 Job# 386492 GRD  
 800 Center St-Oakland T0600102230 MW-6

CSO-6

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	n.a.	N.D.	50.	ug/l	1
According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons). Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.						
02159	BTEX, MTBE					
02161	Benzene	71-43-2	N.D.	0.50	ug/l	1
02164	Toluene	108-88-3	N.D.	0.50	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1

State of California Lab Certification No. 2116

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	CALUFT-DRO/8015B, Modified	1	03/06/2003 00:01	Tracy A Cole	1
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	03/01/2003 06:01	Jamie A Lutz	1
02159	BTEX, MTBE	SW-846 8021B	1	03/01/2003 06:01	Jamie A Lutz	1
01146	GC VOA Water Prep	SW-846 5030E	1	03/01/2003 06:01	Jamie A Lutz	n.a.
07003	Extraction - DRO (Waters)	TPH by CA LUFT-DRO/8015B, mod	1	03/03/2003 09:30	Aubri L Peters	1



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Lancaster Laboratories Sample No. WW 4002209

Collected: 02/25/2003 14:05 by DM

Account Number: 10904

Submitted: 02/27/2003 09:20

ChevronTexaco

Reported: 03/12/2003 at 17:20

6001 Bollinger Canyon Rd L4310

Discard: 04/12/2003

MW-7-W-030225

Grab

Water

San Ramon CA 94583

Facility# 206145 Job# 386492

GRD

800 Center St-Oakland

T0600102230 MW-7

CSO-7

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	n.a.	N.D.	50.	ug/l	1
According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons). Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.						
02159	BTEX, MTBE					
02161	Benzene	71-43-2	N.D.	0.50	ug/l	1
02164	Toluene	108-88-3	N.D.	0.50	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1

State of California Lab Certification No. 2116

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	CALUFT-DRO/8015B, Modified	1	03/06/2003 00:23	Tracy A Cole	1
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	03/01/2003 06:34	Jamie A Lutz	1
02159	BTEX, MTBE	SW-846 8021B	1	03/01/2003 06:34	Jamie A Lutz	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/01/2003 06:34	Jamie A Lutz	n.a.
07003	Extraction - DRO (Waters)	TPH by CA LUFT-DRO/8015B, mod	1	03/03/2003 09:30	Aubri L Peters	1



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Lancaster Laboratories Sample No. **WW 4002210**

Collected: 02/25/2003 10:30 by DM

Account Number: 10904

Submitted: 02/27/2003 09:20  
 Reported: 03/12/2003 at 17:20  
 Discard: 04/12/2003  
 MW-8-W-030225

ChevronTexaco  
 6001 Bollinger Canyon Rd L4310

Grab Water

San Ramon CA 94583

Facility# 206145 Job# 386492 GRD  
 800 Center St-Oakland T0600102230 MW-8

CSO-8

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	n.a.	N.D.	50.	ug/l	1
According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons). Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.						
02159	BTEX, MTBE					
02161	Benzene	71-43-2	N.D.	0.50	ug/l	1
02164	Toluene	108-88-3	N.D.	0.50	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1

State of California Lab Certification No. 2116

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date and Time			
05553	TPH - DRO CA LUFT (Waters)	CALUFT-DRO/8015B, Modified	3	03/12/2003	13:56	Tracy A Cole	1
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	03/01/2003	07:06	Jamie A Lutz	1
02159	BTEX, MTBE	SW-846 8021B	1	03/01/2003	07:06	Jamie A Lutz	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/01/2003	07:06	Jamie A Lutz	n.a.
07003	Extraction - DRO (Waters)	TPH by CA LUFT-DRO/8015B, mod	1	03/03/2003	09:30	Aubri L Peters	1



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## Quality Control Summary

Client Name: ChevronTexaco  
 Reported: 03/12/03 at 05:20 PM

Group Number: 842836

### Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 03059A55A	Sample number(s): 4002202-4002203, 4002205-4002210							
TPH-GRO - Waters	N.D.	50.	ug/l	113	129	70-130	13	30
Benzene	N.D.	.5	ug/l	92	93	80-118	1	30
Toluene	N.D.	.5	ug/l	96	97	82-119	1	30
Ethylbenzene	N.D.	.5	ug/l	97	98	81-119	1	30
Total Xylenes	N.D.	1.5	ug/l	98	99	82-120	1	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	102	103	79-127	1	30
Batch number: 030600011A	Sample number(s): 4002203-4002210							
TPH - DRO CA LUFT (Waters)	N.D.	50.	ug/l	90	96	54-120	7	20
Batch number: 03063A55A	Sample number(s): 4002204							
TPH-GRO - Waters	N.D.	50.	ug/l	86	87	70-130	1	30
Benzene	N.D.	.5	ug/l	89	92	80-118	4	30
Toluene	N.D.	.5	ug/l	95	96	82-119	1	30
Ethylbenzene	N.D.	.5	ug/l	96	98	81-119	2	30
Total Xylenes	N.D.	1.5	ug/l	97	98	82-120	2	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	101	100	79-127	1	30

### Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	BKG	DUP	DUP	Dup RPD Max
	%REC	%REC	Limits	RPD	MAX	Conc	RPD	Max
Batch number: 03059A55A	Sample number(s): 4002202-4002203, 4002205-4002210							
TPH-GRO - Waters	73	77	70-130	2				30
Benzene	(2)	(2)	67-136	2	20			
Toluene	94	88	78-129	6	30			
Ethylbenzene	75	70*	75-133	2	30			
Total Xylenes	96	91	86-132	4	30			
Methyl tert-Butyl Ether	(2)	(2)	66-136	1	30			
Batch number: 03063A55A	Sample number(s): 4002204							
TPH-GRO - Waters	96	109	70-130	6	30			
Benzene	97		67-136					
Toluene	102		78-129					
Ethylbenzene	103		75-133					
Total Xylenes	103		86-132					
Methyl tert-Butyl Ether	100		66-136					

### Surrogate Quality Control

Analysis Name: BTEX, MTBE  
 Batch number: 03059A55A

	Trifluorotoluene-F	Trifluorotoluene-P
4002202	101	115
4002203	131	144*
4002205	101	117

\*- Outside of specification

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





## Quality Control Summary

Client Name: ChevronTexaco  
Reported: 03/12/03 at 05:20 PM

Group Number: 842836

### Surrogate Quality Control

4002206	101	114
4002207	104	116
4002208	101	115
4002209	102	114
4002210	101	113
Blank	100	114
LCS	107	113
LCSD	106	113
MS	106	115
MSD	107	116

---

Limits: 57-146 66-136

Analysis Name: TPH - DRO CA LUPT (Waters)  
Batch number: 030600011A  
Orthoterphenyl

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4002203	81
4002204	98
4002205	90
4002206	83
4002207	88
4002208	90
4002209	89
4002210	95
Blank	90
LCS	93
LCSD	97

---

Limits: 59-139

Analysis Name: BTEX, MTBE  
Batch number: 03063A55A

Trifluorotoluene-F      Trifluorotoluene-P

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4002204	99	114
Blank	102	115
LCS	102	112
LCSD	100	112
MS	108	109
MSD	107	

---

Limits: 57-146 66-136

\*- Outside of specification

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



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