

Environmental Management  
Company  
6001 Bollinger Canyon Rd, L4050  
P.O. Box 6012  
San Ramon, CA 94583-2324  
Tel 925-842-1589  
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Karen Streich  
Project Manager

Alameda County

OCT 24 2003

Environmental Health

**ChevronTexaco**

~~October 22~~, 2003

Ro 233

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

Re: Chevron Service Station # 9-4612

Address: 3616 San Leandro Street, Oakland, CA

I have reviewed the attached routine groundwater monitoring report dated ~~October 7, 2003~~

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 Gettler-Ryan, Inc., 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.

Sincerely,



Karen Streich  
Project Manager

Enclosure: Report



# GETTLER - RYAN INC.

Alameda County

OCT 24 2003

Environmental Health

## TRANSMITTAL

October 7, 2003

G-R #386473

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

RE: **Former Chevron Service Station  
#9-4612  
3616 San Leandro Street  
Oakland, California**

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	October 3, 2003	Groundwater Monitoring and Sampling Report Third Quarter - Event of September 6, 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 **October 21, 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, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577  
Mr. Leonard B. Ratto, Ratto Land Company, P.O. Box 6104, Oakland, CA 94603-0104  
Mr. Terry McIlraith, 407 Castello Road, Lafayette, CA 94549

Enclosures

trans/9-4612-ks



# GETTLER - RYAN INC.

Alameda County

OCT 24 2003

Environmental Health

October 3, 2003  
G-R Job #386473

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

**RE: Third Quarter Event of September 6, 2003**  
Groundwater Monitoring & Sampling Report  
Former Chevron Service Station #9-4612  
3616 San Leandro Street  
Oakland, California

Dear Ms. Streich:

This report documents 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. Dissolved Oxygen Concentrations are presented in Table 2. A Potentiometric Map is included as Figure 1.

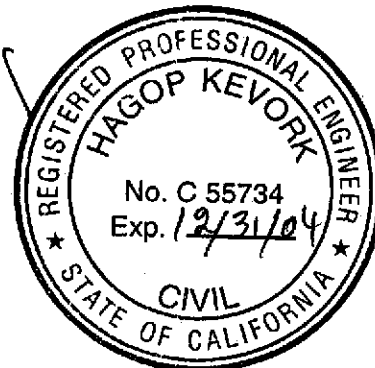
Groundwater samples were collected from the monitoring wells and submitted to a state certified laboratory for analyses. The field data sheets for this event are attached. Analytical results are presented in the table(s) listed below. The chain of custody document and laboratory analytical report are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

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

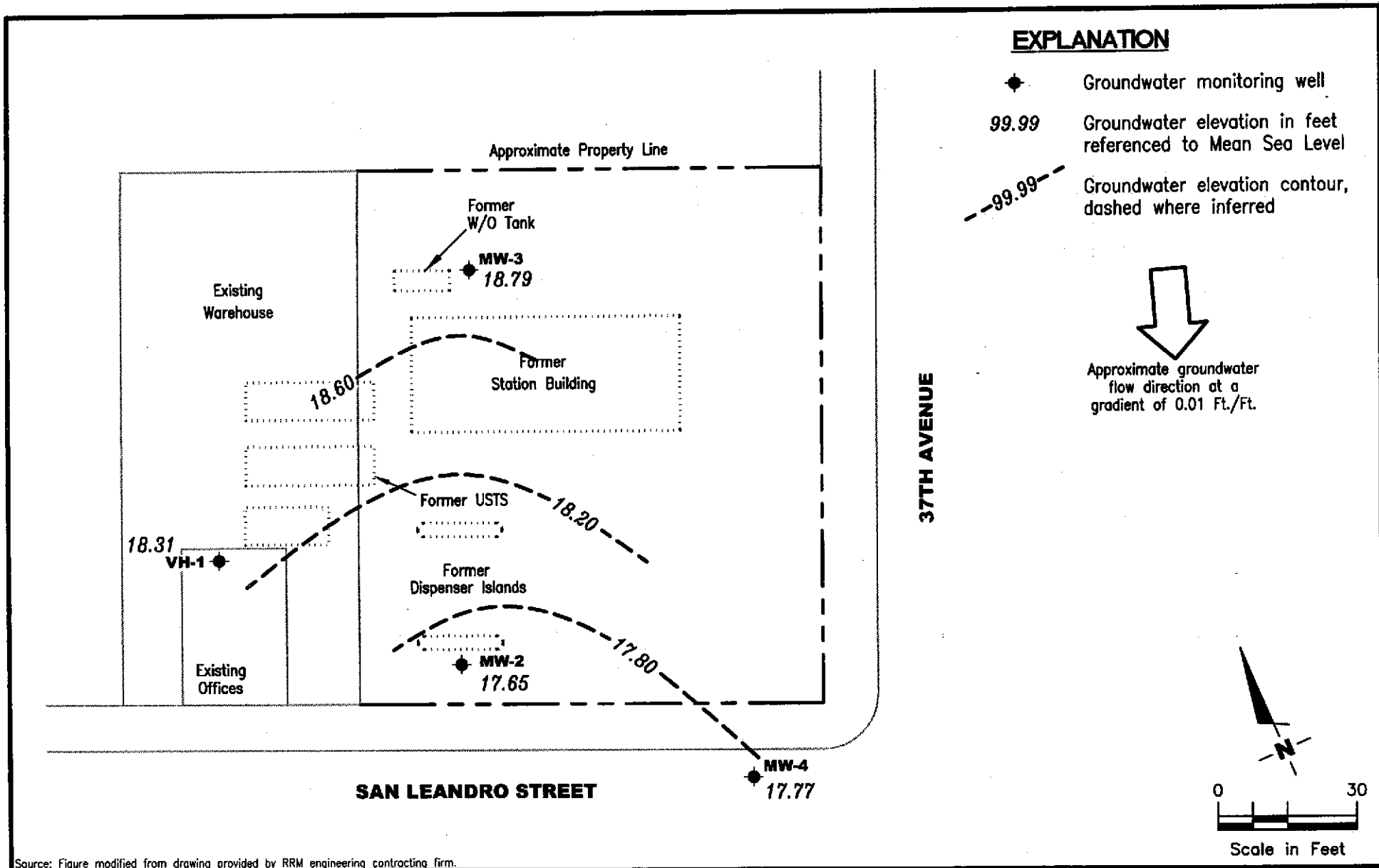
Sincerely,

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: Dissolved Oxygen Concentrations
- 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 Service Station #9-4612  
 3616 San Leandro Street  
 Oakland, California

FIGURE  
**1**

PROJECT NUMBER  
**386473**

REVIEWED BY

DATE  
 September 6, 2003

REVISED DATE

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station #9-4612  
3616 San Leandro Street  
Oakland, California

WELL ID/ DATE	TOC* (fl.)	GWE (msl)	DTW (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
<b>VH-1</b>											
08/10/88	--	--	13.00	--	11,000	3,300	200	520	540	--	--
06/01/89	--	--	10.32	--	15,000	2,200	120	540	310	--	--
09/15/89	--	--	15.69	--	5,600	1,900	90	350	160	--	--
12/08/89	--	--	14.77	--	11,000	1,900	69	270	99	--	--
03/07/91	--	--	11.26	--	4,500	820	39	120	77	--	--
09/24/91	--	--	12.98	--	3,300	520	19	39	27	--	--
01/08/92	--	--	13.77	--	5,000	600	34	81	76	--	--
04/20/92	--	--	8.18	--	7,400	670	60	110	140	--	--
03/26/93	27.85	21.14	6.71	--	4,900	600	40	72	94	--	--
05/27/93	27.85	19.27	8.58	--	13,000	1,600	120	230	220	--	--
08/18/93	27.85	17.39	10.46	--	2,700	210	10	8.1	18	--	--
11/03/93	27.85	15.28	12.57	--	4,600	680	42	35	68	--	--
02/10/94	27.85	18.77	9.08	--	1,900	260	19	22	29	--	--
05/12/94	27.85	19.76	8.09	--	2,000	390	28	3.9	29	--	--
08/26/94	27.85	17.10	10.75	--	4,900	500	<5.0	23	31	--	--
11/14/94	27.85	18.40	9.45	300	760	69	<2.0	<2.0	2.2	--	--
02/01/95	27.85	21.88	5.97	--	1,300	120	5.9	<0.5	13	--	--
05/12/95	27.85	20.14	7.71	--	4,400	460	31	45	49	--	--
08/22/95	27.85	18.59	9.26	--	2,900	310	15	28	32	--	--
12/19/95	27.85	19.05	8.80	--	930	53	<2.5	<2.5	<2.5	39	--
01/31/96	27.85	22.35	5.50	--	3,700	320	<10	41	40	180	--
04/30/96	27.85	19.81	8.04	--	3,900	270	<20	<20	<20	120	--
08/01/96	27.85	18.67	9.18	--	2,700	140	11	18	28	200	--
10/30/96	27.85	18.67	10.76	--	2,700	140	<12	<12	<12	280	--
02/07/97	27.85	19.75	8.10	--	220	13	0.6	<0.5	1.6	15	--
05/07/97	27.85	18.33	9.52	--	5,200	33	12	21	26	330	--
07/22/97	27.85	17.43	10.42	--	4,200	80	<10	16	24	400	--
11/03/97	27.85	16.85	11.00	--	2,400	150	6.8	6.5	9.5	510	--
01/28/98	27.85	20.75	7.10	--	850	69	4.8	5.0	11	38/48 <sup>12</sup>	--
05/08/98	27.85	20.14	7.71	--	4,200	200	30	40	42	310/200 <sup>12</sup>	--
07/29/98	27.85	18.40	9.45	--	3,800	54	10	27	30	35/290 <sup>12</sup>	--
11/06/98	27.85	17.15	10.70	--	4,800	100	20	12	23	360/210 <sup>12</sup>	--
02/09/99 <sup>5</sup>	27.85	21.87	5.98	--	2,950	79.5	<10	<10	<10	435/312 <sup>12</sup>	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station #9-4612  
3616 San Leandro 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)	TOG (ppb)
<b>VH-1 (cont)</b>											
05/13/99	27.85	19.71	8.14	--	4,180	147	12.8	16.5	20.3	433245 <sup>12</sup>	--
09/07/99	27.85	17.94	9.91	--	2,750	57.6	<5.0	6.53	<5.0	297/233 <sup>12</sup>	--
11/24/99	27.85	17.36	10.49	--	2,550	38	3.18	2.54	5.21	--/216 <sup>1,12</sup>	--
02/25/00	27.85	21.20	6.65	--	120	2.7	<0.5	<0.5	<0.5	20.5/11.9 <sup>12</sup>	--
05/10/00	27.85	19.76	8.09	--	1,400 <sup>8</sup>	63	3.3	3.1	4.9	230/110 <sup>12</sup>	--
7/31/00 <sup>11</sup>	27.85	18.30	9.55	--	360 <sup>8</sup>	22	2.7	1.6	3.1	100/88 <sup>12</sup>	--
10/30/00 <sup>11</sup>	27.85	17.91	9.94	--	987 <sup>10</sup>	47.0	1.00	<0.500	1.80	153/130 <sup>12</sup>	--
02/05/01	27.91	19.23	8.68	--	2,670	42.7	<5.00	<5.00	<5.00	225/160 <sup>12</sup>	--
05/07/01 <sup>11</sup>	27.91	19.61	8.30	--	1,800 <sup>6</sup>	100	8.2	10	7.9	440/110 <sup>12</sup>	--
08/06/01 <sup>11</sup>	27.91	18.09	9.82	--	1,000 <sup>6</sup>	67	6.1	2.1	7.1	270/140 <sup>12</sup>	--
11/12/01 <sup>11</sup>	27.91	17.29	10.62	--	220	1.2	<0.50	<0.50	<1.5	63/61 <sup>12</sup>	--
02/11/02 <sup>11</sup>	27.91	19.83	8.08	--	1,700	33	<5.0	6.3	3.8	64/52 <sup>12</sup>	--
05/13/02 <sup>11</sup>	27.91	19.21	8.70	--	2,700	54	4.1	5.6	6.2	100/80 <sup>12</sup>	--
08/09/02 <sup>11</sup>	27.91	18.50	9.41	--	2,400	37	2.4	1.2	3.4	86/89 <sup>12</sup>	--
11/07/02 <sup>11</sup>	27.91	17.34	10.57	--	150	1.3	<0.50	<0.50	<1.5	56/50 <sup>12</sup>	--
02/04/03 <sup>11</sup>	27.91	19.63	8.28	--	1,700	40	3.1	7.8	5.0	100/53 <sup>12</sup>	--
05/05/03 <sup>11</sup>	27.91	20.41	7.50	--	2,100	44	3.4	3.7	5.2	96/62 <sup>12</sup>	--
<b>09/06/03<sup>11,14</sup></b>	<b>27.91</b>	<b>18.31</b>	<b>9.60</b>	--	<b>690</b>	<b>7</b>	<b>0.6</b>	<b>&lt;0.5</b>	<b>0.6</b>	<b>59</b>	--
<b>MW-2</b>											
02/16/93	27.51	--	--	--	9,200	720	110	250	170	--	--
03/26/93	27.51	19.89	7.62	--	--	--	--	--	--	--	--
05/27/93	27.51	18.04	9.47	--	360	5.3	2.1	1.8	2.5	--	--
08/18/93	27.51	16.46	11.05	--	9,400	1,100	76	110	100	--	--
11/03/93	27.51	14.56	12.95	--	8,600	390	20	2.7	120	--	--
02/10/94	27.51	17.72	9.79	--	2,700	370	38	44	41	--	--
05/12/94	27.51	18.59	8.92	--	3,800	650	76	15	62	--	--
08/26/94	27.51	16.14	11.37	--	16,000	1,300	270	28	120	--	--
11/14/94	27.51	17.48	10.03	--	5,100	390	10	43	27	--	--
02/01/95	27.51	20.47	7.04	--	6,900	520	82	170	110	--	--
05/12/95	27.51	18.76	8.75	--	7,700	510	83	110	100	--	--
08/22/95	27.51	17.35	10.16	--	4,500	220	16	61	47	--	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station #9-4612  
3616 San Leandro 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)	TOG (ppb)
<b>MW-2 (cont)</b>											
12/19/95	27.51	18.05	9.46	--	2,900	240	<10	19	18	220	--
01/31/96	27.51	21.91	5.60	--	3,900	320	18	72	39	<25	--
04/30/96	27.51	18.68	8.83	--	5,600	200	36	55	47	170	--
08/01/96	27.51	17.25	10.26	--	6,200	190	15	62	59	220	--
10/30/96	27.51	17.25	11.48	--	5,700	190	<25	67	36	260	--
02/07/97	27.51	18.11	9.40	--	8,300	210	34	70	59	330	--
05/07/97	27.51	17.57	9.94	--	6,900	190	12	38	37	530	--
07/22/97	27.51	16.36	11.15	--	10,000	18	25	62	41	630	--
11/03/97	27.51	15.93	11.58	--	6,500	260	8.5	26	14	590/9.6 <sup>4,12</sup>	--
01/28/98	27.51	19.38	8.13	--	6,700	65	13	67	54	280/94 <sup>12</sup>	--
05/08/98	27.51	18.89	8.62	--	5,500	91	38	43	61	220/62 <sup>12</sup>	--
07/29/98	27.51	17.06	10.45	--	3,600	41	8.9	3.6	14	16/94 <sup>12</sup>	--
11/06/98	27.51	15.89	11.62	--	6,900	77	<5.0	14	17	290/110 <sup>12</sup>	--
02/09/99 <sup>5</sup>	27.51	20.61	6.90	--	8,070	75.6	<10	<10	<10	397/144 <sup>12</sup>	--
05/13/99	27.51	18.21	9.30	--	5,890	120	<5.0	12.5	26.6	401/69.4 <sup>12</sup>	--
09/07/99	27.51	16.57	10.94	--	5,820	41.2	<5.0	14.6	<5.0	260/145 <sup>12</sup>	--
11/24/99	27.51	15.98	11.53	--	5,940	40.9	<10	10.8	<10	--/120 <sup>1,12</sup>	--
02/25/00	27.51	21.00	6.51	--	6,370	101	9.37	39.8	33.2	321/121 <sup>12</sup>	--
05/10/00	27.51	18.49	9.02	--	6,100 <sup>8</sup>	110	13	27	31	560/120 <sup>12</sup>	--
07/31/00 <sup>11</sup>	27.51	17.18	10.33	--	3,000 <sup>8</sup>	75	14	28	28	200/130 <sup>12</sup>	--
10/30/00 <sup>11</sup>	27.51	16.95	10.56	--	6,810 <sup>10</sup>	162	<5.00	8.05	<15.0	372/140 <sup>12</sup>	--
02/05/01 <sup>11</sup>	28.05	18.47	9.58	--	5,860	28.4	6.86	16.2	11.8	285/140 <sup>12</sup>	--
05/07/01 <sup>11</sup>	28.05	18.85	9.20	--	4,700 <sup>6</sup>	120	15	30	42	540/88 <sup>12</sup>	--
08/06/01 <sup>11</sup>	28.05	17.31	10.74	--	3,700 <sup>6</sup>	120	<20	28	33	490/110 <sup>12</sup>	--
11/12/01 <sup>11</sup>	28.05	16.60	11.45	--	7,000	29	<10	27	22	93/98 <sup>12</sup>	--
02/11/02 <sup>11</sup>	28.05	18.99	9.06	--	5,900	43	15	24	27	90/86 <sup>12</sup>	--
05/13/02 <sup>11</sup>	28.05	18.41	9.64	--	5,500	26	5.2	23	26	120/47 <sup>12</sup>	--
08/09/02 <sup>11</sup>	28.05	17.76	10.29	--	5,700	26	3.7	26	50	100/69 <sup>12</sup>	--
11/07/02 <sup>11</sup>	28.05	16.78	11.27	--	5,900	33	4.4	23	21	<100/69 <sup>12</sup>	--
02/04/03 <sup>11</sup>	28.05	18.92	9.13	--	5,400	22	4.7	13	14	<50/55 <sup>12</sup>	--
05/05/03 <sup>11</sup>	28.05	19.67	8.38	--	4,500	23	4.7	12	15	<50/31 <sup>12</sup>	--
09/06/03 <sup>11,14</sup>	28.05	17.65	10.40	--	3,200	13	2	7	7	54	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station #9-4612  
3616 San Leandro Street  
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (mst)	DTW (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
MW-3											
02/16/93	28.50	--	--	--	3,500	<0.5	8.1	4.6	7.7	--	--
03/26/93	28.50	21.32	7.18	--	--	--	--	--	--	--	--
05/27/93	28.50	19.17	9.33	--	4,200	580	84	150	100	--	--
08/18/93	28.50	16.50	12.00	1,400	910	12	3.7	6.2	3.8	--	<5,000
11/03/93	28.50	15.21	13.29	--	5,300	29	1.9	0.6	27	--	--
02/10/94	28.50	18.87	9.63	<50	63	<0.5	0.7	<0.5	<0.5	--	--
05/12/94	28.50	19.73	8.77	84	<50	<0.5	0.5	<0.5	<0.5	--	--
08/26/94	28.50	17.08	11.42	--	2,100	12	<0.5	5.0	0.5	--	--
11/14/94	28.50	18.43	10.07	--	140	0.78	<0.5	<0.5	<0.5	--	--
02/01/95	28.50	22.21	6.29	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/12/95	28.50	20.43	8.07	540 <sup>2</sup>	330	13	1.1	1.9	0.69	--	--
08/22/95	28.50	18.55	9.95	550 <sup>2</sup>	980	32	<1.0	<1.0	<1.0	--	--
12/19/95	28.50	19.10	9.40	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/31/96	28.50	23.45	5.05	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/30/96	28.50	20.10	8.40	240 <sup>2</sup>	320	2.4	<0.5	0.75	<0.5	7.8	--
08/01/96	28.50	18.70	9.80	470 <sup>2</sup>	980	9.6	<0.5	0.98	2.2	54	--
10/30/96	28.50	18.70	11.48	760 <sup>2</sup>	2,000	14	<10	<10	<10	140	--
02/07/97	28.50	19.90	8.60	61 <sup>2</sup>	200 <sup>2</sup>	<0.5	<0.5	<0.5	<0.5	8.9	--
05/07/97	28.50	19.49	9.01	550 <sup>2</sup>	3,500	14	3.9	3.6	8.0	160	--
07/22/97	28.50	17.38	11.12	800 <sup>2</sup>	3,500	55	<10	<10	<10	150	--
11/03/97	28.50	16.99	11.51	910 <sup>2</sup>	4,100	140	<5.0	<5.0	<5.0	380	--
01/28/98	28.50	21.16	7.34	--	1,100	24	<1.2	<1.2	2.8	33/6.1 <sup>12</sup>	--
05/08/98	28.50	20.44	8.06	250 <sup>2</sup>	990	3.6	7.7	0.7	2.2	37/7.5 <sup>12</sup>	--
07/29/98	28.50	18.25	10.25	290 <sup>2</sup>	1,200	13	<0.5	<0.5	1.4	11/28 <sup>12</sup>	--
11/06/98	28.50	17.11	11.39	390 <sup>2</sup>	2,600	5.3	<2.5	<2.5	3.0	91/41 <sup>12</sup>	--
02/09/99 <sup>5</sup>	28.50	22.40	6.10	184 <sup>2</sup>	406	<1.0	4.03	<1.0	<1.0	17.7/1.97 <sup>12</sup>	--
05/13/99	28.50	19.38	9.12	--	615	13.8	1.05	<0.5	<0.5	43.5/21.2 <sup>12</sup>	--
09/07/99	28.50	17.77	10.73	528 <sup>2</sup>	2,710	<5.0	<5.0	<5.0	<5.0	96.3/57.9 <sup>12</sup>	--
11/24/99	28.50	17.37	11.13	1,070 <sup>2</sup>	5,530	<5.0	<5.0	5.59	<5.0	--/66 <sup>1,12</sup>	--
02/25/00	28.50	22.22	6.28	--	189	4.68	<0.5	<0.5	<0.5	11.9/<2.0 <sup>12</sup>	--
03/01/00	28.50	21.80	6.70	380 <sup>2</sup>	--	--	--	--	--	--	--
05/10/00	28.50	19.90	8.60	830 <sup>7</sup>	1,600 <sup>6</sup>	22	<10	<10	<10	'100/51 <sup>12</sup>	--
07/31/00 <sup>11</sup>	28.50	18.43	10.07	490 <sup>7</sup>	2,200 <sup>6</sup>	76	10	<5.0	13	230/52 <sup>12</sup>	--



**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station #9-4612  
3616 San Leandro Street  
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (mst)	DTW (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
<b>MW-3 (cont)</b>											
10/30/00 <sup>11</sup>	28.50	17.97	10.53	580 <sup>9</sup>	3,320 <sup>10</sup>	<5.00	<5.00	<5.00	<15.0	147/64 <sup>12</sup>	--
02/05/01 <sup>11</sup>	29.04	19.78	9.26	--	3,960	<5.00	6.02	<5.00	<5.00	159/70 <sup>12</sup>	--
05/07/01 <sup>11</sup>	29.04	20.29	8.75	--	2,800 <sup>6</sup>	61	12	<10	20	230/49 <sup>12</sup>	--
05/10/01 <sup>11</sup>	29.04	20.21	8.83	390 <sup>13</sup>	--	--	--	--	--	--	--
08/06/01 <sup>11</sup>	29.04	18.59	10.45	870 <sup>7</sup>	1,600 <sup>6</sup>	39	14	1.3	5.6	130/43 <sup>12</sup>	--
11/12/01 <sup>11</sup>	29.04	17.82	11.22	1,400	3,100	3.6	23	2.3	5.6	40/46 <sup>12</sup>	--
02/11/02 <sup>11</sup>	29.04	20.66	8.38	700	4,000	10	<5.0	4.2	5.5	44/42 <sup>12</sup>	--
05/13/02 <sup>11</sup>	29.04	19.84	9.20	730	2,500	18	<5.0	<5.0	5.2	44/32 <sup>12</sup>	--
08/09/02 <sup>11</sup>	29.04	18.87	10.17	560	2,700	17	<5.0	<5.0	<10	45/33 <sup>12</sup>	--
11/07/02 <sup>11</sup>	29.04	17.91	11.13	660	2,600	24	<5.0	2.0	4.8	51/37 <sup>12</sup>	--
02/04/03 <sup>11</sup>	29.04	20.44	8.60	370	2,200	13	1.5	2.7	5.0	<50/24 <sup>12</sup>	--
05/05/03 <sup>11</sup>	29.04	21.22	7.82	580	2,100	14	1.8	2.0	3.9	<20/19 <sup>12</sup>	--
09/06/03 <sup>11,14</sup>	29.04	18.79	10.25	780	1,800	2	0.6	0.6	1	28	--
<b>MW-4</b>											
08/22/95	27.27	18.16	9.11	--	9,600	100	<10	<10	<10	--	--
12/19/95	27.27	18.97	8.30	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/31/96	27.27	21.67	5.60	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/30/96	27.27	20.27	7.00	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
08/01/96	27.27	18.12	9.15	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/30/96	27.27	18.12	10.74	--	110	<0.5	<0.5	<0.5	<0.5	<2.5	--
02/07/97	27.27	19.47	7.80	--	80	<0.5	<0.5	<0.5	<0.5	4.1	--
05/07/97	27.27	21.42	5.85	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/22/97	27.27	17.22	10.05	--	150	<0.5	<0.5	<0.5	<0.5	<2.5	--
11/03/97	27.27	16.55	10.72	--	52	0.9	<0.5	<0.5	<0.5	-- <sup>3</sup>	--
01/28/98	27.27	20.76	6.51	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5/<2.0 <sup>12</sup>	--
05/08/98	27.27	20.25	7.02	--	56	<0.5	<0.5	<0.5	<0.5	<2.5/<2.0 <sup>12</sup>	--
07/29/98	27.27	18.32	8.95	--	<50	0.9	<0.5	<0.5	<0.5	<2.5/<2.0 <sup>12</sup>	--
11/06/98	27.27	16.68	10.59	--	72	<0.5	<0.5	<0.5	<0.5	<2.5/<2.0 <sup>12</sup>	--
02/09/99	27.27	21.41	5.86	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0/<1.1 <sup>12</sup>	--
05/13/99	27.27	19.32	7.95	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0/<2.0 <sup>12</sup>	--
09/07/99	27.27	17.79	9.48	--	70.2	<0.5	<0.5	<0.5	<0.5	<2.0/<1.0 <sup>12</sup>	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station #9-4612  
3616 San Leandro 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)	TOG (ppb)
<b>MW-4 (cont)</b>											
11/24/99	27.27	17.22	10.05	--	227	<0.5	<0.5	<0.5	<0.5	--/ <0.5 <sup>12</sup>	--
02/25/00	27.27	INACCESSIBLE		--	--	--	--	--	--	--	--
03/01/00	27.27	21.10	6.17	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5/ <2.0 <sup>12</sup>	--
05/10/00	27.27	INACCESSIBLE - CAR PARKED OVER WELL				--	--	--	--	--	--
07/31/00	27.27	17.90	9.37	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5/ <2.0 <sup>12</sup>	--
10/30/00	27.27	17.80	9.47	--	54.0 <sup>10</sup>	<0.500	<0.500	<0.500	<1.50	<2.50/ <2.0 <sup>12</sup>	--
02/05/01	27.27	INACCESSIBLE - CAR PARKED OVER WELL				--	--	--	--	--	--
05/07/01	27.27	19.46	7.81	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5/ <2.0 <sup>12</sup>	--
08/06/01	27.27	17.49	9.78	--	<50	1.1	0.52	<0.50	1.1	6.0/ <2.0 <sup>12</sup>	--
11/12/01	27.27	16.86	10.41	--	93	<0.50	<0.50	<0.50	<1.5	<2.5/ <2 <sup>12</sup>	--
02/11/02	27.27	19.63	7.64	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5/ <2 <sup>12</sup>	--
05/13/02	27.27	18.95	8.32	--	54	<0.50	0.84	<0.50	<1.5	<2.5/ <2 <sup>12</sup>	--
08/09/02	27.27	18.02	9.25	--	54	<0.50	<0.50	<0.50	<1.5	<2.5/ <2 <sup>12</sup>	--
11/07/02	27.27	16.85	10.42	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5/ <2 <sup>12</sup>	--
02/04/03	27.27	19.52	7.75	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5/ <0.5 <sup>12</sup>	--
05/05/03	27.27	20.37	6.90	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5/ <0.5 <sup>12</sup>	--
09/06/03 <sup>14</sup>	27.27	17.77	9.50	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
<b>TRIP BLANK</b>											
05/27/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
08/18/93	--	--	--	1,400	<50	<0.5	<0.5	<0.5	<1.5	--	<5,000
11/03/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/10/94	--	--	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/12/94	--	--	--	84	<50	<0.5	<0.5	<0.5	<0.5	--	--
08/26/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/14/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/01/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/12/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
08/22/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/19/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/31/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/30/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station #9-4612  
3616 San Leandro 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)	TOG (ppb)
<b>TRIP BLANK (cont)</b>											
08/01/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/30/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
02/07/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/07/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/22/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/28/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--/<2.0 <sup>12</sup>	--
05/08/98	--	--	--	--	--	--	--	--	--	--/<2.0 <sup>12</sup>	--
07/29/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--/<2.0 <sup>12</sup>	--
11/06/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
02/09/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
05/13/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0/<2.0 <sup>12</sup>	--
09/07/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
11/24/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
02/25/00	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
03/01/00	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/10/00	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
07/31/00	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
10/30/00	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<1.50	<2.50	--
02/05/01	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
05/07/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
05/10/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
08/06/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
<b>QA</b>											
11/12/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
02/11/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
05/13/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
08/09/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
11/07/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
02/04/03	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
05/05/03	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
09/06/03 <sup>14</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station #9-4612  
3616 San Leandro Street  
Oakland, California

**EXPLANATIONS:**

Groundwater monitoring data and laboratory analytical results prior to May 10, 2000, were compiled from reports prepared by Blaine Tech Services, Inc.

TOC = Top of Casing

(ft.) = Feet

GWE = Groundwater Elevation

(msl) = Mean sea level

DTW = Depth to Water

TPH-D = Total Petroleum Hydrocarbons as Diesel

TPH-G = Total Petroleum Hydrocarbons as Gasoline

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MTBE = Methyl tertiary butyl ether

TOG = Total Oil and Grease

(ppb) = Parts per billion

-- = Not Measured/Not Analyzed

QA = Quality Assurance/Trip Blank

\* TOC elevations were re-surveyed on March 8, 2001, by Virgil Chavez Land Surveying. The benchmark for the survey was a City of Oakland benchmark, being a cut square top of curb at the centerline return at the northwest corner of East 14th and 37th Avenue, (Benchmark Elevation = 38.21 feet, NGVD 29).

<sup>1</sup> Lab could not get a good ion chromatogram match for MTBE. See laboratory report.

<sup>2</sup> Chromatogram pattern indicates an unidentified hydrocarbon.

<sup>3</sup> No value for MTBE could be determined; see lab report for analyses.

<sup>4</sup> Confirmation run.

<sup>5</sup> ORC was installed.

<sup>6</sup> Laboratory report indicates gasoline C6-C12.

<sup>7</sup> Laboratory report indicates unidentified hydrocarbons <C16.

<sup>8</sup> Laboratory report indicates gasoline C6-C12 + unidentified hydrocarbons <C6.

<sup>9</sup> Laboratory report indicates unidentified hydrocarbons >C16.

<sup>10</sup> Laboratory report indicates hydrocarbon pattern present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.

<sup>11</sup> ORC in well.

<sup>12</sup> MTBE by EPA Method 8260.

<sup>13</sup> Laboratory report indicates unidentified hydrocarbons C9-C17.

<sup>14</sup> BTEX and MTBE by EPA Method 8260.

**Table 2**  
**Dissolved Oxygen Concentrations**  
Former Chevron Service Station #9-4612  
3616 San Leandro Street  
Oakland, California

WELL ID	DATE	Before Purging (mg/L)	After Purging (mg/L)
VH-1	05/10/00	0.90	--
	07/31/00	1.25	--
	10/30/00	1.97	--
	05/07/01	1.10	--
	08/06/01	1.40	--
	11/12/01	0.90	--
	02/11/02	1.10	--
	05/13/02	0.70	--
MW-2	05/10/00	0.57	--
	07/31/00	1.26	--
	10/30/00	1.25	--
	05/07/01	0.90	--
	08/06/01	1.10	--
	11/12/01	0.80	--
	02/11/02	0.60	--
	05/13/02	0.80	--
MW-3	05/10/00	1.56	--
	07/31/00	1.46	--
	10/30/00	1.18	--
	05/07/01	0.70	--
	08/06/01	0.90	--
	11/12/01	0.50	--
	02/11/02	0.80	--
	05/13/02	1.80	--
MW-4	05/10/00	INACCESSIBLE - CAR PARKED OVER WELL	--
	07/31/00	0.64	--
	10/30/00	0.97	--
	02/05/01	INACCESSIBLE - CAR PARKED OVER WELL	--
	05/07/01	0.50	--
	08/06/01	0.70	--
	11/12/01	1.00	--
	02/11/02	1.00	--
05/13/02	2.90	--	

**Table 2**  
**Dissolved Oxygen Concentrations**  
Former Chevron Service Station #9-4612  
3616 San Leandro Street  
Oakland, California

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**EXPLANATIONS:**

(mg/L) = Milligrams per liter

-- = Not Measured

**Table 3**  
**Groundwater Analytical Results - Oxygenate Compounds**  
Former Chevron Service Station #9-4612  
3616 San Leandro Street  
Oakland, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)
VH-1	02/05/01	<500	<50	160	<2.0	<2.0	<2.0
	05/07/01	--	--	110	--	--	--
	08/06/01	--	--	140	--	--	--
	11/12/01	--	--	61	--	--	--
	02/11/02	--	--	52	--	--	--
	05/13/02	--	--	80	--	--	--
	08/09/02	--	--	89	--	--	--
	11/07/02	--	--	50	--	--	--
	02/04/03	--	--	53	--	--	--
	05/05/03	--	--	62	--	--	--
09/06/03	--	--	59	--	--	--	
MW-2	02/05/01	<500	<50	140	<2.0	<2.0	<2.0
	05/07/01	--	--	88	--	--	--
	08/06/01	--	--	110	--	--	--
	11/12/01	--	--	98	--	--	--
	02/11/02	--	--	86	--	--	--
	05/13/02	--	--	47	--	--	--
	08/09/02	--	--	69	--	--	--
	11/07/02	--	--	69	--	--	--
	02/04/03	--	--	55	--	--	--
	05/05/03	--	--	31	--	--	--
09/06/03	--	--	54	--	--	--	
MW-3	02/05/01	<500	<50	70	<2.0	<2.0	<2.0
	05/07/01	--	--	49	--	--	--
	08/06/01	--	--	43	--	--	--
	11/12/01	--	--	46	--	--	--
	02/11/02	--	--	42	--	--	--
	05/13/02	--	--	32	--	--	--
	08/09/02	--	--	33	--	--	--
	11/07/02	--	--	37	--	--	--

**Table 3**  
**Groundwater Analytical Results - Oxygenate Compounds**  
Former Chevron Service Station #9-4612  
3616 San Leandro Street  
Oakland, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)
MW-3 (cont)	02/04/03	--	--	24	--	--	--
	05/05/03	--	--	19	--	--	--
	09/06/03	--	--	28	--	--	--
MW-4	05/07/01	--	--	<2.0	--	--	--
	08/06/01	--	--	<2.0	--	--	--
	11/12/01	--	--	<2	--	--	--
	02/11/02	--	--	<2	--	--	--
	05/13/02	--	--	<2	--	--	--
	08/09/02	--	--	<2	--	--	--
	11/07/02	--	--	<2	--	--	--
	02/04/03	--	--	<0.5	--	--	--
	05/05/03	--	--	<0.5	--	--	--
09/06/03	--	--	<0.5	--	--	--	



**Table 3**  
**Groundwater Analytical Results - Oxygenate Compounds**  
Former Chevron Service Station #9-4612  
3616 San Leandro 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  
(ppb) = Parts per billion  
-- = Not Analyzed

**ANALYTICAL METHOD:**

EPA Method 8260 for Oxygenate Compounds

## 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 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, if purging is to occur, 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.



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-4612  
 Site Address: 3616 San Leandro Street  
 City: Oakland, CA

Job Number: 386473  
 Event Date: 9.6.03 (inclusive)  
 Sampler: ET

Well ID: VH - 1  
 Well Diameter: 2 / (4) in.  
 Total Depth: 28.48 ft.  
 Depth to Water: 9.60 ft.  
18.88 xVF .66 = 12.46 x3 (case volume) = Estimated Purge Volume: 37.38 gal.

Date Monitored: 9.6.03 Well Condition: OK

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): 12:08 Weather Conditions: SUNNY  
 Sample Time/Date: 12:40 9.6.03 Water Color: CLEAR Odor: YES  
 Purging Flow Rate: 2.5 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°C)	D.O. (mg/L)	ORP (mV)
<u>12:13</u>	<u>12.5</u>	<u>7.59</u>	<u>97.6</u>	<u>19.0</u>	_____	_____
<u>12:18</u>	<u>25.0</u>	<u>7.51</u>	<u>89.4</u>	<u>18.8</u>	_____	_____
<u>12:23</u>	<u>37.0</u>	<u>7.46</u>	<u>85.7</u>	<u>18.6</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>VH - 1</u>	<u>6 x vov vial</u>	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-G(8015)/BTEX+MTBE(8260)</u>
	<u>x amber</u>	<u>YES</u>	<u>NP</u>	<u>LANCASTER</u>	<u>TPH-D</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: ORC IN THIS WELL

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



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-4612 Job Number: 386473  
 Site Address: 3616 San Leandro Street Event Date: 9.6.03 (inclusive)  
 City: Oakland, CA Sampler: FT

Well ID: MW - 2 Date Monitored: 9.6.03 Well Condition: OK!  
 Well Diameter: 2 1/4 in.  
 Total Depth: 19.50 ft.  
 Depth to Water: 10.40 ft.  
9.10 xVF .17 = 1.54 x3 (case volume) = Estimated Purge Volume: 4.64 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): 11:16 Weather Conditions: SUNNY  
 Sample Time/Date: 11:31 / 9.6.03 Water Color: CLEAR Odor: YES  
 Purging Flow Rate: 2.0 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>11:17</u>	<u>1.5</u>	<u>7.49</u>	<u>109.8</u>	<u>21.2</u>	_____	_____
<u>11:18</u>	<u>3.0</u>	<u>7.44</u>	<u>100.9</u>	<u>20.3</u>	_____	_____
<u>11:19</u>	<u>4.5</u>	<u>7.45</u>	<u>96.5</u>	<u>20.0</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW - 2</u>	<u>6</u> x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8260)
	x amber	YES	NP	LANCASTER	TPH-D
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: ORC IN THIS WELL

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



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-4612  
 Site Address: 3616 San Leandro Street  
 City: Oakland, CA

Job Number: 386473  
 Event Date: 9.6.03 (inclusive)  
 Sampler: FT

Well ID: MW-3 Date Monitored: 9.6.03 Well Condition: o'k'

Well Diameter: 2 1/4 in.  
 Total Depth: 18.04 ft.  
 Depth to Water: 10.25 ft.  
7.79

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

$7.79 \times VF .17 = 1.32 \times 3 \text{ (case volume)} = \text{Estimated Purge Volume: } 3.97 \text{ gal.}$

### 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): 10:43 Weather Conditions: SHUNY  
 Sample Time/Date: 10:57 / 9.6.03 Water Color: LT. GREY Odor: YES  
 Purging Flow Rate: 2.0 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>10:44</u>	<u>1.5</u>	<u>7.42</u>	<u>113.6</u>	<u>22.1</u>	_____	_____
<u>10:45</u>	<u>3.0</u>	<u>7.43</u>	<u>103.8</u>	<u>21.1</u>	_____	_____
<u>10:46</u>	<u>4.0</u>	<u>7.45</u>	<u>104.6</u>	<u>20.9</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>6</u> x vov vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8260)
	<u>2</u> x amber	YES	NP	LANCASTER	TPH-D
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: OK IN THIS WELL

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



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-4612 Job Number: 386473  
 Site Address: 3616 San Leandro Street Event Date: 9.6.03 (inclusive)  
 City: Oakland, CA Sampler: FT

Well ID: MW - 4 Date Monitored: 9.6.03 Well Condition: 1 BROKEN FLANGY (SEE PHOTO)  
 Well Diameter: 2 1/4 in.  
 Total Depth: 19.25 ft.  
 Depth to Water: 9.50 ft.  
9.75 xVF .17 = 1.65 x3 (case volume) = Estimated Purge Volume: 4.97 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): 9:52 Weather Conditions: CLOUDY  
 Sample Time/Date: 10:08 / 9.6.03 Water Color: CLEAR Odor: NO  
 Purging Flow Rate: 1 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>9:55</u>	<u>1.5</u>	<u>7.53</u>	<u>147.8</u>	<u>20.5</u>	_____	_____
<u>9:58</u>	<u>3.0</u>	<u>7.42</u>	<u>121.0</u>	<u>19.9</u>	_____	_____
<u>10:02</u>	<u>5.0</u>	<u>7.39</u>	<u>114.0</u>	<u>19.8</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW - 4</u>	<u>6</u> x vov vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8260)
	x amber	YES	NP	LANCASTER	TPH-D

### COMMENTS:

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

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



## ANALYTICAL RESULTS

Prepared for:

ChevronTexaco  
6001 Bollinger Canyon Rd L4310San Ramon CA 94583  
925-842-8582

Prepared by:

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

The sample group for this submittal is 866191. Samples arrived at the laboratory on Tuesday, September 09, 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-030906	NA Water	4117560
VH-1-W-030906	Grab Water	4117561
MW-2-W-030906	Grab Water	4117562
MW-3-W-030906	Grab Water	4117563
MW-4-W-030906	Grab Water	4117564

ELECTRONIC      Gettler-Ryan  
COPY TO  
1 COPY TO      Cambria C/O Gettler- Ryan

Attn: Cheryl Hansen

Attn: Deanna L. Harding





## **Analysis Report**

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

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

Respectfully Submitted,

A handwritten signature in black ink that reads "Steven A. Skiles".

Steven Skiles  
Senior Chemist



# Analysis Report

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

Lancaster Laboratories Sample No. **WW 4117560**

Collected: 09/06/2003 00:00

Account Number: 10904

Submitted: 09/09/2003 09:25  
Reported: 09/22/2003 at 09:07  
Discard: 10/23/2003

ChevronTexaco  
6001 Bollinger Canyon Rd L4310

QA-T-030906                      NA                      Water

San Ramon CA 94583

Facility# 94612 Job# 386473  
3616 San Leandro Oakland T0600100333 QA

GRD

TBOAK

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters 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.	n.a.	N.D.	50.	ug/l	1
06054	BTEX+MTBE by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	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
01728	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	09/13/2003 13:04	Michael F Barrow	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	09/12/2003 01:01	Elizabeth M Taylor	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/13/2003 13:04	Michael F Barrow	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/12/2003 01:01	Elizabeth M Taylor	n.a.

**Lancaster Laboratories Sample No. WW 4117561**

Collected: 09/06/2003 12:40 by FT

Account Number: 10904

 Submitted: 09/09/2003 09:25  
 Reported: 09/22/2003 at 09:07  
 Discard: 10/23/2003  
 VH-1-W-030906

 ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

Grab Water

 Facility# 94612 Job# 386473  
 3616 San Leandro Oakland T0600100333 VH-1

GRD

VHOAK

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	690.	250.	ug/l	5
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.						
06054	BTEX+MTBE by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	59.	0.5	ug/l	1
05401	Benzene	71-43-2	7.	0.5	ug/l	1
05407	Toluene	108-88-3	0.6	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	0.6	0.5	ug/l	1

State of California Lab Certification No. 2116

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01728	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	09/13/2003 13:37	Michael F Barrow	5
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	09/12/2003 22:13	Elizabeth M Taylor	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/13/2003 13:37	Michael F Barrow	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/12/2003 22:13	Elizabeth M Taylor	n.a.

**Lancaster Laboratories Sample No. WW 4117562**

Collected: 09/06/2003 11:31 by FT

Account Number: 10904

Submitted: 09/09/2003 09:25

ChevronTexaco

Reported: 09/22/2003 at 09:07

6001 Bollinger Canyon Rd L4310

Discard: 10/23/2003

MW-2-W-030906

Grab Water

San Ramon CA 94583

Facility# 94612 Job# 386473 GRD

3616 San Leandro Oakland T0600100333 MW-2

M2OAK

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01728	TPH-GRO - Waters	n.a.	3,200.		500.	ug/l	10
	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.						
06054	BTEX+MTBE by 8260B						
02010	Methyl Tertiary Butyl Ether	1634-04-4	54.		0.5	ug/l	1
05401	Benzene	71-43-2	13.		0.5	ug/l	1
05407	Toluene	108-88-3	2.		0.5	ug/l	1
05415	Ethylbenzene	100-41-4	7.		0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	7.		0.5	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			
01728	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	09/13/2003 16:53		Michael F Barrow	10
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	09/12/2003 23:06		Elizabeth M Taylor	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/13/2003 16:53		Michael F Barrow	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/12/2003 23:06		Elizabeth M Taylor	n.a.

**Lancaster Laboratories Sample No. WW 4117563**

Collected: 09/06/2003 10:57 by FT

Account Number: 10904

 Submitted: 09/09/2003 09:25  
 Reported: 09/22/2003 at 09:07  
 Discard: 10/23/2003  
 MW-3-W-030906

 ChevronTexaco  
 6001 Bollinger Canyon Rd L4310

Grab Water

San Ramon CA 94583

 Facility# 94612 Job# 386473 GRD  
 3616 San Leandro Oakland T0600100333 MW-3

M3OAK

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	1,800.	250.	ug/l	5
	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.					
05553	TPH - DRO CA LUFT (Waters)	n.a.	780.	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.					
06054	BTEX+MTBE by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	28.	0.5	ug/l	1
05401	Benzene	71-43-2	2.	0.5	ug/l	1
05407	Toluene	108-88-3	0.6	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	0.6	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	1.	0.5	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
01728	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	09/13/2003 17:26	Michael F Barrow	5
05553	TPH - DRO CA LUFT (Waters)	CALUFT-DRO/8015B, Modified	1	09/17/2003 07:19	Tracy A Cole	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	09/12/2003 23:32	Elizabeth M Taylor	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/13/2003 17:26	Michael F Barrow	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/12/2003 23:32	Elizabeth M Taylor	n.a.
02135	Extraction - DRO Water Special	TPH by CA LUFT	1	09/16/2003 09:10	Jessica Agosto	1

**Lancaster Laboratories Sample No. WW 4117564**

Collected: 09/06/2003 10:08 by FT

Account Number: 10904

Submitted: 09/09/2003 09:25

ChevronTexaco

Reported: 09/22/2003 at 09:08

6001 Bollinger Canyon Rd L4310

Discard: 10/23/2003

MW-4-W-030906

Grab

Water

San Ramon CA 94583

Facility# 94612 Job# 386473

GRD

3616 San Leandro Oakland T0600100333 MW-4

M4OAK

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01728	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.						
06054	BTEX+MTBE by 8260B						
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5		ug/l	1
05401	Benzene	71-43-2	N.D.	0.5		ug/l	1
05407	Toluene	108-88-3	N.D.	0.5		ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5		ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5		ug/l	1

State of California Lab Certification No. 2116

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01728	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	09/15/2003 03:36	Todd T Smythe	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	09/11/2003 21:55	Elizabeth M Taylor	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/15/2003 03:36	Todd T Smythe	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/11/2003 21:55	Elizabeth M Taylor	n.a.

## Quality Control Summary

Client Name: ChevronTexaco

Group Number: 866191

Reported: 09/22/03 at 09:08 AM

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</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: 03256A07A TPH-GRO - Waters	N.D.	50.	Sample number(s): 4117560-4117561 ug/l	97		70-130		
Batch number: 03256A07B TPH-GRO - Waters	N.D.	50.	Sample number(s): 4117562-4117563 ug/l	97		70-130		
Batch number: 03256A07D TPH-GRO - Waters	N.D.	50.	Sample number(s): 4117564 ug/l	97		70-130		
Batch number: 032582816A TPH - DRO CA LUFT (Waters)	N.D.	50.	Sample number(s): 4117563 ug/l	88	91	61-126	4	20
Batch number: P032541AA Methyl Tertiary Butyl Ether	N.D.	0.5	Sample number(s): 4117560,4117564 ug/l	92		77-127		
Benzene	N.D.	0.5	ug/l	88		85-117		
Toluene	N.D.	0.5	ug/l	89		85-115		
Ethylbenzene	N.D.	0.5	ug/l	87		82-119		
Xylene (Total)	N.D.	0.5	ug/l	88		84-120		
Batch number: P032552AA Methyl Tertiary Butyl Ether	N.D.	0.5	Sample number(s): 4117561-4117563 ug/l	85		77-127		
Benzene	N.D.	0.5	ug/l	87		85-117		
Toluene	N.D.	0.5	ug/l	88		85-115		
Ethylbenzene	N.D.	0.5	ug/l	88		82-119		
Xylene (Total)	N.D.	0.5	ug/l	89		84-120		

### Sample Matrix Quality Control

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 03256A07A TPH-GRO - Waters	95	95	Sample number(s): 4117560-4117561 63-154	1	30				
Batch number: 03256A07B TPH-GRO - Waters	95	95	Sample number(s): 4117562-4117563 63-154	1	30				
Batch number: 03256A07D TPH-GRO - Waters	95	95	Sample number(s): 4117564 63-154	1	30				
Batch number: P032541AA Methyl Tertiary Butyl Ether	93	94	Sample number(s): 4117560,4117564 69-134	1	30				
Benzene	93	92	83-128	1	30				
Toluene	92	91	83-127	0	30				
Ethylbenzene	90	91	82-129	0	30				
Xylene (Total)	91	91	82-130	0	30				
Batch number: P032552AA Methyl Tertiary Butyl Ether	83	90	Sample number(s): 4117561-4117563 69-134	3	30				
Benzene	92	94	83-128	2	30				
Toluene	95	95	83-127	0	30				
Ethylbenzene	96	96	82-129	0	30				
Xylene (Total)	95	95	82-130	0	30				

\*- 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: 09/22/03 at 09:08 AM

Group Number: 866191

### Sample Matrix Quality Control

<u>Analysis Name</u>	<u>MS</u>	<u>MSD</u>	<u>MS/MSD</u>	<u>RPD</u>	<u>BKG</u>	<u>DUP</u>	<u>DUP</u>	<u>Dup</u>
	<u>%REC</u>	<u>%REC</u>	<u>Limits</u>	<u>RPD</u>	<u>MAX</u>	<u>Conc</u>	<u>Conc</u>	<u>RPD</u>
								<u>Max</u>

### Surrogate Quality Control

Analysis Name: TPH-GRO - Waters  
Batch number: 03256A07A  
Trifluorotoluene-F

4117560	79
4117561	92
Blank	80
LCS	101
MS	106
MSD	106

Limits: 57-146

Analysis Name: TPH-GRO - Waters  
Batch number: 03256A07B  
Trifluorotoluene-F

4117562	97
4117563	107
Blank	79
LCS	101
MS	106
MSD	106

Limits: 57-146

Analysis Name: TPH-GRO - Waters  
Batch number: 03256A07D  
Trifluorotoluene-F

4117564	97
Blank	80
LCS	101
MS	106
MSD	106

Limits: 57-146

Analysis Name: TPH - DRO CA LUFT (Waters)  
Batch number: 032582816A  
Orthoterphenyl

4117563	87
Blank	93
LCS	93
LCSD	96

Limits: 59-139

\*- 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: 09/22/03 at 09:08 AM

Group Number: 866191

### Surrogate Quality Control

 Analysis Name: BTEX+MTBE by 8260B  
 Batch number: P032541AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4117560	97	99	95	94
4117564	97	99	96	95
Blank	96	102	96	95
LCS	95	98	96	96
MS	97	101	94	95
MSD	96	99	96	95
Limits:	81-120	82-112	85-112	83-113

 Analysis Name: BTEX+MTBE by 8260B  
 Batch number: P032552AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4117561	93	92	91	89
4117562	92	92	94	92
4117563	92	95	92	92
Blank	93	92	93	90
LCS	92	93	92	89
MS	91	95	94	94
MSD	93	94	93	91
Limits:	81-120	82-112	85-112	83-113

\*- 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.

# Explanation of Symbols and Abbreviations

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

<b>N.D.</b>	none detected	<b>BMQL</b>	Below Minimum Quantitation Level
<b>TNTC</b>	Too Numerous To Count	<b>MPN</b>	Most Probable Number
<b>IU</b>	International Units	<b>CP Units</b>	cobalt-chloroplatinate units
<b>umhos/cm</b>	micromhos/cm	<b>NTU</b>	nephelometric turbidity units
<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 falls within the Method Detection Limit (MDL) and 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

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

### Inorganic Qualifiers

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

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

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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