



**Chevron**

June 22, 1999

**Chevron Products Company**  
6001 Bollinger Canyon Road  
Building L, Room 1080  
PO Box 6004  
San Ramon, CA 94583-0904

**Philip R. Briggs**  
Project Manager  
Site Assessment & Remediation  
Phone 925 842-9136  
Fax 925 842-8370

Mr. Scott Seery  
Alameda County Health Care Services  
Department of Environmental Health  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

**Re: Chevron Service Station #9-8139**  
**16304 Foothill Blvd.**  
**San Leandro, California**

Dear Mr. Seery:

Enclosed is the Second Quarter Groundwater Monitoring Report for 1999 that was prepared by our consultant Blaine Tech Services Inc., for the above noted site. The groundwater samples were analyzed for the presence of TPH-g, BTEX and MtBE constituents. Monitoring wells EW-2, EW-3, MW-8, MW-9, MW-10, and MW-11 are currently being sampled semi-annually, in the 2<sup>nd</sup> and 4<sup>th</sup> quarters. **Note that wells EW-1, MW-1, MW-2, MW-3, MW-6 and MW-7 have been abandoned.**

Monitoring wells MW-10 and MW-11 were below method detection limits for all the constituents, while wells MW-8 and MW-9 were below method detection limits for the BTEX constituents, but with detection limits of less than 2 ppb and 12 ppb respectively. The benzene constituent increased in monitoring wells EW-2 and EW-3 from the previous sampling event. **The MtBE constituent increased in wells MW-8 and MW-9 from the previous sampling event**, while decreasing in well EW-3. MtBE was detected in well EW-2. Inadvertently, MtBE was not confirmed by EPA Method 8260 in this sampling event, but will be in the next sampling event.

Depth to groundwater varied from 10.04 feet to 11.80 feet below grade with the direction of flow southwesterly.

Chevron will install oxygen-releasing compounds (ORC's) in monitoring wells EW-2, EW-3, MW-8 and MW-9 prior to the next sampling event. It is expected that this will accelerate the natural attenuation process.

82 JUN 28 PM 3:28  
ENVIRONMENTAL PROTECTION

June 22, 1999  
Mr. Scott Seery  
Chevron Service Station #9-8139  
Page 2

Chevron will continue to monitor the site as outlined above. If you have any questions call me at (925) 842-9136.

Sincerely,  
**CHEVRON PRODUCTS COMPANY**



Philip R. Briggs  
Site Assessment and Remediation Project Manager

Enclosure

Cc. Mr. Chuck Headlee  
RWQCB-San Francisco Bay Region  
1550 Clay Street, Suite 1400  
Oakland, CA 94612

Mr. Harv Dhaliwal, P.E.  
G&S Associates, Inc.  
4430 Deerfield Way  
Danville, CA 94506

Mr. Bill Scudder, Chevron

**BLAINE**  
TECH SERVICES INC.



1680 ROGERS AVENUE  
SAN JOSE, CALIFORNIA 95112-1105  
(408) 573-7771 FAX  
(408) 573-0555 PHONE

June 4, 1999

Phil Briggs  
Chevron U.S.A. Products Company  
P.O. Box 6004  
San Ramon, CA 94583-0904

### 2nd Quarter 1999 Monitoring at 9-8139

Second Quarter 1999 Groundwater Monitoring at  
Chevron Service Station Number 9-8139  
16304 Foothill Blvd.  
San Leandro, CA

Monitoring Performed on April 16, 1999

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### Groundwater Sampling Report 990416-C-2

This report covers the routine monitoring of groundwater wells at this Chevron facility. Blaine Tech Services, Inc.'s work at the site includes inspection, gauging, evacuation, purgewater containment, sample collection and sample handling in accordance with standard procedures that conform to Regional Water Quality Control Board requirements.

Routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated volume of a three-case volume purge, elapsed evacuation time, total volume of water removed, and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater is, likewise, collected and transported to McKittrick Waste Treatment Site for disposal.

Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL DATA AND ANALYTICAL RESULTS**. The full analytical report for the most recent samples is located in the **Analytical Appendix**. The table also contains new groundwater elevation calculations taken from the computer plotted gradient

map which is located in the **Professional Engineering Appendix**.

At a minimum, Blaine Tech Services, Inc. field personnel are certified upon completion of a forty-hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight hour refresher courses.

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. concentrates on objective data collection and does not participate in the interpretation of analytical results, the definition of geological or hydrological conditions, the formulation of recommendations, or the marketing of remedial systems.

Please call if you have any questions.

Yours truly,

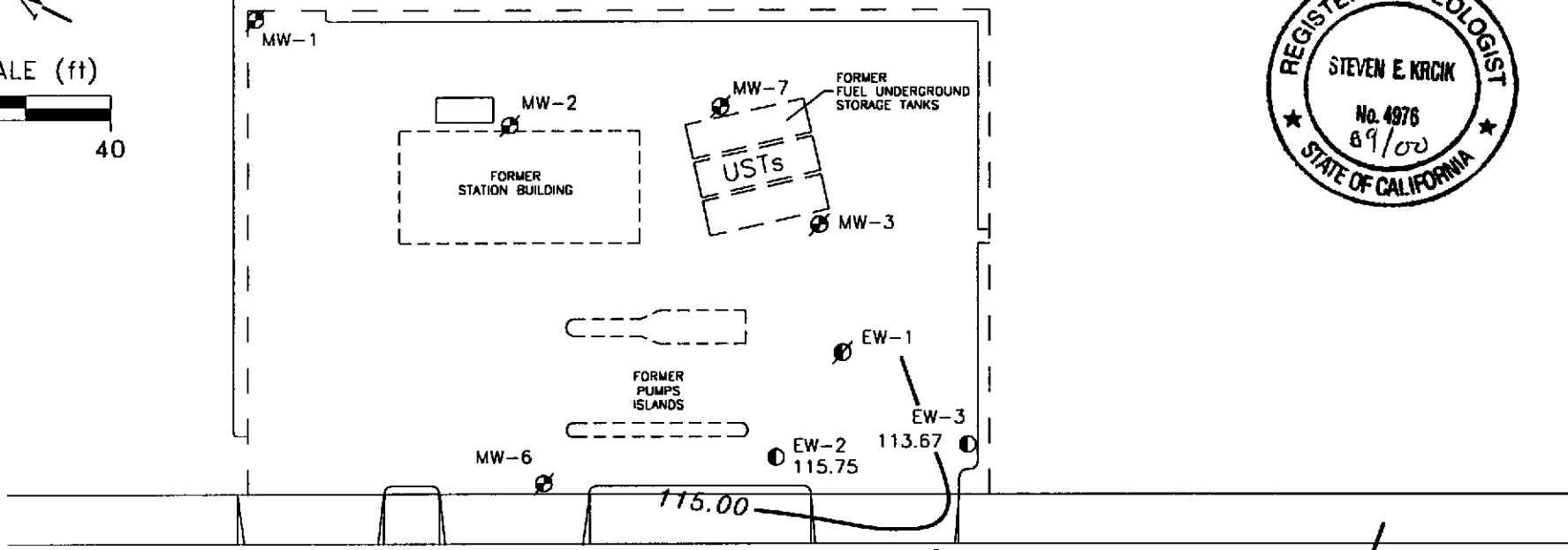
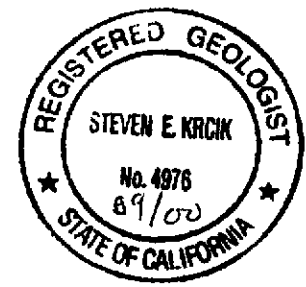
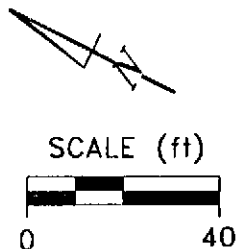


Christine Lillie  
Project Coordinator

CAL/sb

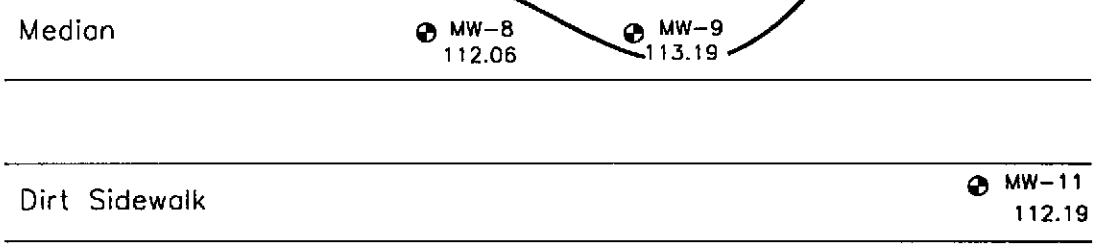
attachments: Professional Engineering Appendix  
Cumulative Table of Well Data and Analytical Results  
Analytical Appendix  
Field Data Sheets

# **Professional Engineering Appendix**



- EXPLANATION**
- ⊙ MONITORING WELL
  - EXTRACTION WELL
  - ⊘ ABANDONED WELL
  - 112.06 GROUNDWATER ELEVATION (FT, MSL)
  - 115.00 — GROUNDWATER ELEVATION CONTOUR (FT, MSL)
  - ↓ APPROXIMATE GROUNDWATER FLOW DIRECTION;  
APPROXIMATE GRADIENT = 0.02

FOOTHILL BOULEVARD  
113.00



Basemap from Cambrio Environmental Technology, Inc.

PREPARED BY  
**RRM**  
engineering contracting firm

**Chevron Station 9-8139**  
16304 Foothill Boulevard  
San Leandro, California

**GROUNDWATER ELEVATION CONTOUR MAP,**  
APRIL 16, 1999

**FIGURE:**  
**1**  
**PROJECT:**  
DAC04

# **Table of Well Data and Analytical Results**

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	EDB
<b>MW-1</b>											
12/05/89	127.09	--	--	*	<500	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
03/23/90	127.09	114.17	12.92	--	--	--	--	--	--	--	--
05/24/90	127.09	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/06/90	127.09	112.41	14.68	--	<50	<0.5	0.8	<0.5	<0.5	<0.5	<0.5
09/25/90	127.09	112.08	15.01	--	--	--	--	--	--	--	--
11/29/90	127.09	112.27	14.82	--	<50	0.7	0.9	<0.5	1.0	--	--
02/20/91	127.09	112.80	14.29	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/19/91	127.09	114.93	12.16	--	--	--	--	--	--	--	--
05/22/91	127.09	113.40	13.69	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
08/22/91	127.09	111.71	15.38	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/13/91	127.09	111.29	15.80	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/30/92	127.09	112.38	14.71	--	<50	0.5	<0.5	<0.5	0.5	--	--
04/23/92	127.09	114.87	12.22	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/27/92	127.09	112.79	14.30	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/26/92	127.09	111.19	15.90	--	<50	0.6	<0.5	<0.5	<0.5	--	--
01/29/93	127.09	116.58	10.51	--	<50	3.0	3.0	0.7	3.0	--	--
04/30/93	127.09	117.19	9.90	--	<50	<0.5	0.7	<0.5	1.0	--	--
07/14/93	127.09	114.81	12.28	--	<50	0.7	1.0	<0.5	3.0	--	--
10/27/93	127.09	111.56	15.53	--	<50	0.9	2.0	<0.5	2.0	--	--
01/13/94	127.09	114.85	12.24	--	<50	<0.5	0.9	<0.5	<0.5	--	--
04/22/94	127.09	114.18	12.91	--	<50	1.1	2.6	1.0	5.5	--	--
07/29/94	127.09	114.34	12.75	--	<50	<0.5	0.9	<0.5	<0.5	--	--
10/25/94	127.09	113.46	13.63	--	100	0.6	1.6	<0.5	4.1	--	--
01/19/95	127.09	117.16	9.93	Well Abandoned	<50	<0.5	<0.5	<0.5	<0.5	--	--

NO LONGER MONITORED OR SAMPLED

\*TPH-Diesel not detected at detection limit of 1000 ppb. Oil and Grease not detected at detection limit of 5000 ppb.



## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	EDB
<b>MW-2</b>											
12/05/89	125.98	--	--	*	<500	<0.5	<0.5	<0.5	0.9	<0.5	<0.5
03/23/90	125.98	113.58	12.40	--	--	--	--	--	--	--	--
05/24/90	125.98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/06/90	125.98	111.13	14.85	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
09/25/90	125.98	111.18	14.80	--	--	--	--	--	--	--	--
11/29/90	125.98	111.58	14.40	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/20/91	125.98	111.89	14.09	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/19/91	125.98	113.36	12.62	--	--	--	--	--	--	--	--
05/22/91	125.98	113.00	12.98	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
08/22/91	125.98	111.05	14.93	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/13/91	125.98	110.56	15.42	--	58	<0.5	0.5	0.7	2.3	--	--
01/30/92	125.98	111.28	14.70	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/23/92	125.98	112.15	13.83	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/27/92	125.98	110.68	15.30	--	<50	<0.5	<0.5	<0.5	1.1	--	--
10/26/92	125.98	110.36	15.62	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/29/93	125.98	116.72	9.26	--	<50	3.0	8.0	1.0	5.0	--	--
04/30/93	125.98	116.32	9.66	--	<1300	<13	<13	<13	<13	--	--
07/14/93	125.98	114.08	11.90	--	<50	0.8	2.0	0.8	4.0	--	--
10/27/93	125.98	112.49	13.49	--	<50	1.0	2.0	1.0	2.0	--	--
01/13/94	125.98	113.99	11.99	--	<50	<0.5	0.6	<0.5	<0.5	--	--
04/22/94	125.98	113.25	12.73	--	<50	0.6	<0.5	<0.5	1.7	--	--
07/29/94	125.98	113.68	12.30	--	<50	<0.5	0.9	<0.5	<0.5	--	--
10/25/94	125.98	112.59	13.39	--	<50	<0.5	0.8	<0.5	2.1	--	--
01/19/95	125.98	117.27	8.71	Well Abandoned	<50	<0.5	2.3	<0.5	<0.5	--	--

NO LONGER MONITORED OR SAMPLED

\*TPH-Diesel not detected at detection limit of 1000 ppb. Oil and Grease not detected at detection limit of 5000 ppb.

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	EDB
<b>MW-3</b>											
12/05/89	127.84	--	--	*	24,000	2400	1800	360	2600	<0.5	<0.5
12/05/89	127.84	--	--	Duplicate	24,000	2500	1900	390	2600	<0.5	<0.5
03/23/90	127.84	110.34	17.50	--	--	--	--	--	--	--	--
05/24/90	127.84	--	--	--	9000	2600	1700	250	1500	--	--
05/24/90	127.84	--	--	Duplicate	10,000	2600	1800	260	1600	--	--
09/06/90	126.77	108.05	18.72	--	3500	900	550	110	460	<0.5	<0.5
09/25/90	126.77	108.37	18.40	--	--	--	--	--	--	--	--
11/29/90	126.77	107.80	18.97	--	9200	1100	1100	210	1100	--	--
02/20/91	126.77	107.57	19.20	--	8800	960	780	200	920	--	--
04/19/91	126.77	108.96	17.81	--	--	--	--	--	--	--	--
05/22/91	126.77	108.89	17.88	--	28,000	5800	1200	460	2300	--	--
08/01/91	126.77	107.54	19.23	--	--	--	--	--	--	--	--
08/22/91	126.77	106.60	20.17	--	21,000	3100	2000	480	2000	--	--
08/22/91	126.77	--	--	Duplicate	19,000	2700	1800	420	1700	--	--
11/13/91	126.77	106.82	19.95	--	18,000	2400	1200	450	2200	--	--
01/30/92	126.77	107.63	19.14	--	18,000	3800	920	700	2600	--	--
04/23/92	126.77	109.02	17.75	--	46,000	5000	1900	1000	3500	--	--
07/27/92	126.77	107.77	19.00	--	26,000	4900	1100	1200	3600	--	--
10/26/92	126.77	107.15	19.62	--	6600	1100	41	220	570	--	--
01/29/93	126.77	110.82	15.95	--	32,000	5900	2900	1300	5000	--	--
04/30/93	126.77	111.10	15.67	--	14,000	6100	98	870	2400	--	--
07/14/93	126.77	109.94	16.83	--	12,000	3100	1100	720	2900	--	--
10/27/93	126.77	109.07	17.70	--	19,000	7800	400	1500	3400	--	--
01/13/94	126.77	110.23	16.54	--	51,000	3700	140	720	1800	--	--
04/22/94	126.77	109.75	17.02	--	22,000	9300	89	1200	2400	--	--
07/29/94	126.77	109.82	16.95	--	13,000	4700	44	580	420	--	--
10/25/94	126.77	109.11	17.66	--	24,000	8700	52	1500	1400	--	--
01/19/95	126.77	112.90	13.87	--	17,000	9300	36	1600	740	--	--
10/12/95	126.77	112.54	14.23	--	37,000	12,000	180	1800	1500	13,000	--
04/11/96	126.77	115.73	11.04	--	19,000	2400	81	1400	1500	6800	--
10/03/96	126.77	112.15	14.62	Well Abandoned	--	--	--	--	--	--	--

NO LONGER MONITORED OR SAMPLED

\*Oil and Grease not detected at detection limit of 5000 ppb.

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	EDB
<b>MW-4</b>											
12/05/89	125.22	--	--	--	19,000	390	1300	460	1800	<0.5	<0.5
03/23/90	125.22	109.20	16.02	--	--	--	--	--	--	--	--
05/24/90	125.22	--	--	--	4500	210	440	140	480	--	--
09/06/90	125.22	107.87	17.35	--	6000	680	520	170	580	<0.5	<0.5
09/25/90	125.22	107.74	17.48	--	--	--	--	--	--	--	--
11/29/90	125.22	107.61	17.61	--	15,000	800	1000	430	1700	--	--
02/20/91	125.22	107.41	17.81	--	15,000	640	390	420	1600	--	--
02/20/91	125.22	--	--	Duplicate	15,000	680	410	430	1600	--	--
04/19/91	125.22	109.42	15.80	--	--	--	--	--	--	--	--
05/22/91	125.22	108.54	16.68	--	9800	580	140	310	740	--	--
05/22/91	125.22	--	--	Duplicate	7200	520	130	270	670	--	--
 REDESIGNATED EW-3											
<b>EW-3</b>											
08/01/91	125.22	107.73	17.49	--	--	--	--	--	--	--	--
10/27/93	125.22	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/13/94	125.22	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/22/94	125.22	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/29/94	125.22	--	--	--	<50	1.3	1.3	0.6	5.3	--	--
10/25/94	125.22	109.02	16.20	--	--	--	--	--	--	--	--
01/19/95	125.22	112.51	12.71	--	240	45	0.8	22	48	--	--
04/03/97	125.22	112.89	12.33	--	450	140	<1.2	4.3	3.9	17	--
10/07/97	125.22	110.64	14.58	--	1900	510	<5.0	26	8.7	12	--
04/14/98	125.22	--	--	Inaccessible	--	--	--	--	--	--	--
10/13/98	125.22	112.74	12.48	--	1500	130	<2.5	9.0	4.7	3600	--
04/16/99	125.22	113.67	11.55	--	3800	280	37	270	300	2800	--

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	EDB
<b>MW-5</b>											
03/23/90	125.85	108.96	16.89	--	--	--	--	--	--	--	--
05/25/90	125.85	--	--	--	28,000	920	1100	460	1300	2.4	2.4
09/07/90	125.85	107.42	18.46	Free Product (0.04')	--	--	--	--	--	--	--
09/25/90	125.85	107.54	18.87	Free Product (1.30')	--	--	--	--	--	--	--
11/29/90	125.85	107.31	18.91	Free Product (0.71')	--	--	--	--	--	--	--
02/20/91	125.85	109.24	16.99	Free Product (0.47')	--	--	--	--	--	--	--
04/19/91	125.85	107.58	19.30	Free Product (0.48')	--	--	--	--	--	--	--
05/22/91	125.85	108.42	17.69	Free Product (0.33')	--	--	--	--	--	--	--
REDESIGNATED EW-2											
<b>EW-2</b>											
08/01/91	125.79	107.72	18.07	--	--	--	--	--	--	--	--
04/22/94	125.79	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/25/94	125.79	109.10	16.69	--	--	--	--	--	--	--	--
01/19/95	125.79	113.59	12.20	--	1700	540	69	56	400	--	--
05/01/95	125.79	113.63	12.16	--	<50	13	<0.5	<0.5	2.1	--	--
04/16/99	125.79	115.75	10.04	--	3500	350	160	130	550	3800	--

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	EDB
<b>MW-6</b>											
03/23/90	124.18	105.67	18.51	--	--	--	--	--	--	--	--
05/25/90	124.18	--	--	--	<50	<2.0	<3.0	<3.0	<3.0	<0.02	<0.02
09/07/90	124.18	108.00	16.18	--	<50	<2.0	<3.0	<3.0	<3.0	<0.05	<0.05
09/25/90	124.18	107.76	16.42	--	--	--	--	--	--	--	--
11/29/90	124.18	108.07	16.11	--	<50	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05
02/20/91	124.18	108.09	16.09	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/19/91	124.18	109.03	15.15	--	--	--	--	--	--	--	--
05/22/91	124.18	108.77	15.41	--	<50	0.5	0.7	<0.5	1.1	--	--
08/23/91	124.18	106.38	17.80	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/14/91	124.18	107.66	16.52	--	<50	<0.5	<0.5	<0.5	<0.5	<0.02	<0.02
11/14/91	124.18	--	--	Duplicate	<50	<0.5	0.6	<0.5	1.1	<0.05	<0.05
01/31/92	124.18	107.70	16.48	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/31/92	124.18	--	--	Duplicate	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/23/92	124.18	107.98	16.20	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/23/92	124.18	--	--	Duplicate	--	--	--	--	--	--	--
07/27/92	124.18	107.66	16.52	--	<50	1.2	0.6	<0.5	1.9	--	--
10/26/92	124.18	107.06	17.12	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/29/93	124.18	111.05	13.13	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/30/93	124.18	109.32	14.86	--	<50	<0.5	<0.5	<0.5	0.6	--	--
07/14/93	124.18	109.57	14.61	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/27/93	124.18	108.80	15.38	--	<50	0.9	1.0	0.6	1.0	--	--
01/13/94	124.18	108.84	15.34	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/22/94	124.18	109.11	15.07	--	<50	<0.5	<0.5	<0.5	2.5	--	--
07/29/94	124.18	108.88	15.30	--	<50	7.5	1.2	1.0	1.1	--	--
10/25/94	124.18	108.49	15.69	--	<50	<0.5	<0.5	<0.5	1.2	--	--
01/19/95	124.18	112.69	11.49	--	<50	<0.5	3.1	<0.5	0.6	--	--
10/11/95	124.18	110.02	14.16	--	--	--	--	--	--	--	--
11/07/95	124.18	109.88	14.30	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/11/96	124.18	113.55	10.63	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/03/96	124.18	110.84	13.34	Well Abandoned	--	--	--	--	--	--	--

NO LONGER MONITORED OR SAMPLED

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	EDB
<b>MW-7</b>											
03/23/90	126.86	105.46	21.40	--	--	--	--	--	--	--	--
05/25/90	126.86	--	--	--	<50	<2.0	<3.0	<3.0	<3.0	<0.02	<0.02
09/07/90	126.86	108.48	18.38	--	--	--	--	--	--	--	--
09/25/90	126.86	107.61	19.25	--	--	--	--	--	--	--	--
09/27/90	126.86	--	--	--	<50	<2.0	<3.0	<3.0	<3.0	<0.05	<0.05
09/27/90	126.86	--	--	Duplicate	<50	<2.0	<3.0	<3.0	<3.0	<0.05	<0.05
11/29/90	126.86	108.31	18.55	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/20/91	126.86	108.31	18.55	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/19/91	126.86	109.53	17.33	--	--	--	--	--	--	--	--
05/22/91	126.86	109.44	17.42	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
08/22/91	126.86	107.81	19.05	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/13/91	126.86	105.02	21.84	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/30/92	126.86	104.44	22.42	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/23/92	126.86	104.82	22.04	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/27/92	126.86	104.62	22.24	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/26/92	126.86	104.75	22.11	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/29/93	126.86	109.79	17.07	--	<50	4.0	13	2.0	8.0	--	--
04/30/93	126.86	112.00	14.86	--	<50	<0.5	<0.5	<0.5	0.6	--	--
07/14/93	126.86	110.76	16.10	--	<50	<0.5	1.0	<0.5	2.0	--	--
10/27/93	126.86	108.15	18.71	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/13/94	126.86	108.97	17.89	--	<50	<0.5	0.9	<0.5	1.0	--	--
04/22/94	126.86	109.92	16.94	--	<50	<0.5	<0.5	<0.5	1.3	--	--
07/29/94	126.86	110.16	16.70	--	74	19	8.2	7.8	11	--	--
10/25/94	126.86	109.44	17.42	--	<50	<0.5	0.6	<0.5	1.6	--	--
01/19/95	126.86	113.20	13.66	Well Abandoned	<50	<0.5	1.4	<0.5	<0.5	--	--

NO LONGER MONITORED OR SAMPLED

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	EDB
<b>MW-8</b>											
09/07/90	123.61	107.54	16.07	--	<50	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05
09/25/90	123.61	107.41	16.20	--	--	--	--	--	--	--	--
11/29/90	123.61	107.31	16.30	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/29/90	123.61	--	--	Duplicate	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/20/91	123.61	107.29	16.32	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/19/91	123.61	108.90	14.71	--	--	--	--	--	--	--	--
05/22/91	123.61	108.19	15.42	--	<50	0.6	<0.5	<0.5	1.0	--	--
08/22/91	123.61	106.46	17.15	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/14/91	123.61	106.62	16.99	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/30/92	123.61	107.31	16.30	--	<50	1.0	0.7	<0.5	1.1	--	--
04/23/92	123.61	108.56	15.05	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/27/92	123.61	107.53	16.08	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/26/92	123.61	106.89	16.72	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/29/93	123.61	110.79	12.82	--	1400	470	470	37	160	--	--
04/30/93	123.61	110.07	13.54	--	1600	<13	15	18	29	--	--
07/14/93	123.61	108.96	14.65	--	<50	<0.5	0.7	<0.5	2.0	--	--
10/27/93	123.61	108.57	15.04	--	<50	3.0	4.0	2.0	4.0	--	--
01/13/94	123.61	108.47	15.14	--	<50	<0.5	4.0	<0.5	<0.5	--	--
04/22/94	123.61	108.60	15.01	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/28/94	123.61	108.91	14.70	--	69	7.3	18	3.3	12	--	--
10/25/94	123.61	108.41	15.20	--	<50	<0.5	0.8	<0.5	1.6	--	--
01/19/95	123.61	111.61	12.00	--	<50	<0.5	3.1	<0.5	0.7	--	--
05/01/95	123.61	112.21	11.40	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/03/97	123.61	111.89	11.72	--	<200	<2.0	<2.0	<2.0	<2.0	610	--
10/07/97	123.61	110.01	13.60	--	<50	<0.5	<0.5	<0.5	<0.5	500	--
04/14/98	123.61	114.86	8.75	--	<50	<0.5	<0.5	<0.5	<0.5	120	--
10/13/98	123.61	110.89	12.72	--	270	<0.5	<0.5	<0.5	<0.5	2600	--
04/16/99	123.61	112.06	11.55	--	480	<2.0	<2.0	<2.0	<2.0	5000	--

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	EDB
<b>MW-9</b>											
08/22/91	124.20	106.60	17.60	--	9600	46	170	98	1200	<0.05	<0.05
11/14/91	124.20	106.72	17.48	--	11,000	130	58	86	1500	<0.05	<0.05
01/30/92	124.20	107.49	16.71	--	11,000	210	29	110	1900	--	--
04/23/92	124.20	108.97	15.23	--	17,000	180	25	100	1900	--	--
07/27/92	124.20	107.48	16.72	--	2800	59	1.6	18	280	--	--
10/26/92	124.20	106.98	17.22	--	3200	38	<0.5	19	200	--	--
01/29/93	124.20	110.81	13.39	--	1300	23	6.0	8.0	100	--	--
04/30/93	124.20	110.20	14.00	--	<1300	<13	<13	<13	58	--	--
07/14/93	124.20	109.12	15.08	--	1300	25	4.0	15	120	--	--
10/27/93	124.20	108.58	15.62	--	1100	21	10	19	73	--	--
01/13/94	124.20	108.61	15.59	--	80	0.7	3.0	0.6	3.0	--	--
04/22/94	124.20	108.77	15.43	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/29/94	124.20	109.00	15.20	--	1400	19	11	11	69	--	--
10/25/94	124.20	108.50	15.70	--	1200	11	2.0	7.6	28	--	--
01/19/95	124.20	111.62	12.58	--	380	1.6	4.3	1.5	11	--	--
05/01/95	124.20	112.24	11.96	--	350	1.1	<0.5	1.8	2.3	--	--
10/12/95	124.20	110.35	13.85	--	1700	3.8	<2.5	5.3	7.8	18	--
04/11/96	124.20	112.33	11.87	--	140	<0.5	<0.5	<0.5	<0.5	2.8	--
10/03/96	124.20	110.13	14.07	--	53	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/03/97	124.20	111.82	12.38	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/07/97	124.20	110.06	14.14	--	66	1.3	<0.5	<0.5	<0.5	<2.5	--
04/14/98	124.20	114.65	9.55	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/13/98	124.20	111.59	12.61	--	190	<0.5	<0.5	<0.5	<0.5	1900	--
04/16/99	124.20	113.19	11.01	--	3800	<12	<12	<12	<12	<del>4400</del>	--



## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	EDB
<b>MW-10</b>											
07/27/92	125.03	107.51	17.52	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/27/92	125.03	106.97	18.06	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/29/93	125.03	110.88	14.15	--	<50	<0.5	<0.5	<0.5	0.7	--	--
04/30/93	125.03	110.35	14.68	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/14/93	125.03	109.23	15.80	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/27/93	125.03	108.70	16.33	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/13/94	125.03	108.74	16.29	--	<50	<0.5	0.5	<0.5	<0.5	--	--
04/22/94	125.03	108.88	16.15	--	<50	<0.5	<0.5	<0.5	1.1	--	--
07/29/94	125.03	109.18	15.85	--	<50	0.8	2.1	0.5	1.3	--	--
10/25/94	125.03	108.62	16.41	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/19/95	125.03	111.74	13.29	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/01/95	125.03	112.43	12.60	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/11/95	125.03	110.49	14.54	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/11/96	125.03	112.56	12.47	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/03/96	125.03	110.29	14.74	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/03/97	125.03	112.04	12.99	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/07/97	125.03	110.17	14.86	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/14/98	125.03	114.79	10.24	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/13/98	124.69*	111.63	13.06	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/16/99	124.69	112.89	11.80	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--

\* Wellhead elevation altered due to wellhead maintenance.

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	EDB
<b>MW-11</b>											
07/27/92	122.92	107.54	15.38	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/26/92	122.92	106.95	15.97	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/29/93	122.92	110.68	12.24	--	<50	8.0	16	2.0	10	--	--
04/30/93	122.92	110.15	12.77	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/14/93	122.92	109.08	13.84	--	<50	<0.5	0.7	<0.5	1.0	--	--
10/27/93	122.92	108.69	14.23	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/13/94	122.92	108.68	14.24	--	<50	<0.5	1.0	<0.5	<0.5	--	--
04/22/94	122.92	108.84	14.08	--	<50	<0.5	0.5	<0.5	1.4	--	--
07/29/94	122.92	109.02	13.90	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/25/94	122.92	108.54	14.38	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/19/95	122.92	111.47	11.45	--	<50	<0.5	1.8	<0.5	<0.5	--	--
05/01/95	122.92	111.82	11.10	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/11/95	122.92	110.35	12.57	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/11/96	122.92	111.87	11.05	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/03/96	122.92	110.00	12.92	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/03/97	122.92	111.70	11.22	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/07/97	122.92	109.87	13.05	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/14/98	122.92	113.87	9.05	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/13/98	122.92	110.58	12.34	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/16/99	122.92	112.19	10.73	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	EDB
<b>EW-1</b>											
05/25/90	124.95	--	--	--	3900	260	430	64	340	0.03	0.03
08/01/91	124.95	107.41	17.54	--	--	--	--	--	--	--	--
10/27/93	124.95	--	--	--	350	<0.5	<0.5	<0.5	<0.5	--	--
01/13/94	124.95	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/22/94	124.95	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/29/94	124.95	--	--	--	97	0.6	0.5	0.6	5.1	--	--
01/19/95	124.95	112.32	12.63	Well Abandoned	3000	1600	100	350	760	--	--

NO LONGER MONITORED OR SAMPLED

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	EDB
<b>TRIP BLANK</b>											
02/20/91	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/22/91	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/22/91	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/13/91	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/30/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/23/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/27/92	--	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
10/26/92	--	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
01/29/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/30/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/14/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/27/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/13/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/22/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/29/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/25/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/19/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/01/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/12/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/11/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/03/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/03/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/07/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/14/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/13/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/16/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--

Note: Blaine Tech Services, Inc. began routine monitoring of the groundwater wells at this site on May 1, 1995.  
Earlier field data and analytical results provided by Sierra Environmental.

**ABBREVIATIONS:**

TPH = Total Petroleum Hydrocarbons  
 MTBE = Methyl t-Butyl Ether  
 EDB = Ethylene Dibromide

# Analytical Appendix



**Sequoia  
Analytical**

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Blaine Tech Services

1680 Rogers Avenue

San Jose, CA 95112

Attention: Christine Lillie

Client Proj. ID: Chevron 9-8139, 990416-C2

Lab Proj. ID: 9904813

Received: 04/16/99

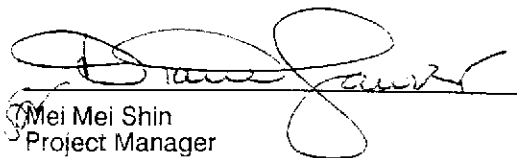
Reported: 04/30/99

### LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of \_\_\_\_\_ pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

TPGM2W: Samples 9904813-01,02 were run twice per client's request, MTBE were reported from GCHP03 on 4/28/99.

**SEQUOIA ANALYTICAL**

  
Mei Mei Shin  
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Chevron 9-8139, 990416-C2 Sample Descript: MW-8 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9904813-01	Sampled: 04/16/99 Received: 04/16/99 Analyzed: 04/28/99 Reported: 04/30/99
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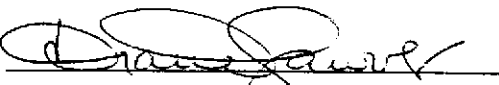
QC Batch Number: GC042899BTEX03A  
Instrument ID: GCHP03

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	200	480
Methyl t-Butyl Ether	100	5000
Benzene	2.0	N.D.
Toluene	2.0	N.D.
Ethyl Benzene	2.0	N.D.
Xylenes (Total)	2.0	N.D.
Chromatogram Pattern: Discrete Peak		C7
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	79

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL** - ELAP #1210

  
Mei Mei Shin  
Project Manager





# Sequoia Analytical

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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Chevron 9-8139, 990416-C2 Sample Descript: MW-9 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9904813-02	Sampled: 04/16/99 Received: 04/16/99 Analyzed: 04/28/99 Reported: 04/30/99
Attention: Christine Lillie		

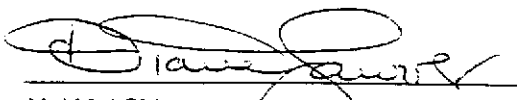
QC Batch Number: GC042899BTEX03A  
 Instrument ID: GCHP03

## Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	1250	3800
Methyl t-Butyl Ether	1000	4400
Benzene	12	N.D.
Toluene	12	N.D.
Ethyl Benzene	12	N.D.
Xylenes (Total)	12	N.D.
Chromatogram Pattern: Discrete Peak		C7
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	80

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL** - ELAP #1210

  
 Mei Mei Shin  
 Project Manager







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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Chevron 9-8139, 990416-C2 Sample Descript: MW-10 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9904813-03	Sampled: 04/16/99 Received: 04/16/99 Analyzed: 04/26/99 Reported: 04/30/99
Attention: Christine Lillie		

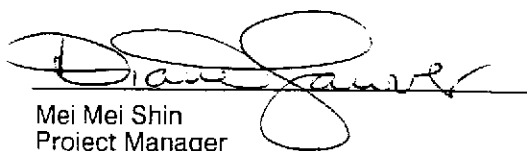
QC Batch Number: GC042699BTEX30A  
Instrument ID: GCHP30

## Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70                      130	106

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL** - ELAP #1210



Mei Mei Shin  
Project Manager



Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Chevron 9-8139, 990416-C2 Sample Descript: MW-11 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9904813-04	Sampled: 04/16/99 Received: 04/16/99  Analyzed: 04/27/99 Reported: 04/30/99
Attention: Christine Lillie		


QC Batch Number: GC042799BTEX02A  
Instrument ID: GCHP02

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70                      130	75

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL** - ELAP #1210

  
Mei Mei Shin  
Project Manager



# Sequoia Analytical

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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Chevron 9-8139, 990416-C2 Sample Descript: EW-2 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9904813-05	Sampled: 04/16/99 Received: 04/16/99 Analyzed: 04/27/99 Reported: 04/30/99
Attention: Christine Lillie		


QC Batch Number: GC042799BTEX02A  
Instrument ID: GCHP02

## Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	1000	3500
Methyl t-Butyl Ether	50	3800
Benzene	10	350
Toluene	10	160
Ethyl Benzene	10	130
Xylenes (Total)	10	550
Chromatogram Pattern:		GAS
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70                      130	75

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL** - ELAP #1210

  
 Mei Mei Shin  
 Project Manager



# Sequoia Analytical

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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Chevron 9-8139, 990416-C2 Sample Descript: EW-3 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9904813-06	Sampled: 04/16/99 Received: 04/16/99 Analyzed: 04/26/99 Reported: 04/30/99
Attention: Christine Lillie		


QC Batch Number: GC042699BTEX30A  
Instrument ID: GCHP30

## Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	1000	3800
Methyl t-Butyl Ether	50	2800
Benzene	10	280
Toluene	10	37
Ethyl Benzene	10	270
Xylenes (Total)	10	300
Chromatogram Pattern:		GAS
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70                      130	100

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL** - ELAP #1210



Mei Mei Shin  
Project Manager





**Sequoia  
Analytical**

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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Chevron 9-8139, 990416-C2 Sample Descript: TB Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9904813-07	Sampled: 04/16/99 Received: 04/16/99 Analyzed: 04/27/99 Reported: 04/30/99
--	--	---


QC Batch Number: GC042799BTEX02A  
Instrument ID: GCHP02

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	82

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL** - ELAP #1210

  
Mei Mei Shin  
Project Manager





# Sequoia Analytical

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Blaine Tech Services  
1680 Rogers Avenue  
San Jose, CA 95112  
Attention: Christine Lillie

Client Project ID: Chevron 9-8139, 990416-C2

QC Sample Group: 9904813 01-02

Reported: Apr 30, 1999

## QUALITY CONTROL DATA REPORT

<b>Matrix:</b>	Liquid
<b>Method:</b>	EPA 8015
<b>Analyst:</b>	MM
<b>ANALYTE</b>	Gasoline

QC Batch #: GC042899BTEX03A

Sample No.: GW9904A21-2

Date Prepared: 4/28/99

Date Analyzed: 4/28/99

Instrument I.D.#: GCHP03

Sample Conc., ug/L: N.D.

Conc. Spiked, ug/L: 250

Matrix Spike, ug/L: 230

% Recovery: 92

### Matrix

pike Duplicate, ug/L: 210

% Recovery: 84

Relative % Difference: 9.1

RPD Control Limits: 0-25

LCS Batch#: GC042899BTEX03A

Date Prepared: 4/28/99

Date Analyzed: 4/28/99

Instrument I.D.#: GCHP03

Conc. Spiked, ug/L: 250

LCS Recovery, ug/L: 230

LCS % Recovery: 92

### Percent Recovery Control Limits:

MS/MSD 60-140

LCS 70-130

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

  
SEQUOIA ANALYTICAL

### Please Note:

The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

Project Manager





# Sequoia Analytical

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FAX (650) 232-9612

Blaine Tech Services  
1680 Rogers Avenue  
San Jose, CA 95112  
Attention: Christine Lillie

Client Project ID: Chevron 9-8139, 990416-C2

QC Sample Group: 9904813 03, 06

Reported: Apr 30, 1999

## QUALITY CONTROL DATA REPORT

<b>Matrix:</b>	Liquid
<b>Method:</b>	EPA 8015
<b>Analyst:</b>	MM
<b>ANALYTE</b>	Gasoline

QC Batch #: GC042699BTEX30A

Sample No.: 9904649-17

Date Prepared: 4/26/99

Date Analyzed: 4/26/99

Instrument I.D.#: GCHP30

Sample Conc., ug/L: N.D.

Conc. Spiked, ug/L: 250

Matrix Spike, ug/L: 210

% Recovery: 84

**Matrix**

pike Duplicate, ug/L: 220

% Recovery: 88

relative % Difference: 4.7

RPD Control Limits: 0-25

LCS Batch#: GC042699BTEX30A

Date Prepared: 4/26/99

Date Analyzed: 4/26/99

Instrument I.D.#: GCHP30

Conc. Spiked, ug/L: 250

LCS Recovery, ug/L: 210

LCS % Recovery: 84

**Percent Recovery Control Limits:**

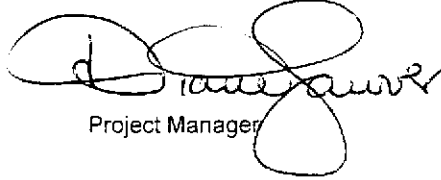
MS/MSD	60-140
LCS	70-130

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

**Please Note:**

The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

  
Project Manager



# Sequoia Analytical

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Blaine Tech Services  
1680 Rogers Avenue  
San Jose, CA 95112  
Attention: Christine Lillie

Client Project ID: Chevron 9-8139, 990416-C2

QC Sample Group: 9904813 04, 05, 07

Reported: Apr 30, 1999

## QUALITY CONTROL DATA REPORT

<b>Matrix:</b>	Liquid			
<b>Method:</b>	EPA 8020			
<b>Analyst:</b>	MM			
<b>ANALYTE</b>	Benzene	Toluene	Ethylbenzene	Xylenes

QC Batch #: GC042799BTEX02A

Sample No.: GW9904813-4

<b>Date Prepared:</b>	4/27/99	4/27/99	4/27/99	4/27/99
<b>Date Analyzed:</b>	4/27/99	4/27/99	4/27/99	4/27/99
<b>Instrument I.D.#:</b>	GCHP02	GCHP02	GCHP02	GCHP02
<b>Sample Conc., ug/L:</b>	N.D.	N.D.	N.D.	N.D.
<b>Conc. Spiked, ug/L:</b>	10	10	10	30
<b>Matrix Spike, ug/L:</b>	9.2	9.1	9.1	27
<b>% Recovery:</b>	92	91	91	90
<b>Matrix pike Duplicate, ug/L:</b>	9.1	9.1	9.1	27
<b>% Recovery:</b>	91	91	91	90
<b>relative % Difference:</b>	1.1	0.0	0.0	0.0
<b>RPD Control Limits:</b>	0-25	0-25	0-25	0-25

LCS Batch#: GC042799BTEX02A

<b>Date Prepared:</b>	4/27/99	4/27/99	4/27/99	4/27/99
<b>Date Analyzed:</b>	4/27/99	4/27/99	4/27/99	4/27/99
<b>Instrument I.D.#:</b>	GCHP02	GCHP02	GCHP02	GCHP02
<b>Conc. Spiked, ug/L:</b>	10	10	10	30
<b>LCS Recovery, ug/L:</b>	9.0	8.9	8.9	27
<b>LCS % Recovery:</b>	90	89	89	90

Percent Recovery Control Limits:

MS/MSD	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

Please Note:

The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

*Christine Lillie*  
Project Manager





Fax copy of Lab Report and COC to Chevron Contact:  Yes  No

# Chain-of-Custody-Record

Chevron Products Co.  
P.O. BOX 6004  
San Ramon, CA 94583  
FAX (925)842-8370

Chevron Facility Number 9-8139  
Facility Address 16304 Foothill Blvd., San Leandro  
Consultant Project Number 940516-C2  
Consultant Name BLAINE TECH SERVICE, INC.  
Address 1680 ROGERS AVE., SAN JOSE  
Project Contact (Name) CHRISTINE LILLIE  
(Phone) 408-573-0555 (Fax Number) 408-573-7771

Chevron Contact (Name) PHIL BRIGGS  
(Phone) (925) 842-9136  
Laboratory Name SEQUOIA  
Laboratory Service Order 9144488 243  
Laboratory Service Code ZZ02800  
Samples Collected by (Name) Christine Bantz  
Signature [Signature]

Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Sample Preservation	Date/Time	State Method: <input type="checkbox"/> CA <input type="checkbox"/> OR <input type="checkbox"/> WA <input type="checkbox"/> NW Series <input type="checkbox"/> CO <input type="checkbox"/> UT														Remarks		
					BTEX/MTBE/TPH GAS (8020 + 8015)	BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oxygenates (8260)	Purgeable Halocarbons (8010)	Purgeable Organics (8260)	Extractable Organics (8270)	Oil and Grease (8520)	Metals (ICAP or AA) Cd,Cr,Pb,Zn,Ni	BTEX (8020)	BTEX/MTBE/Naph. (8020)	TPH - HClD	TPH-D Extended	9904813		Lab Sample No.	
MW8	1	W	WCL	4/16/99 12:50	X															01	
MW9				12:55	X																02
MW10				12:55	X																03
MW11				13:15	X																04 05 16 E-52
EW2				11:35	X																05
EW3				11:55	X																06
T.B				4/16/99	X																07

Relinquished By (Signature) <u>[Signature]</u>	Organization <u>BLTS</u>	Date/Time <u>4.16.99</u> <u>1630</u>	Received By (Signature) <u>[Signature]</u>	Organization <u>SEQUOIA</u>	Date/Time <u>4.16.99</u> <u>1630</u>	Iced Y/N	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days 10 Days As Contracted
Relinquished By (Signature) <u>[Signature]</u>	Organization <u>SEQUOIA</u>	Date/Time <u>4.16.99</u>	Received By (Signature) <u>[Signature]</u>	Organization <u>Seq.</u>	Date/Time <u>4/16/99</u>	Iced Y/N <input checked="" type="checkbox"/>	
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)	Date/Time	Iced Y/N		



# IRON WELL MONITORING DATA SHEET

ID #: 990416-C2	Station #: 9-8139
Owner: CB	Date: 4/16/99
Well ID: MW 8	Well Diameter: <u>(2)</u> 3 4 6 8
Well Depth: 30.80	Depth to Water: 11.55
Distance to Free Product:	Thickness of Free Product (feet):
Material used to seal: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.163

Method: Bailer  Disposable Bailer  Middleburg  Electric Submersible  Extraction Pump

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

3	X	3	=	9	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
40	68.0	6.9	600	3	
43	67.8	6.9	800	6	
48	68.0	7.0	800	9	

Well dewater? Yes  No  Gallons actually evacuated: 9

Sampling Time: 12:50 Sampling Date: 4/16/99

Sample I.D.: MW 8 Laboratory: Sequoia CORE N. Creek Assoc. Labs

Analyzed for: TPH-G BTEX MTBE TPH-D Other: \_\_\_\_\_

uplicate I.D.: \_\_\_\_\_ Analyzed for: TPH-G BTEX MTBE TPH-D Other: \_\_\_\_\_

(if req'd):	Pre-purge:	mg/L	Post-purge:	
	Pre-purge:	mV	Post-purge:	

# CHEVRON WELL MONITORING DATA SHEET

0416-C2  
CB  
MW 9  
 Well Depth: 26.67  
 Depth to Free Product: \_\_\_\_\_  
 Referred to: PVC Grade \_\_\_\_\_

Station #: 9-8139  
 Date: 4/16/99  
 Well Diameter: 2 3 4 6 8 \_\_\_\_\_  
 Depth to Water: 11.01  
 Thickness of Free Product (feet): \_\_\_\_\_  
 D.O. Meter (if req'd): \_\_\_\_\_ YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.163

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

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

$$\frac{2.5}{1 \text{ Case Volume (Gals.)}} \times \frac{3}{\text{Specified Volumes}} = \frac{7.5}{\text{Calculated Volume}} \text{ Gals.}$$

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
12:28	70.0	7.3	200	3	
12:30	70.0	7.2	600	6	
12:34	70.0	7.3	600	8	

Did well dewater? Yes  No  Gallons actually evacuated: 8  
 Sampling Time: 12:35 Sampling Date: 4/16/99  
 Sample I.D.: MW 9 Laboratory: Sequoia CORE N. Creek Assoc. Labs

Analyzed for: TPH-G BTEX MTBE TPH-D Other: \_\_\_\_\_  
 Duplicate I.D.: \_\_\_\_\_ Analyzed for: TPH-G BTEX MTBE TPH-D Other: \_\_\_\_\_

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

# CHEVRON WELL MONITORING DATA SHEET

Project #: <u>990416-C2</u>	Station #: <u>9-8189</u>
Sampler: <u>CB</u>	Date: <u>4/16/99</u>
Well I.D.: <u>MW 10</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth: <u>29.50</u>	Depth to Water: <u>11.50</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.163

Purge Method:  Bailer  Disposable Bailer  Middleburg  Electric Submersible Extraction Pump

Other: \_\_\_\_\_

Sampling Method:  Bailer  Disposable Bailer  Extraction Port

Other: \_\_\_\_\_

<u>2.8</u>	x	<u>3</u>	=	<u>8.4</u> Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
<u>12:07</u>	<u>68.6</u>	<u>7.0</u>	<del>700</del> <u>700</u>	<u>3</u>	
<u>12:10</u>	<u>68.4</u>	<u>7.1</u>	<del>750</del> <u>750</u>	<u>6</u>	
<u>12:14</u>	<u>68.4</u>	<u>7.0</u>	<del>750</del> <u>750</u>	<u>9</u>	

Did well dewater? Yes  No  Gallons actually evacuated: 9

Sampling Time: 12:15 Sampling Date: 4/16/99

Sample I.D.: MW 10 Laboratory: (Sequoia) CORE N. Creek Assoc. Labs

Analyzed for: (TPH-G BTEX MTBE) TPH-D Other: \_\_\_\_\_

Duplicate I.D.: \_\_\_\_\_ Analyzed for: TPH-G BTEX MTBE TPH-D Other: \_\_\_\_\_

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

## CHEVRON WELL MONITORING DATA SHEET

Project #: 190416-C2	Station #: 9-8139
Sampler: CB	Date: 4/16/99
Well I.D.: MW 11	Well Diameter: (2) 3 4 6 8
Total Well Depth: 29.40	Depth to Water: 10.73
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.163

Purge Method:	Sampling Method:
Bailer	Bailer
Disposable Bailer	Disposable Bailer <input checked="" type="checkbox"/>
Middleburg	Extraction Port
Electric Submersible	Other: _____
Extraction Pump	
Other: _____	

<u>3</u>	x	<u>3</u>	=	<u>9</u>	Gals.
I Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
12:55	65.8	7.4	700	3	
13:05	66.0	7.2	750	6	
13:10	66.4	7.2	700	9	

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: 9
Sampling Time: 13:15	Sampling Date: 4/16/99
Sample I.D.: MW 11	Laboratory: (Sequoia) CORE N. Creek Assoc. Labs
Analyzed for: (TPH-G) BTEX (MTBE) TPH-D Other:	
Duplicate I.D.:	Analyzed for: TPH-G BTEX MTBE TPH-D Other:
D.O. (if req'd):	Pre-purge: <input type="text"/> mg/L Post-purge: <input type="text"/> mg/L
O.R.P. (if req'd):	Pre-purge: <input type="text"/> mV Post-purge: <input type="text"/> mV

# CHEVRON WELL MONITORING DATA SHEET

Project #: <del>2416776</del> 740416-C2	Station #: 9-8139
Sampler: CB	Date: 4/16/99
Well I.D.: BW2	Well Diameter: 3 4 6 8
Total Well Depth: 23.80	Depth to Water: 10.04
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.163

Purge Method: Bailer Disposable Bailer Middleburg Electric Submersible ✓ Extraction Pump	Sampling Method: Bailer Disposable Bailer ✓ Extraction Port Other: _____
Other: _____	

9	x	3	=	27	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
11:26	74.0	7.0	900	9	
11:28	72.2	7.1	900	18	
11:29	72.0	7.0	850	27	

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Gallons actually evacuated: 27
Sampling Time: 11:35	Sampling Date: 4/16/99
Sample I.D.: FW2	Laboratory: Sequoia CORE N. Creek Assoc. Labs
Analyzed for: TPH-G BTEX MTBE TPH-D Other:	

Duplicate I.D.:	Analyzed for: TPH-G BTEX MTBE TPH-D Other:
D.O. (if req'd):	Pre-purge: <span style="margin-left: 100px;">mg/L</span> Post-purge: <span style="margin-left: 100px;">mg/L</span>
O.R.P. (if req'd):	Pre-purge: <span style="margin-left: 100px;">mV</span> Post-purge: <span style="margin-left: 100px;">mV</span>

## CHEVRON WELL MONITORING DATA SHEET

Project #: <u>990416-C2</u>	Station #: <u>9-8139</u>
Sampler: <u>CB</u>	Date: <u>4/16/99</u>
Well I.D.: <u>EW-3</u>	Well Diameter: <del>2</del> <u>3</u> <del>4</del> <u>6</u> <u>8</u> _____
Total Well Depth: <u>29.90</u>	Depth to Water: <u>11.55</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.163

Purge Method: <u>Bailer</u> Disposable Bailer Middleburg Electric Submersible Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> Disposable Bailer ✓ Extraction Port Other: _____
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<u>12</u>	x	<u>3</u>	=	<u>36</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
<u>11:45</u>	<u>71.6</u>	<u>7.2</u>	<u>700</u>	<u>12</u>	<u>Good</u>
<u>11:48</u>	<u>69.0</u>	<u>7.2</u>	<u>680</u>	<u>24</u>	
<u>11:51</u>	<u>69.4</u>	<u>7.1</u>	<u>600</u>	<u>36</u>	

Did well dewater? Yes  No Gallons actually evacuated: 36

Sampling Time: 11:55 Sampling Date: 4/16/99

Sample I.D.: EW3 Laboratory: Sequoia CORE N. Creek Assoc. Labs

Analyzed for: TPH-G BTEX MTBE TPH-D Other: \_\_\_\_\_

Duplicate I.D.: \_\_\_\_\_ Analyzed for: TPH-G BTEX MTBE TPH-D Other: \_\_\_\_\_

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