

*Handwritten initials*



**Chevron**

April 5, 1996

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

**Chevron U.S.A. Products Company**  
6001 Bollinger Canyon Rd., Bldg. L  
P.O. Box 5004  
San Ramon, CA 94583-0804

**Site Assessment & Remediation Group**  
Phone (510) 842-9500

Re: Former Chevron Service Station #9-2384  
15526 Hesperian Blvd., San Lorenzo, CA

Dear Ms. Leech,

Please find attached the semi-annual groundwater report prepared by Blaine Tech dated March 26, 1996 describing the results of the sampling event performed on February 29, 1996.

The groundwater samples collected by Blaine Tech were analyzed for the presence of TPHG and BTEX constituents. The results from this sampling event were consistent with historical sampling events. Depth to groundwater was measured between 9.44 and 11.54 feet.

Chevron will continue with the semi-annual schedule currently in place for this site. As of April 1st, 96 I have taken on the monitoring of this site as Chevron's Groundwater Coordinator. If you have any questions or comments regarding this site please call. I can be reached by phone at (510) 842-9449 or by fax at (510) 842-5966.

Sincerely,

*Handwritten signature of Tammy L Hodge*

Tammy L Hodge  
Groundwater Coordinator  
Site Assessment and Remediation

ENVIRONMENTAL  
PROTECTION  
96 APR - 8 PM 4: 43

- cc:
- ~ Mr. Andy On, Insta-Lube  
736 West MacArthur Blvd., Oakland, CA 94609
- ~ Ms. Bette Owen, Chevron Property Development

March 26, 1996

Tammy Hodge  
Chevron U.S.A. Products Company  
P.O. Box 5004  
San Ramon, CA 94583-0804

### 1st Quarter 1996 Monitoring at 9-2384

First Quarter 1996 Groundwater Monitoring at  
Chevron Service Station Number 9-2384  
15526 Hesperian Blvd.  
San Lorenzo, CA

Monitoring Performed on February 29, 1996

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### Groundwater Sampling Report 960229-W-2

This report covers the routine quarterly 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 Chevron's Richmond Refinery for disposal.

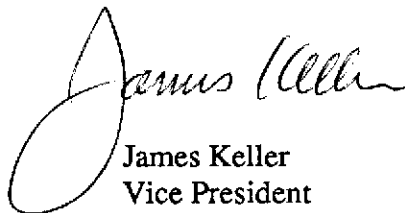
Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL DATA AND ANALYTICAL RESULTS**. The full analytical report for the most recent samples is located in the **Analytical Appendix**. The table also contains new groundwater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

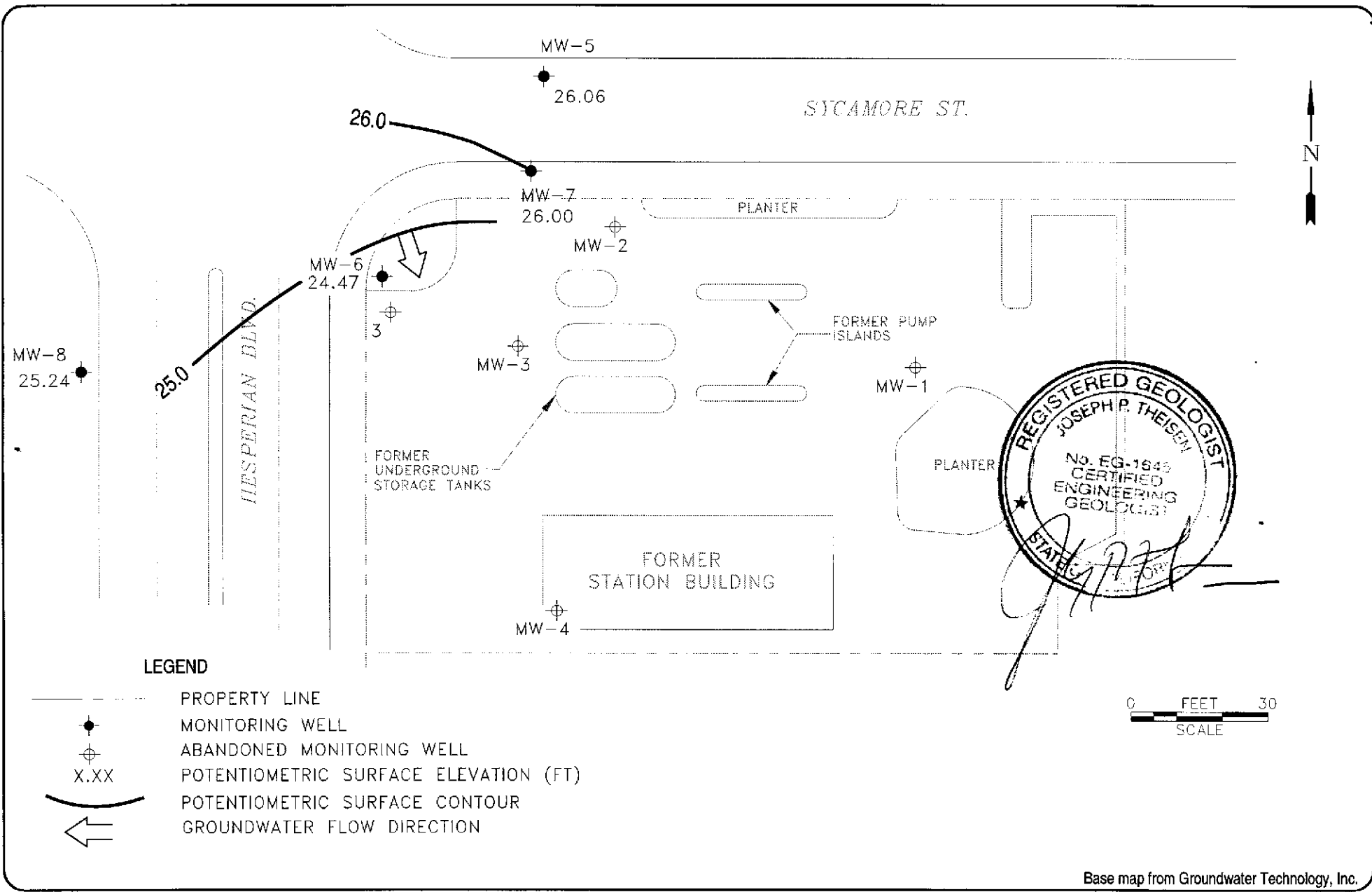


James Keller  
Vice President

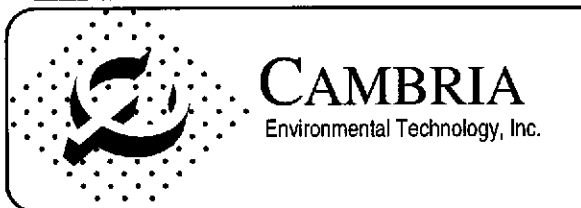
JPK/dk

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

# **Professional Engineering Appendix**



Base map from Groundwater Technology, Inc.



Former Chevron Station 9-2384  
15526 Hesperian Blvd.  
San Lorenzo, California  
VCHEVRON9-2384\2384-QM.DWG

Ground Water Elevation  
February 29, 1996

FIGURE  
**1**

# **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
<b>MW-1</b>										
06/04/92	35.64	22.52	13.12	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/30/92	35.64	21.82	13.82	--	--	--	--	--	--	--
08/25/92	35.64	21.44	14.20	--	--	--	--	--	--	--
09/23/92	35.64	21.05	14.59	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/29/92	35.64	21.36	14.28	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/19/93	35.64	24.74	10.90	--	<50	<0.5	<0.5	<0.5	<1.5	--
07/02/93	35.65	24.24	11.41	--	<50	<0.5	<0.5	<0.5	<1.5	--
09/22/93	35.65	22.88	12.77	--	<50	0.9	0.9	<0.5	<1.5	--
10/01/93	35.65	22.72	12.93	--	--	--	--	--	--	--
03/10/94	35.65	23.52	12.13	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/12/94	35.65	23.34	12.31	--	--	--	--	--	--	--
06/17/94	35.65	23.14	12.51	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/01/94	35.65	22.28	13.37	--	<50	<0.5	<0.5	<0.5	<0.5	--
11/28/94	35.65	22.35	13.30	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/14/95	35.65	25.22	10.43	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/28/95	--	--	--	Destroyed	--	--	--	--	--	--
<b>MW-2</b>										
06/04/92	35.85	22.37	13.48	--	6700	910	17	210	30	--
07/30/92	35.85	21.68	14.17	--	--	--	--	--	--	--
08/25/92	35.85	21.29	14.56	--	--	--	--	--	--	--
09/23/92	35.85	20.90	14.95	--	1500	110	1.2	81	<0.5	--
12/29/92	35.85	21.24	14.61	--	1200	51	1.1	27	<0.5	--
03/19/93	35.85	24.61	11.24	--	750	37	1.0	34	1.6	--
07/02/93	35.86	24.10	11.76	--	2100	45	1.4	87	4.8	--
09/22/93	35.86	22.74	13.12	--	880	23	2.8	38	<1.5	--
10/01/93	35.86	22.56	13.30	--	--	--	--	--	--	--
03/10/94	35.86	23.43	12.43	--	230	6.9	1.9	12	0.6	--
04/12/94	35.86	23.24	12.62	--	--	--	--	--	--	--
06/17/94	35.86	23.02	12.84	--	330	1.6	<0.5	3.9	2.5	--
09/01/94	35.86	22.19	13.67	--	400	3.0	2.0	6.4	<0.5	--
11/28/94	35.86	22.26	13.60	--	210	0.56	<0.5	1.1	<0.5	--
03/14/95	35.86	25.17	10.69	--	390	<0.5	<0.5	2.7	<0.5	--
06/28/95	--	--	--	Destroyed	--	--	--	--	--	--

## 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
<b>MW-3</b>										
06/04/92	35.42	22.30	13.12	--	460	12	0.8	5.8	14	--
07/30/92	35.42	21.61	13.81	--	--	--	--	--	--	--
08/25/92	35.42	21.22	14.20	--	--	--	--	--	--	--
09/23/92	35.42	20.84	14.58	--	1100	62	1.5	110	4.0	--
12/29/92	35.42	21.20	14.22	--	450	21	0.7	12	3.0	--
03/19/93	35.42	24.55	10.87	--	1200	67	1.3	96	5.5	--
07/02/93	35.43	24.06	11.37	--	610	73	0.5	42	<1.5	--
09/22/93	35.43	22.72	12.71	--	400	<0.5	0.6	2.7	<1.5	--
10/04/93	35.43	22.55	12.88	--	--	--	--	--	--	--
03/10/94	35.43	23.35	12.08	--	65	1.6	1.3	1.3	1.1	--
04/12/94	35.43	23.18	12.25	--	--	--	--	--	--	--
06/17/94	35.43	22.90	12.53	--	160	9.2	<0.5	2.9	2.7	--
09/01/94	35.43	22.15	13.28	--	190	3.2	1.1	3.1	6.5	--
11/28/94	35.43	22.23	13.20	--	51	<0.5	<0.5	<0.5	<0.5	--
03/14/95	35.43	25.09	10.34	--	1100	18	<2.5	89	<2.5	--
06/28/95	--	--	--	Destroyed	--	--	--	--	--	--
<b>MW-4</b>										
07/02/93	35.73	23.96	11.77	--	80	<0.5	0.6	<0.5	<1.5	--
09/22/93	35.73	--	--	--	--	--	--	--	--	--
10/01/93	35.73	22.61	13.12	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/10/94	35.73	--	--	--	--	--	--	--	--	--
04/12/94	35.73	23.11	12.62	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/17/94	35.73	22.90	12.83	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/01/94	35.73	22.05	13.68	--	<50	<0.5	<0.5	<0.5	<0.5	--
11/28/94	35.73	22.15	13.58	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/14/95	35.73	24.83	10.90	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/28/95	--	--	--	Destroyed	--	--	--	--	--	--



## 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
<b>MW-5</b>										
07/02/93	35.50	24.08	11.42	--	<50	<0.5	<0.5	<0.5	<1.5	--
09/22/93	35.50	--	--	--	--	--	--	--	--	--
10/01/93	35.50	--	--	--	--	--	--	--	--	--
03/10/94	35.50	--	--	--	--	--	--	--	--	--
04/12/94	35.50	23.25	12.25	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/17/94	35.50	23.02	12.48	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/01/94	35.50	22.17	13.33	--	<50	<0.5	<0.5	<0.5	<0.5	--
11/28/94	35.50	22.28	13.22	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/14/95	35.50	25.18	10.32	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/28/95	35.50	25.10	10.40	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/25/95	35.50	23.47	12.03	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/19/95	35.50	23.13	12.37	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
02/29/96	35.50	26.06	9.44	Sampled annually	<50	<0.5	<0.5	<0.5	<0.5	<2.5
<b>MW-6</b>										
07/02/93	36.01	23.94	12.07	--	14,000	330	28	980	580	--
09/22/93	36.01	--	--	--	--	--	--	--	--	--
10/01/93	36.01	23.30	12.71	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/10/94	36.01	--	--	--	--	--	--	--	--	--
04/12/94	36.01	23.11	12.90	--	3400	32	<0.5	0.7	67	--
06/17/94	36.01	22.80	13.21	--	2200	16	<0.5	30	17	--
09/01/94	36.01	22.03	13.98	--	4100	62	3.9	93	53	--
11/28/94	36.01	22.15	13.86	--	1400	10	<1.0	18	9.8	--
03/14/95	36.01	24.99	11.02	--	4200	12	<10	92	39	--
06/28/95	36.01	24.89	11.12	--	4100	52	<5.0	<5.0	18	--
09/25/95	36.01	23.34	12.67	--	2500	<5.0	<5.0	25	25	--
01/04/96	36.01	21.85	14.16	--	4800	5.7	<5.0	66	53	60
02/29/96	36.01	24.47	11.54	Sampled biannually	2100	<0.5	<0.5	11	9.4	<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
<b>MW-7</b>										
09/25/95	35.50	23.45	12.05	--	1400	<2.5	<2.5	<2.5	<2.5	--
12/19/95	35.50	23.17	12.33	--	2100	<5.0	<5.0	<5.0	<5.0	<25
02/29/96	35.50	26.00	9.50	Sampled biannually	380	<0.5	<0.5	<0.5	<0.5	<2.5
 <b>MW-8</b>										
09/25/95	35.84	22.92	12.92	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/19/95	35.84	22.48	13.36	--	<50	<0.5	<0.5	<0.5	<0.5	91
02/29/96	35.84	25.24	10.60	Sampled biannually	<50	<0.5	<0.5	<0.5	<0.5	76

## 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
<b>TRIP BLANK</b>										
06/04/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/23/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/29/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/19/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
07/02/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
09/22/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
10/01/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/10/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/12/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/17/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/01/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
11/28/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/14/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/28/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/25/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/19/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
02/29/96	--	--	--	--	<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 November 1, 1994.

Earlier field data and analytical results are drawn from the September 27, 1994 Groundwater Technology, Inc. report.

**ABBREVIATIONS:**

TPH = Total Petroleum Hydrocarbons

MTBE = Methyl t-butyl ether

# **Analytical Appendix**



Blaine Technical Services 985 Timothy Drive San Jose, CA 95133 Attention: Jim Keller	Client Proj. ID: Chevron 9-2384,960229-W2 Sample Descript: MW5 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9603102-01	Sampled: 02/29/96 Received: 03/01/96 Analyzed: 03/05/96 Reported: 03/07/96
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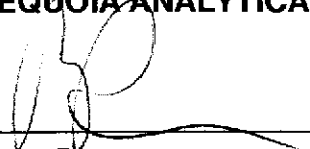
QC Batch Number: GC030596BTEX02A  
Instrument ID: GCHP02

**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	93

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

**SEQUOIA ANALYTICAL** - ELAP #1210

  
Peggy Penner  
Project Manager





Blaine Technical Services  
985 Timothy Drive  
San Jose, CA 95133

Client Proj. ID: Chevron 9-2384,960229-W2  
Sample Descript: MW6  
Matrix: LIQUID  
Analysis Method: 8015Mod/8020  
Lab Number: 9603102-02

Sampled: 02/29/96  
Received: 03/01/96  
Analyzed: 03/06/96  
Reported: 03/07/96

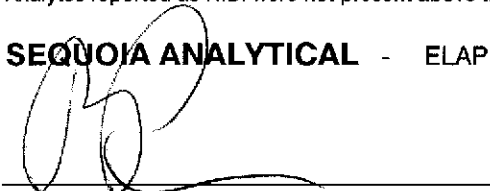
QC Batch Number: GC030696BTEX20A  
Instrument ID: GCHP20

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

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	2100
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	11
Xylenes (Total)	0.50	9.4
Chromatogram Pattern: Weathered Gas		C9-C12
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	108

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

**SEQUOIA ANALYTICAL** - ELAP #1210

  
Peggy Penner  
Project Manager





Blaine Technical Services 985 Timothy Drive San Jose, CA 95133 Attention: Jim Keller	Client Proj. ID: Chevron 9-2384,960229-W2 Sample Descript: MW7 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9603102-03	Sampled: 02/29/96 Received: 03/01/96 Analyzed: 03/05/96 Reported: 03/07/96
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QC Batch Number: GC030596BTEX02A  
Instrument ID: GCHP02

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

Analyte	Detection Limit ug/L	Sample Results ug/L
<b>TPPH as Gas</b>	<b>50</b>	<b>380</b>
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>Weathered Gas</b>		<b>C8-C12</b>
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70                      130	96

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

**SEQUOIA ANALYTICAL** - ELAP #1210

Peggy Penner  
Project Manager





Blaine Technical Services	Client Proj. ID: Chevron 9-2384,960229-W2	Sampled: 02/29/96
985 Timothy Drive	Sample Descript: MW8	Received: 03/01/96
San Jose, CA 95133	Matrix: LIQUID	
Attention: Jim Keller	Analysis Method: 8015Mod/8020	Analyzed: 03/05/96
	Lab Number: 9603102-04	Reported: 03/07/96

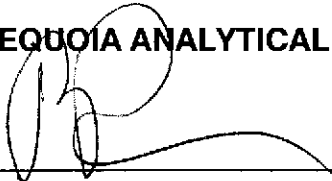
QC Batch Number: GC030596BTEX02A  
Instrument ID: GCHP02

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

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
<b>Methyl t-Butyl Ether</b>	<b>2.5</b>	<b>76</b>
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	91

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

**SEQUOIA ANALYTICAL** - ELAP #1210



\_\_\_\_\_  
Peggy Penner  
Project Manager







Blaine Technical Services 985 Timothy Drive San Jose, CA 95133	Client Proj. ID: Chevron 9-2384,960229-W2 Sample Descript: TB Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9603102-05	Sampled: 02/29/96 Received: 03/01/96 Analyzed: 03/05/96 Reported: 03/07/96
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QC Batch Number: GC030596BTEX02A  
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:		

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70                      130	86

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

**SEQUOIA ANALYTICAL** - ELAP #1210

  
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Peggy Penner  
Project Manager





# Sequoia Analytical

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Blaine Tech Services, Inc.  
985 Timothy Drive  
San Jose, CA 95133  
Attention: Jim Keller

Client Project ID: Chevron 9-2384, 960229-W2  
Matrix: Liquid

Work Order #: 9603102 -01, 03-05

Reported: Mar 13, 1996

## QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC030596BTEX02A	GC030596BTEX02A	GC030596BTEX02A	GC030596BTEX02A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	J. Woo	J. Woo	J. Woo	J. Woo
MS/MSD #:	9602G1401	9602G1401	9602G1401	9602G1401
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/5/96	3/5/96	3/5/96	3/5/96
Analyzed Date:	3/5/96	3/5/96	3/5/96	3/5/96
Instrument I.D.#:	GCHP2	GCHP2	GCHP2	GCHP2
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	10	10	9.9	30
MS % Recovery:	100	100	99	100
Dup. Result:	10	10	10	30
MSD % Recov.:	100	100	100	100
RPD:	0.0	0.0	1.0	0.0
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:	BLK030596	BLK030596	BLK030596	BLK030596
Prepared Date:	3/5/96	3/5/96	3/5/96	3/5/96
Analyzed Date:	3/5/96	3/5/96	3/5/96	3/5/96
Instrument I.D.#:	GCHP2	GCHP2	GCHP2	GCHP2
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	10	10	10	30
LCS % Recov.:	100	100	100	100

MS/MSD LCS Control Limits	70-130	70-130	70-130	70-130
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SEQUOIA ANALYTICAL

Peggy Penner  
Project Manager

**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.

\*\* MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9603102.BLA <1>





Blaine Tech Services, Inc.  
985 Timothy Drive  
San Jose, CA 95133  
Attention: Jim Keller

Client Project ID: **Chevron 9-2384, 960229-W2**  
Matrix: **Liquid**

Work Order #: **9603102-02**

Reported: **Mar 13, 1996**

**QUALITY CONTROL DATA REPORT**

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC030696BTEX20A	GC030696BTEX20A	GC030696BTEX20A	GC030696BTEX20A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	J. Woo	J. Woo	J. Woo	J. Woo
MS/MSD #:	9602J3501	9602J3501	9602J3501	9602J3501
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/6/96	3/6/96	3/6/96	3/6/96
Analyzed Date:	3/6/96	3/6/96	3/6/96	3/6/96
Instrument I.D.#:	GCHP20	GCHP20	GCHP20	GCHP20
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	10	10	9.9	30
MS % Recovery:	100	100	99	100
Dup. Result:	10	10	9.7	29
MSD % Recov.:	100	100	97	97
RPD:	0.0	0.0	2.0	3.4
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:	BLK030696	BLK030696	BLK030696	BLK030696
Prepared Date:	3/6/96	3/6/96	3/6/96	3/6/96
Analyzed Date:	3/6/96	3/6/96	3/6/96	3/6/96
Instrument I.D.#:	GCHP20	GCHP20	GCHP20	GCHP20
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	10	10	9.8	30
LCS % Recov.:	100	100	98	100

MS/MSD LCS Control Limits	70-130	70-130	70-130	70-130
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**SEQUOIA ANALYTICAL**  
  
Peggy Fenner  
Project Manager

**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.





# **Field Data Sheets**



# CHEVRON WELL MONITORING DATA SHEET

Project #: <u>960229-W2</u>	Station #: <u>9-2384</u>
Sampler: <u>WJ</u>	Start Date: <u>2/29/96</u>
Well I.D.: <u>MWS</u>	Well Diameter: (circle one) <u>(2)</u> 3 4 6
Total Well Depth: <u>20.36</u>	Depth to Water: <u>944</u>
Before                      After	Before                      After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: <u>PVC</u>	Grade                      Other:

Well Diameter	VCF	Well Diameter	VCF
1"	0.04	6"	1.47
2"	0.16	8"	2.61
3"	0.37	10"	4.08
4"	0.65	12"	5.87
5"	1.02	16"	10.43

<u>1.7</u>	<u>x</u>	<u>3</u>	<u>=</u>	<u>5.1</u>
1 Case Volume		Specified Volumes		gallons

Purging: Bailer Disposable Bailer <input checked="" type="checkbox"/> Middleburg Electric Submersible Extraction Pump Other _____	Sampling: Bailer Disposable Bailer <input checked="" type="checkbox"/> Extraction Port Other _____
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TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
12:56	64.6	6.8	1000	—	2.0	
13:00	65.6	7.0	1000	—	4.0	
13:05	64.8	7.0	1000	—	5.5	

Did Well Dewater? N If yes, gals.                      Gallons Actually Evacuated: 5.5

Sampling Time: 13:10                      Sampling Date: 2/29

Sample I.D.: MWS                      Laboratory: SEL

Analyzed for: (TPH-G) (BTEX) TPH-D    OTHER: mbs  
 (Circle)

Duplicate I.D.:                      Cleaning Blank I.D.:

Analyzed for: TPH-G BTEX TPH-D    OTHER:  
 (Circle)

# CHEVRON WELL MONITORING DATA SHEET

Project #: <u>960229W2</u>	Station #: <u>9-2384</u>
Sampler: <u>WJ</u>	Start Date: <u>2/29/96</u>
Well I.D.: <u>MW6</u>	Well Diameter: (circle one) <u>2</u> 3 4 6
Total Well Depth: <u>23.58</u>	Depth to Water: <u>11.54</u>
Before	After
Before	After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: <u>PVC</u>	Grade Other:

Well Diameter	VCF	Well Diameter	VCF
1"	0.04	6"	1.47
2"	0.16	8"	2.61
3"	0.37	10"	4.08
4"	0.65	12"	5.87
5"	1.02	16"	10.43

<u>1.9</u>	<u>x</u>	<u>3</u>	<u>=</u>	<u>5.7</u>	
1 Case Volume		Specified Volumes		gallons	

Purging: Bailer Disposable Bailer <input checked="" type="checkbox"/> Middleburg Electric Submersible Extraction Pump Other _____	Sampling: Bailer Disposable Bailer <input checked="" type="checkbox"/> Extraction Port Other _____
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TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
13:42	62.2	7.0	1000	—	2.0	BROWN/SILTY
13:48	61.6	7.0	1000	—	4.0	
13:54	61.4	7.0	1000	—	6.0	

Did Well Dewater? N If yes, gals. Gallons Actually Evacuated: 0.0

Sampling Time: 13:55 Sampling Date: 2/29

Sample I.D.: MW6 Laboratory: HER

Analyzed for: TPH-G BTEX TPH-D OTHER: MTBE  
(Circle)

Duplicate I.D.: Cleaning Blank I.D.:

Analyzed for: TPH-G BTEX TPH-D OTHER:  
(Circle)



# CHEVRON WELL MONITORING DATA SHEET

Project #: <u>960229-W2</u>	Station #: <u>9-2384</u>
Sampler: <u>WJ</u>	Start Date: <u>2/29/96</u>
Well I.D.: <u>MW7</u>	Well Diameter: (circle one) <u>(2)</u> 3 4 6
Total Well Depth: <u>21.70</u>	Depth to Water: <u>9.50</u>
Before After	Before After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: <u>PVC</u>	Grade Other:

Well Diameter	VCF	Well Diameter	VCF
1"	0.04	6"	1.47
2"	0.16	8"	2.61
3"	0.37	10"	4.08
4"	0.65	12"	5.87
5"	1.02	16"	10.43

<u>2.0</u>	x	<u>3</u>	=	<u>6.0</u>
1 Case Volume		Specified Volumes		gallons

Purging: Bailer Disposable Bailer <input checked="" type="checkbox"/> Middleburg Electric Submersible Extraction Pump Other _____	Sampling: Bailer Disposable Bailer <input checked="" type="checkbox"/> Extraction Port Other _____
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TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
13:19	63.0	7.0	1400	—	2.0	
13:24	64.2	7.0	1400	—	4.0	
13:29	63.8	7.1	1400	—	6.0	

Did Well Dewater?  If yes, gals.      Gallons Actually Evacuated: 6.0

Sampling Time: 13:30      Sampling Date: 2/29

Sample I.D.: MW7      Laboratory: SPX

Analyzed for: TPH-G BTEX    TPH-D    OTHER: mtc  
 (Circle)

Duplicate I.D.:      Cleaning Blank I.D.:

Analyzed for: TPH-G BTEX TPH-D OTHER:  
 (Circle)

# CHEVRON WELL MONITORING DATA SHEET

Project #: <u>960229-W2</u>	Station #: <u>9-2384</u>
Sampler: <u>WJ</u>	Start Date: <u>2/29/96</u>
Well I.D.: <u>MW8</u>	Well Diameter: (circle one) <u>2</u> 3 4 6
Total Well Depth: <u>20.50</u>	Depth to Water: <u>10.60</u>
Before	After
Before	After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: <u>PVC</u>	Grade Other:

Well Diameter	VCF	Well Diameter	VCF
1"	0.04	6"	1.47
2"	0.16	8"	2.61
3"	0.37	10"	4.08
4"	0.65	12"	5.87
5"	1.02	16"	10.43

<u>1.6</u>	x	<u>3</u>	=	<u>4.8</u>
1 Case Volume		Specified Volumes		gallons

Purging: Bailer Disposable Bailer <input checked="" type="checkbox"/> Middleburg Electric Submersible Extraction Pump Other _____	Sampling: Bailer Disposable Bailer <input checked="" type="checkbox"/> Extraction Port Other _____
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TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
<u>12:52</u> <del>65</del>	<u>65.8</u>	<u>6.6</u>	<u>1400</u>	—	<u>2.0</u>	
<u>12:36</u>	<u>64.2</u>	<u>6.8</u>	<u>1600</u>	—	<u>4.0</u>	
<u>12:40</u>	<u>64.0</u>	<u>6.9</u>	<u>1600</u>	—	<u>5.0</u>	

Did Well Dewater?  If yes, gals. Gallons Actually Evacuated: 5.0

Sampling Time: 12:45 Sampling Date: 2/29

Sample I.D.: MW8 Laboratory: SEC

Analyzed for: TPH-G BTEX TPH-D OTHER: mmB6

Duplicate I.D.: Cleaning Blank I.D.:

Analyzed for: TPH-G BTEX TPH-D OTHER:

HETERIAN  
SAN LORENZO

CHEVRON WELL MONITORING DATA SHEET

Project #: 960104-LA Station #: 9-2384  
 Sampler: LAD Start Date: 1-5-96  
 Well I.D.: MW-6 Well Diameter: (circle one) (2) 3 4 6  
 Total Well Depth: Before 23.56 After \_\_\_\_\_ Depth to Water: Before 14.16 After \_\_\_\_\_  
 Depth to Free Product: \_\_\_\_\_ Thickness of Free Product (feet): \_\_\_\_\_  
 Measurements referenced to: (FVC) Grade Other: \_\_\_\_\_

Well Diameter	VCF	Well Diameter	VCF
1"	0.04	6"	1.47
2"	0.16	8"	2.61
3"	0.37	10"	4.08
4"	0.65	12"	5.87
5"	1.02	16"	10.43

1.5 x 3 = 4.5  
 1 Case Volume Specified Volumes = gallons

Purging: Bailer  
 Disposable Bailer   
 Middleburg  
 Electric Submersible  
 Extraction Pump  
 Other \_\_\_\_\_

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

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
<u>1452</u>	<u>59.6</u>	<u>7.6</u>	<u>960.</u>	<u>—</u>	<u>2.</u>	<u>ODOR</u>
<u>1456</u>	<u>59.8</u>	<u>7.6</u>	<u>930.</u>	<u>—</u>	<u>3.</u>	
<u>1500</u>	<u>59.2</u>	<u>7.6</u>	<u>920.</u>	<u>—</u>	<u>5</u>	

Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 5

Sampling Time: 1505 Sampling Date: 1-5-96  
 Sample I.D.: MW-6 Laboratory: SEQ UOIA  
 Analyzed for: (TPH-G) (BTEX) TPH-D OTHER:  
MTBE  
 Duplicate I.D.: \_\_\_\_\_ Cleaning Blank I.D.: \_\_\_\_\_  
 Analyzed for: TPH-G BTEX TPH-D OTHER:  
 (Circle)