

ENVIRONMENTAL  
PROTECTION

97 AUG -7 PM 3:59



**Chevron**

August 5, 1997

Dr. Ravi Arulanantham  
RWQCB- San Francisco Bay Region  
2101 Webster Street, Suite 500  
Oakland, CA 94612

**Chevron Products Company**  
6001 Bollinger Canyon Road  
Building L  
San Ramon, CA 94583  
P.O. Box 6004  
San Ramon, CA 94583-0904

**Marketing - Sales West**  
Phone 510 842-9500

**Re: Former Chevron Service Station #9-3864  
5101 Telegraph Avenue, Oakland, CA**

Dear Dr. Arulanantham:

Enclosed is the Second Quarter Groundwater Monitoring Report for 1997, that was prepared by our consultant Blaine Tech Services, Inc. for the above noted site. Ground water samples were collected and analyzed for TPH-g, BTEX and MtBE constituents. Monitoring wells C-1, C-2 and C-4 have been abandoned.

Concentrations of dissolved TPH-g, BTEX and MtBE constituents were below method detection limits for monitoring wells MW-1, MW-2, and MW-5. Benzene constituents decreased in monitoring wells C-3 and MW-4 and increased slightly in well MW-3. Monitoring well MW-4 is upgradient of the site.

Depth to ground water varied from 11.67 feet to 15.68 feet below grade, with a direction of flow southwesterly.

Since monitoring wells MW-1, MW-2 and MW-5 are crossgradient of the site, and have been below method detection limits for the TPH-g and BTEX constituents for the last ten quarters, and seven quarters for the MtBE constituent, **Chevron requests that these wells be sampled annually. Chevron also requests that the three remaining wells be sampled semi-annually.**

If you have any questions or comments, call me at (510) 842-9136.

Sincerely,  
**CHEVRON PRODUCTS COMPANY**

Philip R. Briggs  
Site Assessment and Remediation Project Manger

Enclosure

August 5, 1997  
Dr. Ravi Arulanantham  
Former Chevron Service Station # 9-3864  
Page 2

cc. Mr. Bette Owen, Chevron

Ms. Susan Hugo  
Alameda County Health Care Services  
Department of Environmental Health  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

Mr. Howard Schindler and Mr. Saul Gevertz & Mr. Jon Eager  
Temescal Triangle Investors  
4179 Piedmont Avenue  
Oakland, CA 94611

Mr. Breece Sloan  
2057 Vanderslice Avenue  
Walnut Creek, CA 94596

Mr. John Gwynn  
Gwynn-Schiels & Associates  
300 Lakeside Drive, Suite 1980  
Oakland, CA 94612

**BLAINE**  
TECH SERVICES



1680 ROGERS AVENUE  
SAN JOSE, CALIFORNIA 95112  
(408) 573-7771 FAX  
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ENVIRONMENTAL  
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97 AUG -7 PM 3: 59

July 29, 1997

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

**2nd Quarter 1997 Monitoring at 9-3864**

Second Quarter 1997 Groundwater Monitoring at  
Chevron Service Station Number 9-3864  
5101 Telegraph Avenue  
Oakland, CA

Monitoring Performed on June 29, 1997

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**Groundwater Sampling Report 970629-X-1**

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 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

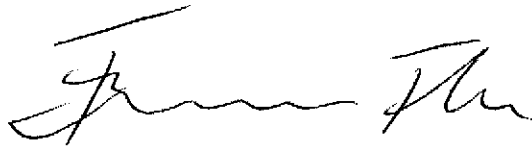
also contains new groundwater elevation calculations taken from the computer plotted gradient map which is located in the **Professional Engineering Appendix**.

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,

A handwritten signature in black ink, appearing to read 'Francis Thie', written in a cursive style.





Francis Thie  
Vice President

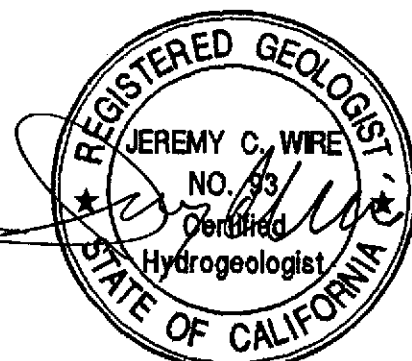
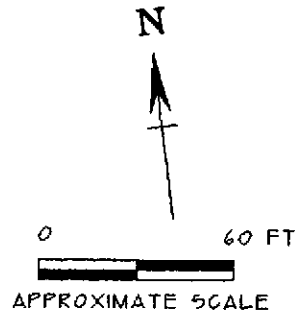
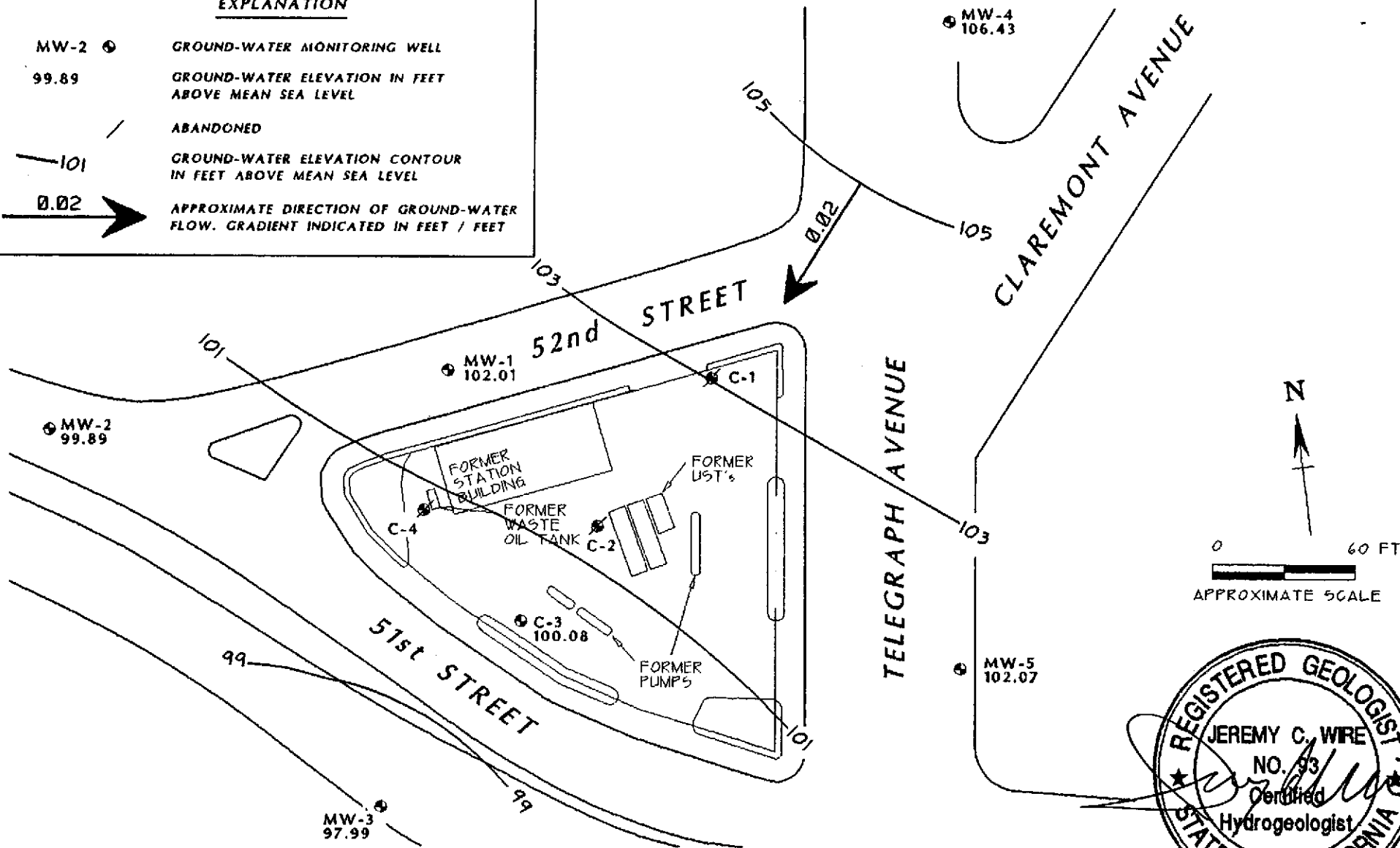
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attachments: Professional Engineering Appendix  
Cumulative Table of Well Data and Analytical Results  
Analytical Appendix  
Field Data Sheets

# **Professional Engineering Appendix**

**EXPLANATION**

- MW-2  GROUND-WATER MONITORING WELL
- 99.89 GROUND-WATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
-  ABANDONED
- 101  GROUND-WATER ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL
- 0.02  APPROXIMATE DIRECTION OF GROUND-WATER FLOW. GRADIENT INDICATED IN FEET / FEET



<p>NOTES:</p>	<p><b>TITLE</b> : GROUND-WATER ELEVATION CONTOUR MAP - JUNE 29, 1997</p> <p><b>LOCATION</b> : FORMER CHEVRON SERVICE STATION 9-3864 5101 TELEGRAPH AVENUE, OAKLAND, CALIFORNIA</p> <p><b>SOURCE</b> : CAMBRIA ENVIRONMENTAL TECHNOLOGY, INC.</p>		<p><b>GEOCONSULTANTS, INC</b></p> <p>SAN JOBE, CALIFORNIA</p> <p>Project No. G758-00</p> <p>DRWG NO: W062997   REV:</p>
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# **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>C-1</b>										
12/06/90	117.45	102.11	15.34	--	1900	17	11	3.0	21	--
06/06/91	117.45	102.83	14.62	--	3400	21	15	11	18	--
12/04/91	117.45	102.97	14.48	--	2700	22	16	13	23	--
06/02/92	117.45	102.92	14.53	--	1900	170	170	13	83	--
09/16/92	117.45	102.52	14.93	--	810	5.8	5.7	2.0	6.3	--
12/21/92	117.45	103.72	13.73	--	75	2.4	2.9	1.4	4.7	--
03/11/93	117.45	103.62	13.83	--	150	2.4	20	3.3	23	--
06/11/93	117.45	103.26	14.19	--	400	4.3	2.3	1.0	3.5	--
09/13/93	117.45	102.85	14.60	--	4100	62	43	34	57	--
12/14/93	117.45	103.67	13.78	--	3100	9.5	4.5	1.2	11	--
03/16/94	117.45	103.44	14.01	--	410	6.3	3.1	1.3	4.5	--
06/17/94	117.45	102.90	14.55	--	3700	100	42	30	91	--
08/29/94	117.45	102.96	14.49	--	2600	15	<0.5	6.7	9.7	--
12/06/94	117.45	104.04	13.41	--	510	2.0	2.2	1.7	9.4	--
03/31/95	117.45	105.33	12.12	--	5440	9.0	2.3	2.0	3.6	--
06/24/95	117.45	103.45	14.00	--	260	5.8	1.0	0.94	0.88	--
09/12/95	117.45	103.42	14.03	--	650	14	1.1	1.6	2.4	--
12/29/95	117.45	104.50	12.95	--	990	32	6.3	4.0	3.2	46
02/29/96	117.45	105.27	12.18	--	840	2.5	<1.0	2.6	7.3	<5.0
06/26/96	117.45	103.72	13.73	--	290	3.6	0.73	1.0	1.1	9.9
09/12/96	117.45	103.32	14.13	--	1200	17	1.8	4.0	4.4	24
12/11/96	117.45	104.66	12.79	--	7700	<10	53	19	44	87
03/31/97	117.45	--	--	Abandoned	--	--	--	--	--	--



## 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>C-2</b>										
12/06/90	116.16	100.82	15.34	--	210	140	9.0	2.0	11	--
06/06/91	116.16	101.54	14.62	--	4800	340	23	19	23	--
12/04/91	116.16	100.73	15.43	--	3900	85	15	9.1	15	--
06/02/92	116.16	101.74	14.42	--	3300	76	9.2	14	15	--
09/16/92	116.16	101.35	14.81	--	3000	16	15	3.4	7.5	--
12/21/92	116.16	102.79	13.37	--	2200	21	12	7.1	15	--
03/11/93	116.16	102.69	13.47	--	2200	33	24	12	25	--
06/11/93	116.16	102.18	13.98	--	2600	21	25	11	26	--
09/13/93	116.16	101.61	14.55	--	2100	31	25	18	39	--
12/14/93	116.16	102.46	13.70	--	3800	<2.5	24	12	20	--
03/16/94	116.16	102.51	13.65	--	2600	12	15	10	17	--
06/17/94	116.16	102.87	13.29	--	2400	17	19	28	71	--
08/29/94	116.16	111.60	4.56	--	3000	29	15	20	4.2	--
12/06/94	116.16	102.98	13.18	--	1900	7.9	30	14	31	--
03/31/95	116.16	104.10	12.06	--	890	<1.3	<1.3	2.6	<1.3	--
06/24/95	116.16	102.19	13.97	--	730	4.8	<0.5	5.4	0.96	--
09/12/95	116.16	102.28	13.88	--	1600	<2.5	<2.5	5.4	<2.5	--
12/29/95	116.16	103.31	12.85	--	1000	9.1	2.7	8.7	2.7	19
02/29/96	116.16	104.09	12.07	--	850	<2.5	<2.5	8.7	11	<12
06/26/96	116.16	102.50	13.66	--	2500	14	<5.0	13	6.3	<25
09/12/96	116.16	102.25	13.91	--	1800	26	19	17	31	37
12/11/96	116.16	103.82	12.34	--	2800	<5.0	34	14	<5.0	41
03/31/97	116.16	--	--	Abandoned	--	--	--	--	--	--

## 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>C-3</b>										
12/06/90	115.70	98.84	16.86	--	210	2.0	<0.5	<0.5	1.0	--
12/06/90	115.70	--	--	Duplicate	220	2.0	0.6	<0.5	2.0	--
06/06/91	115.70	100.01	15.69	--	6400	310	21	16	21	--
09/16/92	115.70	99.81	15.89	--	7100	130	26	12	30	--
12/04/91	115.70	100.32	15.38	--	5100	120	18	17	20	--
06/02/92	115.70	100.30	15.40	--	6700	140	44	17	37	--
12/21/92	115.70	101.79	13.91	--	13,000	390	360	100	410	--
03/11/93	115.70	101.95	13.75	--	5100	86	20	12	23	--
06/11/93	115.70	101.03	14.67	--	7200	91	38	19	38	--
09/13/93	115.70	100.17	15.53	--	6800	100	52	41	75	--
12/14/93	115.70	101.30	14.40	--	8600	74	23	18	36	--
03/16/94	115.70	101.44	14.26	--	6000	100	42	27	30	--
06/17/94	115.70	100.60	15.10	--	15,000	170	120	120	270	--
08/29/94	115.70	100.30	15.40	--	26,000	51	<0.5	58	107	--
12/06/94	115.70	101.90	13.80	--	34,000	88	140	98	390	--
03/31/95	115.70	102.91	12.79	--	2800	42	<5.0	<5.0	6.6	--
06/24/95	115.70	100.84	14.86	--	5200	34	<10	<10	13	--
09/12/95	115.70	100.76	14.94	--	7000	45	<10	28	42	--
12/29/95	115.70	102.12	13.58	--	5100	20	<10	<10	19	<50
02/29/96	115.70	102.88	12.82	--	2600	15	<5.0	17	16	<25
06/26/96	115.70	101.32	14.38	--	4400	<10	<10	<10	<10	<50
09/12/96	115.70	100.75	14.95	--	5800	73	22	18	17	61
12/11/96	115.70	103.08	12.62	--	8800	81	<20	<20	37	200
03/31/97	115.70	100.70	15.00	--	8100	38	62	30	42	38
06/29/97	115.70	100.08	15.62	--	5800	<10	<10	<10	67	<50

## 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>C-4</b>										
12/06/90	116.10	98.42	17.68	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/18/90	116.10	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/06/91	116.10	99.61	16.49	--	<50	1.0	1.0	<0.5	0.7	--
12/04/91	116.10	99.28	16.82	--	70	6.5	9.8	1.7	8.6	--
06/02/92	116.10	99.18	16.92	--	70	3.0	4.4	1.8	9.0	--
09/16/92	116.10	98.39	17.71	--	<50	1.4	1.8	<0.5	1.1	--
12/21/92	116.10	100.74	15.36	--	<50	0.6	0.7	<0.5	1.5	--
03/11/93	116.10	100.61	15.49	--	<50	<0.5	<0.5	<0.5	<1.5	--
06/11/93	116.10	99.83	16.27	--	52	0.9	3.1	0.7	3.8	--
09/13/93	116.10	98.92	17.18	--	64	0.9	1.0	<0.5	1.7	--
12/14/93	116.10	101.03	15.07	--	<50	<0.5	0.8	<0.5	0.7	--
03/16/94	116.10	100.19	15.91	--	<50	<0.5	1.0	<0.5	0.8	--
06/17/94	116.10	99.46	16.64	--	230	0.6	2.2	2.2	11	--
08/29/94	116.10	99.05	17.05	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/06/94	116.10	101.52	14.58	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/31/95	116.10	102.26	13.84	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/24/95	116.10	100.05	16.05	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/12/95	116.10	99.87	16.23	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/29/95	116.10	101.35	14.75	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
02/29/96	116.10	102.40	13.70	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/26/96	116.10	100.30	15.80	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/12/96	116.10	99.67	16.43	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
12/11/96	116.10	103.18	12.92	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
03/31/97	116.10	--	--	Abandoned	--	--	--	--	--	--

## 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>										
09/20/93	115.05	102.37	12.68	--	<50	<0.5	<0.5	<0.5	<1.5	--
12/14/93	115.05	105.01	10.04	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/16/94	115.05	103.10	11.95	--	<50	<0.5	1.7	<0.5	2.1	--
06/17/94	115.05	102.51	12.54	--	350	1.2	3.7	2.0	12	--
08/29/94	115.05	101.98	13.07	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/06/94	115.05	104.45	10.60	--	140	0.9	2.8	1.1	4.2	--
03/31/95	115.05	104.74	10.31	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/24/95	115.05	102.44	12.61	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/12/95	115.05	102.00	13.05	--	<50	<0.5	<0.5	<0.5	<0.5	--
02/02/96	115.05	106.19	8.86	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
02/29/96	115.05	105.39	9.66	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/26/96	115.05	102.85	12.20	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/12/96	115.05	101.55	13.50	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
12/11/96	115.05	105.90	9.15	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
03/31/97	115.05	102.30	12.75	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/29/97	115.05	102.01	13.04	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
<b>MW-2</b>										
09/20/93	112.08	99.93	12.15	--	<50	<0.5	<0.5	<0.5	<1.5	--
12/14/93	112.08	97.36	14.72	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/16/94	112.08	100.92	11.16	--	<50	<0.5	1.1	<0.5	0.9	--
06/17/94	112.08	100.41	11.67	--	330	1.4	3.3	1.9	11	--
08/29/94	112.08	100.08	12.00	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/06/94	112.08	102.57	9.51	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/31/95	112.08	103.24	8.84	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/24/95	112.08	100.44	11.64	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/12/95	112.08	100.00	12.08	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/29/95	112.08	101.58	10.50	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
02/29/96	112.08	104.08	8.00	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/26/96	112.08	100.58	11.50	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/12/96	112.08	99.81	12.27	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
12/11/96	112.08	104.17	7.91	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
03/31/97	112.08	100.20	11.88	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/29/97	112.08	99.89	12.19	--	<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
<b>MW-3</b>										
09/20/93	113.67	97.25	16.42	--	6600	400	11	32	23	--
12/14/93	113.67	98.95	14.72	--	8400	390	9.4	13	<2.5	--
03/16/94	113.67	98.45	15.22	--	6900	260	30	32	27	--
06/17/94	113.67	97.62	16.05	--	10,000	190	61	58	190	--
08/29/94	113.67	97.44	16.23	--	7200	74	9.8	26	24	--
12/06/94	113.67	99.35	14.32	--	13,000	610	86	88	140	--
03/31/95	113.67	99.98	13.69	--	4300	120	<10	12	<10	--
06/24/95	113.67	98.02	15.65	--	6200	210	24	29	12	--
09/12/95	113.67	97.68	15.99	--	7200	190	<20	<20	<20	--
12/29/95	113.67	99.67	14.00	--	7100	200	<10	45	24	<50
02/29/96	113.67	100.91	12.76	--	1200	30	<5.0	<5.0	<5.0	<25
06/26/96	113.67	98.44	15.23	--	7900	180	<20	35	28	240
09/12/96	113.67	97.73	15.94	--	11,000	150	<5.0	35	28	170
12/11/96	113.67	99.86	13.81	--	7500	75	8.8	30	45	110
03/31/97	113.67	98.23	15.44	--	8700	100	<10	20	23	50
06/29/97	113.67	97.99	15.68	--	9300	120	28	22	19	150
<b>MW-4</b>										
09/20/93	118.10	107.17	10.93	--	5800	16	4.2	35	48	--
12/14/93	118.10	108.33	9.77	--	7100	19	6.5	24	35	--
03/16/94	118.10	107.99	10.11	--	8500	83	43	60	70	--
06/17/94	118.10	107.20	10.90	--	21,000	150	20	140	350	--
08/29/94	118.10	107.28	10.82	--	10,000	86	71	44	85	--
12/06/94	118.10	108.70	9.40	--	13,000	68	56	67	110	--
03/31/95	118.10	109.31	8.79	--	6700	100	9.4	26	23	--
06/24/95	118.10	107.60	10.50	--	6300	<20	<20	<20	24	--
09/12/95	118.10	107.90	10.20	--	7100	65	16	<10	21	--
12/29/95	118.10	108.86	9.24	--	3300	<10	<10	12	14	720
02/29/96	118.10	111.85	6.25	--	5100	<10	37	23	21	85
06/26/96	118.10	107.92	10.18	--	6800	<20	<20	<20	<20	<100
09/12/96	118.10	107.53	10.57	--	13,000	150	<10	38	35	240
12/11/96	118.10	109.39	8.71	--	26,000	<20	<20	<20	170	<100
03/31/97	118.10	107.18	10.92	--	12,000	120	74	45	70	240
06/29/97	118.10	106.43	11.67	--	8800	24	<10	35	36	62

## 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>										
09/20/93	116.74	101.43	15.31	--	590	25	1.8	0.6	2.0	--
12/14/93	116.74	102.19	14.55	--	210	11	6.3	2.3	6.1	--
03/16/94	116.74	101.77	14.97	--	270	12	16	4.8	17	--
06/17/94	116.74	101.36	15.38	--	220	24	17	6.7	28	--
08/29/94	116.74	101.54	15.20	--	1000	<0.5	<0.5	<0.5	<0.5	--
12/06/94	116.74	102.09	14.65	--	110	9.2	9.7	2.2	11	--
03/31/95	116.74	103.04	13.70	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/24/95	116.74	101.95	14.79	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/12/95	116.74	102.15	14.59	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/29/95	116.74	101.76	14.98	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
02/29/96	116.74	103.07	13.67	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/26/96	116.74	102.50	14.24	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/12/96	116.74	102.12	14.62	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
12/11/96	116.74	102.93	13.81	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
03/31/97	116.74	101.29	15.45	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/29/97	116.74	102.07	14.67	--	<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
<b>TRIP BLANK</b>										
12/06/90	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/18/90	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/06/91	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/04/91	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/02/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/16/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/21/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/11/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
06/11/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
09/13/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
12/14/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/16/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/17/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
08/29/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/06/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/31/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/24/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/12/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/29/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
02/29/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/26/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/12/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/11/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
03/31/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/29/97	--	--	--	--	<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 March 31, 1995. Earlier field data and analytical results provided by Sierra Environmental.

**ABBREVIATIONS:**

TPH = Total Petroleum Hydrocarbons

MTBE = Methyl t-butyl ether

# **Analytical Appendix**





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Chevron 9-3864/970629X1 Sample Descript: C-3 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9706G02-01	Sampled: 06/29/97 Received: 06/30/97 Analyzed: 07/07/97 Reported: 07/14/97
Attention: Fran Thie		

QC Batch Number: GC070797BTEX02A  
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	5800
Methyl t-Butyl Ether	50	N.D.
Benzene	10	N.D.
Toluene	10	N.D.
Ethyl Benzene	10	N.D.
Xylenes (Total)	10	67
Chromatogram Pattern: Weathered Gas		C9-C12
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	141 Q

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

**SEQUOIA ANALYTICAL - ELAP #1210**

  
Peggy Penner  
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Chevron 9-3864/970629X1 Sample Descript: MW-1 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9706G02-02	Sampled: 06/29/97 Received: 06/30/97 Analyzed: 07/07/97 Reported: 07/14/97
Attention: Fran Thie		

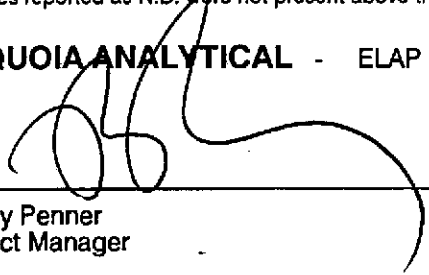
QC Batch Number: GC070797BTEX02A  
Instrument ID: GCHP02

**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	94

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

**SEQUOIA ANALYTICAL** - ELAP #1210



Peggy Penner  
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Chevron 9-3864/970629X1 Sample Descript: MW-2 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9706G02-03	Sampled: 06/29/97 Received: 06/30/97  Analyzed: 07/07/97 Reported: 07/14/97
Attention: Fran Thie		

QC Batch Number: GC070797BTEX02A  
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	87

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

**SEQUOIA ANALYTICAL** - ELAP #1210

  
Peggy Penner  
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Chevron 9-3864/970629X1 Sample Descript: MW-3 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9706G02-04	Sampled: 06/29/97 Received: 06/30/97 Analyzed: 07/08/97 Reported: 07/14/97
Attention: Fran Thie		

QC Batch Number: GC070897BTEX03A  
Instrument ID: GCHP03

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

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	1000	9300
Methyl t-Butyl Ether	50	150
Benzene	10	120
Toluene	10	28
Ethyl Benzene	10	22
Xylenes (Total)	10	19
Chromatogram Pattern:		Gas
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	77

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

**SEQUOIA ANALYTICAL** - ELAP #1210

  
Peggy Fenner  
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Chevron 9-3864/970629X1 Sample Descript: MW-4 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9706G02-05	Sampled: 06/29/97 Received: 06/30/97  Analyzed: 07/10/97 Reported: 07/14/97
Attention: Fran Thie		

QC Batch Number: GC071097BTEX02A  
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	8800
Methyl t-Butyl Ether	50	62
Benzene	10	24
Toluene	10	N.D.
Ethyl Benzene	10	35
Xylenes (Total)	10	36
Chromatogram Pattern:		Gas
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70                      130	372 Q

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

**SEQUOIA ANALYTICAL** - ELAP #1210

  
Peggy Penner  
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Chevron 9-3864/970629X1 Sample Descript: MW-5 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9706G02-06	Sampled: 06/29/97 Received: 06/30/97 Analyzed: 07/07/97 Reported: 07/14/97
--	--	---

QC Batch Number: GC070797BTEX02A  
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	97

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

**SEQUOIA ANALYTICAL - ELAP #1210**

  
Peggy Penner  
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Chevron 9-3864/970629X1 Sample Descript: TB Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9706G02-07	Sampled: 06/29/97 Received: 06/30/97  Analyzed: 07/07/97 Reported: 07/14/97
Attention: Fran Thie		

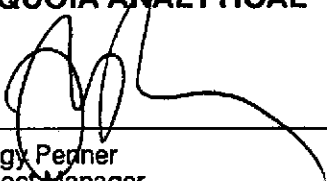
QC Batch Number: GC070797BTEX02A  
Instrument ID: GCHP02

**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	98

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

**SEQUOIA ANALYTICAL - ELAP #1210**

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





Blaine Tech Services, Inc. Client Project ID: Chevron 9-3864 / 970629X1  
 1680 Rogers Avenue Matrix: Liquid  
 San Jose, CA 95112  
 Attention: Fran Thie Work Order #: 9706G02 -01-03, 06-07 Reported: Jul 17, 1997

**QUALITY CONTROL DATA REPORT**

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC070797BTEX02A	GC070797BTEX02A	GC070797BTEX02A	GC070797BTEX02A	GC070797BTEX02A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	A. Miraftab	A. Miraftab	A. Miraftab	A. Miraftab	A. Miraftab
MS/MSD #:	9706F9902	9706F9902	9706F9902	9706F9902	9706F9902
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	7/7/97	7/7/97	7/7/97	7/7/97	7/7/97
Analyzed Date:	7/7/97	7/7/97	7/7/97	7/7/97	7/7/97
Instrument I.D.#:	GCHP2	GCHP2	GCHP2	GCHP2	GCHP2
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	10	9.5	9.7	29	61
MS % Recovery:	100	95	97	97	102
Dup. Result:	9.8	9.2	9.4	28	59
MSD % Recov.:	98	92	94	93	98
RPD:	2.0	3.2	3.1	3.5	3.3
RPD Limit:	0-25	0-25	0-25	0-25	0-25

LCS #:	BLK070797	BLK070797	BLK070797	BLK070797	BLK070797
Prepared Date:	7/7/97	7/7/97	7/7/97	7/7/97	7/7/97
Analyzed Date:	7/7/97	7/7/97	7/7/97	7/7/97	7/7/97
Instrument I.D.#:	GCHP2	GCHP2	GCHP2	GCHP2	GCHP2
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	8.8	8.5	8.5	25	58
LCS % Recov.:	88	85	85	83	97

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

**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.







Blaine Tech Services, Inc.  
1680 Rogers Avenue  
San Jose, CA 95112  
Attention: Fran Thie

Client Project ID: Chevron 9-3864 / 970629X1  
Matrix: Liquid

Work Order #: 9706G02-04

Reported: Jul 17, 1997

**QUALITY CONTROL DATA REPORT**

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC070897BTEX03A	GC070897BTEX03A	GC070897BTEX03A	GC070897BTEX03A	GC070897BTEX03A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	D. Jirsa	D. Jirsa	D. Jirsa	D. Jirsa	D. Jirsa
MS/MSD #:	9706G0609	9706G0609	9706G0609	9706G0609	9706G0609
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	7/8/97	7/8/97	7/8/97	7/8/97	7/8/97
Analyzed Date:	7/8/97	7/8/97	7/8/97	7/8/97	7/8/97
Instrument I.D.#:	GCHP3	GCHP3	GCHP3	GCHP3	GCHP3
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	9.1	8.9	8.9	25	43
MS % Recovery:	91	89	89	83	72
Dup. Result:	9.4	9.1	9.2	26	56
MSD % Recov.:	94	91	92	87	93
RPD:	3.2	2.2	3.3	3.9	26
RPD Limit:	0-25	0-25	0-25	0-25	0-25

LCS #:	BLK070897	BLK070897	BLK070897	BLK070897	BLK070897
Prepared Date:	7/8/97	7/8/97	7/8/97	7/8/97	7/8/97
Analyzed Date:	7/8/97	7/8/97	7/8/97	7/8/97	7/8/97
Instrument I.D.#:	GCHP3	GCHP3	GCHP3	GCHP3	GCHP3
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	9.2	9.0	9.0	25	44
LCS % Recov.:	92	90	90	83	73

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

**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

9706G02.BLA <2>





Blaine Tech Services, Inc. Client Project ID: Chevron 9-3864 / 970629X1  
 1680 Rogers Avenue Matrix: Liquid  
 San Jose, CA 95112  
 Attention: Fran Thie Work Order #: 9706G02-05 Reported: Jul 17, 1997

**QUALITY CONTROL DATA REPORT**

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC071097BTEX02A	GC071097BTEX02A	GC071097BTEX02A	GC071097BTEX02A	GC071097BTEX02A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	A. Miraftab	A. Miraftab	A. Miraftab	A. Miraftab	A. Miraftab
MS/MSD #:	9706G5502	9706G5502	9706G5502	9706G5502	9706G5502
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	7/10/97	7/10/97	7/10/97	7/10/97	7/10/97
Analyzed Date:	7/10/97	7/10/97	7/10/97	7/10/97	7/10/97
Instrument I.D.#:	GCHP2	GCHP2	GCHP2	GCHP2	GCHP2
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	9.9	9.5	9.7	29	60
MS % Recovery:	99	95	97	97	100
Dup. Result:	9.9	9.5	9.7	29	63
MSD % Recov.:	99	95	97	97	105
RPD:	0.0	0.0	0.0	0.0	4.9
RPD Limit:	0-25	0-25	0-25	0-25	0-25

LCS #:	BLK071097	BLK071097	BLK071097	BLK071097	BLK071097
Prepared Date:	7/10/97	7/10/97	7/10/97	7/10/97	7/10/97
Analyzed Date:	7/10/97	7/10/97	7/10/97	7/10/97	7/10/97
Instrument I.D.#:	GCHP2	GCHP2	GCHP2	GCHP2	GCHP2
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	8.1	7.6	7.8	23	49
LCS % Recov.:	81	76	78	77	82

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

**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

9706G02.BLA <3>





Blaine Tech Services  
1680 Rogers Avenue  
San Jose, CA 95112  
Attention: Fran Thie

Client Proj. ID: Chevron 9-3864/970629X1

Received: 06/30/97

Lab Proj. ID: 9706G02

Reported: 07/14/97

### LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 11 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

TPPH Note: Sample 9706G02-01 was diluted 20-fold.  
Sample 9706G02-04 was diluted 20-fold.  
Sample 9706G02-05 was diluted 20-fold.

SEQUOIA ANALYTICAL

  
Peggy Penner  
Project Manager



100 copy of Lab Report and COC to Chevron Contact:  No

# Chain-of-Custody-Record

Chevron Facility Number 9-3864  
 Facility Address 5101 Telegraph, Oakland, CA  
 Consultant Project Number 970629X  
 Consultant Name Blaine Tech Services, Inc.  
 Address 1680 Rogers Ave., San Jose, CA 95112  
 Project Contact (Name) Fran Thie  
 (Phone) 408-573-0555 (Fax Number) 408-573-7771

Chevron Contact (Name) Phil Briggs  
 (Phone) (510) 842-9136  
 Laboratory Name Sequoia  
 Laboratory Release Number 9034826  
 Samples Collected by (Name) Kenneth Klingfeller  
 Collection Date 6/29/97  
 Signature [Signature]

Sample Number	Lab Sample Number	Number of Containers	Media S = Soil W = Water C = Charcoal	Type C = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analytes To Be Performed														
								TEX + TPH GAS (8020 + 8015)	TPH Dissol (8015)	Oil and Grease (8220)	Petroleum Hydrocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)							
C-3	1	3	C		10:37	HCL	Yes	X														
MW-1	2				9:15																	
MW-2	3				9:30																	
MW-3	4				10:00																	
MW-4	5				10:25																	
MW-5	6				8:56																	
TB	7	2																				

DO NOT BILL FOR TB-LB  
 30 12 10  
 9706502  
 Remarks

Relinquished By (Signature) <u>[Signature]</u>	Organization <u>BTB</u>	Date/Time <u>6/30/97 10:37</u>	Received By (Signature) <u>[Signature]</u>	Organization <u>520</u>	Date/Time <u>6/30/97</u>
Relinquished By (Signature) <u>[Signature]</u>	Organization <u>520</u>	Date/Time <u>6/30/97 11:00</u>	Received By (Signature) <u>[Signature]</u>	Organization	Date/Time
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature) <u>[Signature]</u>		Date/Time <u>6/30/97 12:10</u>

Turn Around Time (Circle Choice)  
 24 Hrs.  
 48 Hrs.  
 5 Days  
 10 Days  
 As Contracted

# **Field Data Sheets**



## CHEVRON WELL MONITORING DATA SHEET

Project #: <u>970629-1</u>	Station #: <u>9-3864</u>
Sampler: <u>KW</u>	Date: <u>6/29</u>
Well I.D.: <u>C-3</u>	Well Diameter: <u>(2)</u> 3 4 6 8 <u>   </u>
Total Well Depth: <u>29.08</u>	Depth to Water: <u>15.62</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	Sampling Method: Bailer
Disposable Bailer <input checked="" type="checkbox"/>	Disposable Bailer <input checked="" type="checkbox"/>
Middleburg	Extraction Port
Electric Submersible	Other: _____
Extraction Pump	
Other: _____	

<u>2.1</u>	x	<u>3</u>	=	<u>6.3</u> Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
10:30	63.8	6.6	400	2	
10:32	64.4	6.6	380	4	
10:36	64.2	6.6	380	6.5	

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>6.5</u>
Sampling Time: <u>10:37</u>	Sampling Date: <u>6/29</u>
Sample I.D.: <u>C-3</u>	Laboratory: <u>(Sequia)</u> GTEL N. Creek Assoc. Labs
Analyzed for: <u>(TPH-G)</u> <u>(BTEX)</u> <u>(MTBE)</u> TPH-D Other:	
Duplicate I.D.:	Analyzed for: TPH-G BTEX MTBE TPH-D Other:
D.O. (if req'd):	Pre-purge: <u>   </u> mg/L      Post-purge: <u>   </u> mg/L
O.R.P. (if req'd):	Pre-purge: <u>   </u> mV      Post-purge: <u>   </u> mV

# CHEVRON WELL MONITORING DATA SHEET

Project #: 970629X	Station #: 9-3864
Sampler: KW	Date: 6/29
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8
Total Well Depth: 23.74	Depth to Water: 13.04
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  Other: \_\_\_\_\_

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

<u>1.7</u>	$\times$	<u>3</u>	$=$	<u>5.1</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
9:09	73.0	7.0	440	2	
9:11	72.8	7.0	400	4	
9:14	70.4	7.0	380	6	

Did well dewater? Yes  No  Gallons actually evacuated: 6

Sampling Time: 9:15 Sampling Date: 6/29

Sample I.D.: MW-1 Laboratory: (Sequoia) GTEL 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 #: 970629X	Station #: 9-3864
Sampler: KW	Date: 6/29
Well I.D.: MW-2	Well Diameter: (2) 3 4 6 8
Total Well Depth: 24.45	Depth to Water: 12.19
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  
 Other: \_\_\_\_\_

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

<u>1.9</u>	x	<u>3</u>	=	<u>5.7</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
9:22	64.8	6.8	400	2	
9:25	64.8	6.6	340	4	
9:28	64.6	6.6	320	6	

Did well dewater? Yes  No  Gallons actually evacuated: 6

Sampling Time: 9:30 Sampling Date: 6/29

Sample I.D.: MW-2 Laboratory: Sequia GTEL 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>970029X</u>	Station #: <u>9-3864</u>
Sampler: <u>KW</u>	Date: <u>6/29</u>
Well I.D.: <u>MW-3</u>	Well Diameter: <u>2</u> 3 4 6 8 <u>    </u>
Total Well Depth: <u>26.69</u>	Depth to Water: <u>15.68</u>
Depth to Free Product: <u>    </u>	Thickness of Free Product (feet): <u>    </u>
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	Sampling Method: Bailer
Disposable Bailer <input checked="" type="checkbox"/>	Disposable Bailer <input checked="" type="checkbox"/>
Middleburg	Extraction Port
Electric Submersible	Other: <u>    </u>
Extraction Pump	
Other: <u>    </u>	

<u>1.7</u>	x	<u>3</u>	=	<u>5.1</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
<u>9:51</u>	<u>74.2</u>	<u>6.4</u>	<u>560</u>	<u>2</u>	<u>odor</u>
<u>9:53</u>	<u>74.8</u>	<u>6.4</u>	<u>540</u>	<u>4</u>	<u>u</u>
<u>9:57</u>	<u>74.0</u>	<u>6.4</u>	<u>540</u>	<u>6</u>	<u>u</u>

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>6</u>
Sampling Time: <u>10:00</u>	Sampling Date: <u>6/29</u>
Sample I.D.: <u>MW-3</u>	Laboratory: <u>Sequoia</u> GTEL N. Creek Assoc. Labs
Analyzed for: <u>(TPH-G)</u> <u>(BTEX)</u> <u>(MTBE)</u> TPH-D Other:	
Duplicate I.D.: <u>    </u>	Analyzed for: TPH-G BTEX MTBE TPH-D Other:
D.O. (if req'd):	Pre-purge: <u>    </u> mg/L Post-purge: <u>    </u> mg/L
O.R.P. (if req'd):	Pre-purge: <u>    </u> mV Post-purge: <u>    </u> mV

# CHEVRON WELL MONITORING DATA SHEET

Project #: <u>970629A</u>	Station #: <u>9-3864</u>
Sampler: <u>KW</u>	Date: <u>6/29</u>
Well I.D.: <u>MW-4</u>	Well Diameter: <u>(2)</u> 3 4 6 8 <u>    </u>
Total Well Depth: <u>20.99</u>	Depth to Water: <u>11.67</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	Sampling Method: Bailer
Disposable Bailer <input checked="" type="checkbox"/>	Disposable Bailer <input checked="" type="checkbox"/>
Middleburg <input checked="" type="checkbox"/>	Extraction Port
Electric Submersible Extraction Pump	Other: _____
Other: _____	

<u>1.4</u>	x	<u>3</u>	=	<u>4.2</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
<u>10:18</u>	<u>65.0</u>	<u>6.8</u>	<u>480</u>	<u>15</u>	<u>odor / sheer</u>
<u>10:20</u>	<u>64.2</u>	<u>6.6</u>	<u>480</u>	<u>3</u>	<u>"</u>
<u>10:23</u>	<u>63.6</u>	<u>6.6</u>	<u>460</u>	<u>5</u>	<u>"</u>

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>5</u>
Sampling Time: <u>10:25</u>	Sampling Date: <u>6/29</u>
Sample I.D.: <u>MW-4</u>	Laboratory: <u>(Sequoia)</u> GTEL N. Creek Assoc. Labs
Analyzed for: <u>(TPH-G)</u> <u>(BTEX)</u> <u>(MTBE)</u> TPH-D Other:	
Duplicate I.D.:	Analyzed for: TPH-G BTEX MTBE TPH-D Other:
D.O. (if req'd):	Pre-purge: <u>    </u> mg/L Post-purge: <u>    </u> mg/L
O.R.P. (if req'd):	Pre-purge: <u>    </u> mV Post-purge: <u>    </u> mV

## CHEVRON WELL MONITORING DATA SHEET

Project #: <u>970629X</u>	Station #: <u>9-3864</u>
Sampler: <u>KW</u>	Date: <u>6/29</u>
Well I.D.: <u>MW-5</u>	Well Diameter: <u>(2)</u> 3 4 6 8 <u>   </u>
Total Well Depth: <u>21.59</u>	Depth to Water: <u>14.76</u>
Depth to Free Product: <u>   </u>	Thickness of Free Product (feet): <u>   </u>
Referenced to: <u>(PVE)</u> Grade	D.O. Meter (if req'd): <u>   </u> YSI <u>   </u> 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>	Sampling Method: <u>Bailer</u>
<u>Disposable Bailer</u> <input checked="" type="checkbox"/>	<u>Disposable Bailer</u> <input checked="" type="checkbox"/>
<u>Middleburg</u> <input type="checkbox"/>	<u>Extraction Port</u> <input type="checkbox"/>
<u>Electric Submersible</u> <input type="checkbox"/>	Other: <u>   </u>
<u>Extraction Pump</u> <input type="checkbox"/>	
Other: <u>   </u>	

<u>1.0</u>	x	<u>3</u>	=	<u>3.0</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
<u>8:51</u>	<u>62.4</u>	<u>8.4</u>	<u>520</u>	<u>1</u>	
<u>8:53</u>	<u>62.2</u>	<u>8.4</u>	<u>460</u>	<u>2</u>	
<u>8:55</u>	<u>59.8</u>	<u>8.2</u>	<u>400</u>	<u>3.5</u>	
					<u>3.5</u>

Did well dewater?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>3.5</u>	
Sampling Time: <u>8:56</u>	Sampling Date: <u>6/29</u>		
Sample I.D.: <u>MW-5</u>	Laboratory: <u>(Sequia)</u> GTEL N. Creek Assoc. Labs		
Analyzed for: <u>(TPH-G)</u> <u>(BTEX)</u> <u>(MTBE)</u> TPH-D Other: <u>   </u>			
Duplicate I.D.: <u>   </u>	Analyzed for: TPH-G BTEX MTBE TPH-D Other: <u>   </u>		
D.O. (if req'd): -	Pre-purge: <u>   </u> mg/L	Post-purge: <u>   </u> mg/L	
O.R.P. (if req'd):	Pre-purge: <u>   </u> mV	Post-purge: <u>   </u> mV	