



**Chevron**

ST101689  
LS

2340 Otis Dr.  
Alameda

Chevron U.S.A. Products Company  
6001 Bollinger Canyon Rd. Bldg. L  
P. O. Box 6004  
San Ramon, CA 94583-0804

Site Assessment and  
Remediation Group  
Phone (510) 842-9500  
Fax (510) 842-3370

Date: December 23, 1999  
To: Distribution  
Re: Groundwater Monitoring Report , 9-6607

The enclosed groundwater monitoring report has been properly reviewed by a Chevron authorized representative. Agency guidelines have been followed. Blaine Tech Services is authorized to distribute the report directly to interested parties.

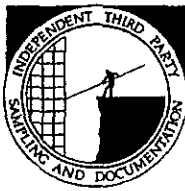
If you have any questions, please call me at (510) 842-8695

Sincerely,

Brett Hunter  
Site Assessment and Remediation  
Project Manager

00 JAN -4 PM 3:28  
ENVIRONMENTAL  
PROTECTION

BLAINE  
TECH SERVICES INC



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

1629

December 20, 1999

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

#### 4th Quarter 1999 Monitoring at 9-6607

Fourth Quarter 1999 Groundwater Monitoring at  
Chevron Service Station Number 9-6607  
2340 Otis Drive  
Alameda, CA

Monitoring Performed on October 25, 1999

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#### Groundwater Sampling Report 991025-K-1

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.

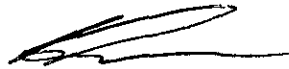
Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL DATA AND ANALYTICAL RESULTS**. The full analytical report for the most recent samples is located in the **Analytical Appendix**. The table also contains new groundwater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



Scott Boor  
Project Coordinator

SDB/jh

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

cc: Thomas Peacock, Alameda County Health Care Services  
Wayne Weber, Chevron Station  
Harsh Investment Group  
Greg Gurss, Gettler-Ryan, Inc.  
Bill Scudder, Chevron (w/o enclosure)

# **Professional Engineering Appendix**

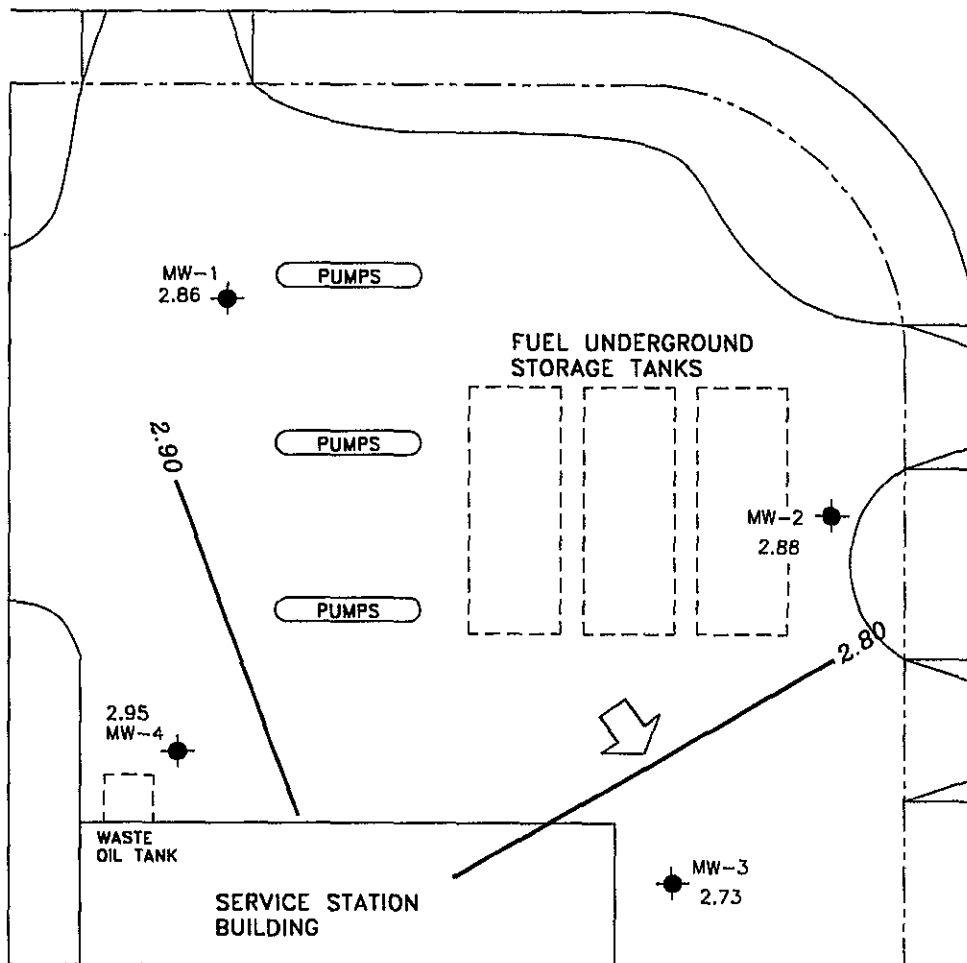


SCALE (ft)



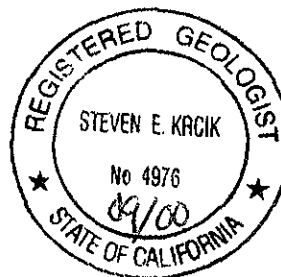
OTIS DRIVE

PARK STREET



**EXPLANATION**

- ◆ 2.95 MONITORING WELL
- ◆ 2.86 GROUNDWATER ELEVATION (FT, MSL)
- 2.90 GROUNDWATER ELEVATION CONTOUR (FT, MSL)
- ⇩ APPROXIMATE GROUNDWATER FLOW DIRECTION;  
APPROXIMATE GRADIENT = 0.003



Basemap from Combric Environmental Technology, Inc.

PREPARED BY

**RRM**  
engineering contracting firm

**Chevron Station 9-6607**  
2340 Otis Drive  
Alameda, California

**GROUNDWATER ELEVATION CONTOUR MAP,**  
**OCTOBER 25, 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	TOG	TPH-Diesel	MTBE	Other VOCs	PNA's
<b>MW-1</b>														
08/21/91	7.12	1.02	6.10	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
01/09/92	7.12	3.16	3.96	--	<50	<0.5	<0.5	<0.5	<0.5	<5000	--	--	--	--
04/20/92	7.12	3.22	3.90	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
07/25/92	7.12	2.94	4.18	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
11/24/92	7.12	2.40	4.72	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
01/21/93	7.12	3.94	3.18	--	<50	<0.5	0.7	<0.5	1.0	--	--	--	--	--
04/13/93	7.12	3.42	3.70	--	<50	<0.5	<0.5	<0.5	1.0	--	--	--	--	--
07/14/93	7.12	2.91	4.21	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
10/26/93	7.12	2.84	4.28	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
01/11/94	7.12	2.96	4.16	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
03/31/94	7.12	3.24	3.88	--	<50	<0.5	0.6	<0.5	0.7	--	--	--	--	--
07/14/94	7.12	4.12	3.00	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
10/12/94	7.12	2.87	4.25	--	80	<0.5	<0.5	<0.5	<0.5	--	--	121	<5.0-<50	--
01/11/95	7.12	4.00	3.12	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	130	--	--
04/05/95	7.12	3.66	3.46	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	170	--	<5.0
07/13/95	7.12	3.13	3.99	--	<125	<1.2	<1.2	<1.2	<1.2	--	--	400	--	--
10/05/95	7.12	2.74	4.38	--	<50	<0.5	2.3	0.66	4.0	--	--	300	--	--
10/03/96	7.12	2.68	4.44	--	<50	0.63	<0.5	<0.5	<0.5	--	--	560	--	--
01/22/97	7.12	3.73	3.39	--	<200	<2.0	<2.0	<2.0	<2.0	--	--	530	--	--
01/22/97	7.12	3.73	3.39	Confirmation run	--	--	--	--	--	--	--	880	--	--
04/09/97	6.92*	3.22	3.70	--	<125	<1.2	<1.2	<1.2	<1.2	--	--	610	--	--
07/09/97	6.92	3.05	3.87	--	240	47	<2.0	<2.0	<2.0	--	--	990	--	--
10/16/97	6.92	2.95	3.97	--	250	<2.0	<2.0	<2.0	<2.0	--	--	1000	--	--
01/08/98	6.92	3.47	3.45	--	<200	<2.0	<2.0	<2.0	<2.0	--	--	**	--	--
04/24/98	6.92	3.31	3.61	--	170	20	<0.5	<0.5	<0.5	--	--	1700	--	--
07/15/98	6.92	3.07	3.85	--	160	58	1.1	<0.5	0.59	--	--	1500	--	--
07/15/98	6.92	3.07	3.85	Confirmation run	--	--	--	--	--	--	--	1600	--	--
10/27/98	6.92	2.80	4.12	--	140	<0.5	<0.5	<0.5	<0.5	--	--	1200	--	--
01/20/99	6.92	2.44	4.48	--	<250	<2.5	<2.5	<2.5	<2.5	--	--	1330	--	--
04/19/99	6.92	4.21	2.71	--	150	73	<0.5	<0.5	<0.5	--	--	620	--	--
07/29/99	6.92	2.95	3.97	--	142	<0.5	0.82	<0.5	2.08	--	--	824	--	--
10/25/99	6.92	2.86	4.06	--	<200	<2.0	<2.0	<2.0	<2.0	--	--	972	--	--

\* Wellhead elevation altered due to maintenance.

\*\* No value for MTBE could be determined; see lab report.

## 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	TOG	TPH-Diesel	MTBE	Other VOCs	PNA's
<b>MW-2</b>														
08/21/91	7.43	1.03	6.40	--	430	170	0.9	1.0	3.6	--	--	--	--	--
01/09/92	7.43	3.20	4.23	--	58	16	<0.5	<0.5	<0.5	<5000	--	--	--	--
04/20/92	7.43	3.26	4.17	--	180	9.6	<0.5	0.8	<0.5	--	--	--	--	--
07/25/92	7.43	2.96	4.47	--	220	8.0	0.7	4.0	8.6	--	--	--	--	--
11/24/92	7.43	1.61	5.82	--	72	3.2	<0.5	0.5	0.6	--	--	--	--	--
01/21/93	7.43	4.08	3.35	--	<50	0.8	<0.5	<0.5	<0.5	--	--	--	--	--
04/13/93	7.43	3.41	4.02	--	78	<0.5	<0.5	<0.5	0.6	--	--	--	--	--
07/14/93	7.43	2.94	4.49	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
10/26/93	7.43	2.87	4.56	--	<50	<0.5	0.9	<0.5	0.6	--	--	--	--	--
01/11/94	7.43	3.04	4.39	--	<50	<0.5	1.0	<0.5	<0.5	--	--	--	--	--
03/31/94	7.43	3.25	4.18	--	<50	0.5	<0.5	<0.5	0.8	--	--	--	--	--
07/14/94	7.43	2.53	4.90	--	<50	<0.5	<0.5	<0.5	0.6	--	--	--	--	--
10/12/94	7.43	2.89	4.54	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	2900	<50-<500	--
01/11/95	7.43	4.17	3.26	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	2500	--	--
04/05/95	7.43	3.78	3.65	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	<2.0	--	<5.0
07/13/95	7.43	3.12	4.31	--	<250	<2.5	<2.5	<2.5	<2.5	--	--	1100	--	--
10/05/95	7.43	2.75	4.68	--	<50	<0.5	1.9	0.54	3.4	--	--	280	--	--
10/03/96	7.43	2.63	4.80	--	<500	<5.0	<5.0	<5.0	<5.0	--	--	1000	--	--
01/22/97	7.43	4.07	3.36	--	540*	<5.0	<5.0	<5.0	<5.0	--	--	1300	--	--
01/22/97	7.43	4.07	3.36	Confirmation run	--	--	--	--	--	--	--	1600	--	--
04/09/97	7.43	3.18	4.25	--	<500	<5.0	<5.0	<5.0	<5.0	--	--	970	--	--
07/09/97	7.43	2.95	4.48	--	<125	<1.2	<1.2	<1.2	<1.2	--	--	710	--	--
10/16/97	7.43	2.99	4.44	--	<100	<1.0	<1.0	<1.0	<1.0	--	--	1000	--	--
01/08/98	7.43	3.64	3.79	--	68	<0.5	<0.5	<0.5	<0.5	--	--	**	--	--
04/24/98	7.43	3.48	3.95	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	490	--	--
07/15/98	7.43	3.13	4.30	--	51	1.2	1.2	<0.5	<0.5	--	--	480	--	--
10/27/98	7.43	2.98	4.45	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	180	--	--
01/20/99	7.43	3.22	4.21	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	388	--	--
04/19/99	7.43	3.05	4.38	--	620	13	35	11	78	--	--	510	--	--
07/29/99	7.43	2.94	4.49	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	229	--	--
10/25/99	7.43	2.88	4.55	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	314	--	--

\* Chromatogram pattern indicates an unidentified hydrocarbon.

\*\* No value for MTBE could be determined; see lab report.



## 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	TOG	TPH-Diesel	MTBE	Other VOCs	PNA's
<b>MW-3</b>														
08/21/91	8.07	0.97	7.10	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
01/09/92	8.07	3.04	5.03	--	<50	<0.5	<0.5	<0.5	<0.5	<5000	--	--	--	--
04/20/92	8.07	3.16	4.91	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
07/25/92	8.07	2.73	5.34	--	<50	1.0	1.0	1.0	3.4	--	--	--	--	--
11/24/92	8.07	3.07	5.00	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
01/21/93	8.07	3.73	4.34	--	<50	<0.5	0.5	<0.5	1.0	--	--	--	--	--
04/13/93	8.07	3.23	4.84	--	<50	<0.5	<0.5	<0.5	0.6	--	--	--	--	--
07/14/93	8.07	2.78	5.29	--	<50	<0.5	<0.5	<0.5	2.0	--	--	--	--	--
10/26/93	8.07	2.71	5.36	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
01/11/94	8.07	2.85	5.22	--	<50	<0.5	1.0	<0.5	<0.5	--	--	--	--	--
03/31/94	8.07	3.08	4.99	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
07/14/94	8.07	2.71	5.36	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
10/12/94	8.07	3.05	5.02	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
01/11/95	8.07	3.72	4.35	--	<50	<0.5	<0.5	<0.5	0.7	--	--	<5.0	--	--
04/05/95	8.07	5.43	2.64	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	<5.0	--	<5.0
07/13/95	8.07	2.94	5.13	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
10/05/95	8.07	2.61	5.46	--	<50	<0.5	1.2	<0.5	<0.5	--	--	--	--	--
10/03/96	8.07	2.54	5.53	--	<50	0.98	1.2	0.53	2.5	--	--	<2.5	--	--
01/22/97	8.07	3.45	4.62	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	<2.5	--	--
04/09/97	8.00*	2.95	5.05	Sampled annually	--	--	--	--	--	--	--	--	--	--
07/09/97	8.00	2.86	5.14	--	--	--	--	--	--	--	--	--	--	--
10/16/97	8.00	2.80	5.20	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	<2.5	--	--
01/08/98	8.00	3.25	4.75	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	9.3	--	--
04/24/98	8.00	3.27	4.73	--	--	--	--	--	--	--	--	--	--	--
07/15/98	8.00	2.93	5.07	--	--	--	--	--	--	--	--	--	--	--
10/27/98	8.00	2.76	5.24	--	--	--	--	--	--	--	--	--	--	--
01/20/99	8.00	2.82	5.18	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	42.2	--	--
04/19/99	8.00	3.74	4.26	--	--	--	--	--	--	--	--	--	--	--
07/29/99	8.00	2.82	5.18	--	--	--	--	--	--	--	--	--	--	--
10/25/99	8.00	2.73	5.27	--	--	--	--	--	--	--	--	--	--	--

\* Wellhead elevation altered due to 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	TOG	TPH-Diesel	MTBE	Other VOCs	PNAs
<b>MW-4</b>														
08/21/91	7.85	1.00	6.85	--	<50	0.6	<0.5	<0.5	<0.5	<5000	--	--	--	--
01/09/92	7.85	3.15	4.70	--	<50	<0.5	<0.5	<0.5	<0.5	<5000	--	--	--	--
04/20/92	7.85	3.21	4.64	--	<50	<0.5	<0.5	<0.5	<0.5	<5000	--	--	--	--
07/25/92	7.85	2.90	4.95	--	<50	0.5	1.1	<0.5	0.8	--	78	--	--	--
11/24/92	7.85	2.43	5.42	--	<50	<0.5	<0.5	<0.5	1.0	<5000	--	--	--	--
01/21/93	7.85	3.78	4.07	--	<50	<0.5	0.5	<0.5	0.7	--	<10	--	--	--
04/13/93	7.85	3.40	4.45	--	<50	<0.5	<0.5	<0.5	1.0	--	<10	--	--	--
07/14/93	7.85	2.95	4.90	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
10/26/93	7.85	2.90	4.95	--	<50	2.0	3.0	2.0	3.0	--	--	--	--	--
01/11/94	7.85	3.08	4.77	--	<50	<0.5	0.5	<0.5	<0.5	--	--	--	--	--
03/31/94	7.85	3.20	4.65	--	<50	<0.5	<0.5	<0.5	1.0	--	--	--	--	--
07/14/94	7.85	2.80	5.05	--	<50	0.9	1.2	<0.5	2.0	--	--	--	--	--
10/12/94	7.85	2.97	4.88	--	<50	<0.5	0.9	<0.5	0.7	--	--	--	--	--
01/11/95	7.85	3.85	4.00	--	<50	<0.5	0.8	0.7	1.5	--	--	<5.0	--	--
04/05/95	7.85	3.63	4.22	--	<50	<0.5	<0.5	<0.5	<0.5	<5000	--	<2.0	<5.0	--
07/13/95	7.85	3.14	4.71	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
10/05/95	7.85	2.83	5.02	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
10/03/96	7.85	2.77	5.08	--	100	5.5	5.6	2.5	12	--	--	<2.5	--	--
01/22/97	7.85	3.57	4.28	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	<2.5	--	--
04/09/97	7.85	3.25	4.60	Sampled annually	--	--	--	--	--	--	--	--	--	--
07/09/97	7.85	3.06	4.79	--	--	--	--	--	--	--	--	--	--	--
10/16/97	7.85	3.04	4.81	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	2.7	--	--
01/08/98	7.85	3.48	4.37	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	<2.5	--	--
04/24/98	7.85	3.51	4.34	--	--	--	--	--	--	--	--	--	--	--
07/15/98	7.85	3.39	4.46	--	--	--	--	--	--	--	--	--	--	--
10/27/98	7.85	3.33	4.52	--	--	--	--	--	--	--	--	--	--	--
01/20/99	7.85	3.53	4.32	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	<2.0	--	--
04/19/99	7.85	3.78	4.07	--	--	--	--	--	--	--	--	--	--	--
04/19/99	7.85	2.98	4.87	--	--	--	--	--	--	--	--	--	--	--
10/25/99	7.85	2.95	4.90	--	--	--	--	--	--	--	--	--	--	--

## 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	TOG	TPH-Diesel	MTBE	Other VOCs	PNAs
<b>TRIP BLANK</b>														
01/21/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
04/13/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
07/14/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
10/26/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
01/11/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
03/31/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
07/14/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
10/12/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
01/11/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
04/05/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
07/13/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
10/05/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
10/03/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
01/22/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	<2.5	--	--
04/09/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	<2.5	--	--
07/09/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	<2.5	--	--
10/16/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	<2.5	--	--
01/08/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	<2.5	--	--
04/24/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	<2.5	--	--
07/15/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	<2.5	--	--
10/27/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	<2.5	--	--
01/20/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	<2.0	--	--
04/19/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	<2.5	--	--
07/29/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	<5.0	--	--
10/25/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	<5.0	--	--

Note: Blaine Tech Services, Inc. began routine monitoring of the groundwater wells at this site on April 5, 1995. Earlier field data and analytical results provided by Sierra Environmental.

**ABBREVIATIONS:**

TPH = Total Petroleum Hydrocarbons

TOG = Total Oil and Grease

MTBE = Methyl tertiary-Butyl Ether

VOC = Volatile Organic Compound

PNAs = Polynuclear Aromatics

# **Analytical Appendix**



November 9, 1999

Leah Davis  
Blaine Tech Services  
1680 Rogers Avenue  
San Jose, CA 95112

RE: Chevron(3)/L910263

Dear Leah Davis:

Enclosed are the results of analyses for sample(s) received by the laboratory on October 26, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wayne Stevenson  
Project Manager

CA ELAP Certificate Number I-2360





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Blaine/Chevron Project Number: Chevron 9-6607/2340 Otis, Alameda Project Manager: Leah Davis	Sampled: 10/25/99 Received: 10/26/99 Reported: 11/9/99
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**ANALYTICAL REPORT FOR L910263**

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-1	L910263-01	Water	10/25/99
MW-2	L910263-02	Water	10/25/99
TB	L910263-03	Water	10/25/99





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Blaine/Chevron Project Number: Chevron 9-6607/2340 Otis, Alameda Project Manager: Leah Davis	Sampled: 10/25/99 Received: 10/26/99 Reported: 11/9/99
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**Sample Description:** MW-1  
**Laboratory Sample Number:** L910263-01

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
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Sequoia Analytical - San Carlos

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Purgeable Hydrocarbons as Gasoline	9110047	11/8/99	11/8/99		200	ND	ug/l	
Benzene	"	"	"		2.00	ND	"	
Toluene	"	"	"		2.00	ND	"	
Ethylbenzene	"	"	"		2.00	ND	"	
Xylenes (total)	"	"	"		2.00	ND	"	
<b>Methyl tert-butyl ether</b>	"	"	"		20.0	<b>972</b>	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	"	"	"	70.0-130		115	%	





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Blaine/Chevron Project Number: Chevron 9-6607/2340 Otis, Alameda Project Manager: Leah Davis	Sampled: 10/25/99 Received: 10/26/99 Reported: 11/9/99
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**Sample Description:** MW-2  
**Laboratory Sample Number:** L910263-02

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
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**Sequoia Analytical - San Carlos**

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT**

Purgeable Hydrocarbons as Gasoline	9110047	11/8/99	11/8/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
<b>Methyl tert-butyl ether</b>	"	"	"		<b>5.00</b>	<b>314</b>	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	"	"	"	70.0-130		119	%	







Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Blaine/Chevron Project Number: Chevron 9-6607/2340 Otis, Alameda Project Manager: Leah Davis	Sampled: 10/25/99 Received: 10/26/99 Reported: 11/9/99
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**Sample Description:** TB  
**Laboratory Sample Number:** L910263-03

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
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Sequoia Analytical - San Carlos

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Purgeable Hydrocarbons as Gasoline	9110034	11/5/99	11/5/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	ND	"	
Surrogate: <i>a,a,a-Trifluorotoluene</i>	"	"	"	70.0-130		91.9	%	





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Blaine/Chevron Project Number: Chevron 9-6607/2340 Otis, Alameda Project Manager: Leah Davis	Sampled: 10/25/99 Received: 10/26/99 Reported: 11/9/99
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**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUT/Quality Control**  
**Sequoia Analytical - San Carlos**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
<b>Batch: 9110034</b>		<b>Date Prepared: 11/5/99</b>			<b>Extraction Method: EPA 5030B [P/T]</b>					
<b>Blank</b>		<b>9110034-BLK1</b>								
Purgeable Hydrocarbons as Gasoline	11/5/99			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Methyl tert-butyl ether	"			ND	"	5.00				
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.84	"	70.0-130	98.4			
<b>Blank</b>		<b>9110034-BLK2</b>								
Purgeable Hydrocarbons as Gasoline	11/7/99			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Methyl tert-butyl ether	"			ND	"	5.00				
Surrogate: a,a,a-Trifluorotoluene	"	10.0		10.4	"	70.0-130	104			
<b>LCS</b>		<b>9110034-BS1</b>								
Benzene	11/5/99	10.0		8.45	ug/l	70.0-130	84.5			
Toluene	"	10.0		8.53	"	70.0-130	85.3			
Ethylbenzene	"	10.0		8.80	"	70.0-130	88.0			
Xylenes (total)	"	30.0		26.4	"	70.0-130	88.0			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		8.62	"	70.0-130	86.2			
<b>LCS</b>		<b>9110034-BS2</b>								
Purgeable Hydrocarbons as Gasoline	11/5/99	250		261	ug/l	70.0-130	104			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		7.72	"	70.0-130	77.2			
<b>LCS</b>		<b>9110034-BS3</b>								
Benzene	11/7/99	10.0		9.47	ug/l	70.0-130	94.7			
Toluene	"	10.0		9.86	"	70.0-130	98.6			
Ethylbenzene	"	10.0		9.90	"	70.0-130	99.0			
Xylenes (total)	"	30.0		29.9	"	70.0-130	99.7			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		10.3	"	70.0-130	103			
<b>LCS</b>		<b>9110034-BS4</b>								
Purgeable Hydrocarbons as Gasoline	11/7/99	250		262	ug/l	70.0-130	105			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.50	"	70.0-130	95.0			





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Blaine/Chevron Project Number: Chevron 9-6607/2340 Otis, Alameda Project Manager: Leah Davis	Sampled: 10/25/99 Received: 10/26/99 Reported: 11/9/99
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**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control  
Sequoia Analytical - San Carlos**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
<b>Matrix Spike</b>	<b>9110034-MS1</b>		<b>L910241-01</b>							
Purgeable Hydrocarbons as Gasoline	11/5/99	250	ND	259	ug/l	60.0-140	104			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		8.48	"	70.0-130	84.8			
<b>Matrix Spike Dup</b>	<b>9110034-MSD1</b>		<b>L910241-01</b>							
Purgeable Hydrocarbons as Gasoline	11/5/99	250	ND	256	ug/l	60.0-140	102	25.0	1.94	
Surrogate: a,a,a-Trifluorotoluene	"	10.0		7.69	"	70.0-130	76.9			
<b>Batch: 9110047</b>	<b>Date Prepared: 11/8/99</b>					<b>Extraction Method: EPA 5030B (P/T)</b>				
<b>Blank</b>	<b>9110047-BLK1</b>									
Purgeable Hydrocarbons as Gasoline	11/8/99			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Methyl tert-butyl ether	"			ND	"	5.00				
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.97	"	70.0-130	99.7			
<b>LCS</b>	<b>9110047-BS1</b>									
Benzene	11/8/99	10.0		8.93	ug/l	70.0-130	89.3			
Toluene	"	10.0		8.73	"	70.0-130	87.3			
Ethylbenzene	"	10.0		8.89	"	70.0-130	88.9			
Xylenes (total)	"	30.0		26.5	"	70.0-130	88.3			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		10.3	"	70.0-130	103			
<b>LCS</b>	<b>9110047-BS2</b>									
Purgeable Hydrocarbons as Gasoline	11/8/99	250		255	ug/l	70.0-130	102			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		11.6	"	70.0-130	116			
<b>Matrix Spike</b>	<b>9110047-MS1</b>		<b>L910222-15</b>							
Benzene	11/9/99	10.0	ND	9.46	ug/l	60.0-140	94.6			
Toluene	"	10.0	0.734	10.1	"	60.0-140	93.7			
Ethylbenzene	"	10.0	ND	9.58	"	60.0-140	95.8			
Xylenes (total)	"	30.0	ND	28.9	"	60.0-140	96.3			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		10.5	"	70.0-130	105			
<b>Matrix Spike Dup</b>	<b>9110047-MSD1</b>		<b>L910222-15</b>							
Benzene	11/9/99	10.0	ND	9.71	ug/l	60.0-140	97.1	25.0	2.61	
Toluene	"	10.0	0.734	10.1	"	60.0-140	93.7	25.0	0	
Ethylbenzene	"	10.0	ND	9.91	"	60.0-140	99.1	25.0	3.39	
Xylenes (total)	"	30.0	ND	29.0	"	60.0-140	96.7	25.0	0.415	
Surrogate: a,a,a-Trifluorotoluene	"	10.0		10.7	"	70.0-130	107			





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Blaine/Chevron Project Number: Chevron 9-6607/2340 Otis, Alameda Project Manager: Leah Davis	Sampled: 10/25/99 Received: 10/26/99 Reported: 11/9/99
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**Notes and Definitions**

#	Note
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference



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 <u>9-6607</u> <u>L910263</u> Facility Address <u>2340 Otis Dr., Alameda</u> Consultant Project Number <u>991025-K1</u> Consultant Name <u>Blaine Tech Services, Inc.</u> Address <u>1680 Rogers Ave., San Jose</u> Project Contact (Name) <u>Scott Boor</u> (Phone) <u>408-573-0555</u> (Fax) <u>408-573-7771</u>	Chevron Contact Name) <u>Brett Hunter</u> (Phone) <u>(925) 842-8695</u> Laboratory Name <u>Sequoia</u> Laboratory Service Order <u>9144488</u> Laboratory Service Code <u>ZZ02790</u> Samples collected by (Name) <u>MATTHEW SMITH</u> Signature <u>matthew smith</u>
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State Method:  CA  OR  WA  NW Series  CO  UT

Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air 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 (8270)	Extractable Organics (8270)	Oil and Grease (5620)	Metals (ICAP or AA) Cd, Cr, Pb, Zn, Ni	BTEX (8020)	BTEX/MTBE/Naph. (8020)	TPH - HClD	TPH - D Extended							Lab Sample No.															
MW-1	3	W	40ml HCL VORE	10/25/99 1533	X																																		
MW-2	3	W	VORE	1518	X																																		
TB	2	W	VORE		X																																		

Relinquished By (Signature) <u>Matthew Smith</u>	Organization <u>BTS</u>	Date/Time <u>10/16/99</u>	Received By (Signature) <u>[Signature]</u>	Organization <u>Sequoia</u>	Date/Time <u>9:10 10/26/99</u>	Iced Y/N -	Turn Around Time (Circle One) <input type="radio"/> 24 Hrs. <input type="radio"/> 48 Hrs. <input type="radio"/> 5 Days <input type="radio"/> 10 Days <input checked="" type="radio"/> As Contracted
Relinquished By (Signature) <u>[Signature]</u>	Organization <u>SA</u>	Date/Time <u>10/26/99</u>	Received By (Signature) <u>TJT (M)</u>	Organization <u>SA</u>	Date/Time <u>13:05 10.26.99</u>	Iced Y/N <input checked="" type="checkbox"/>	
Relinquished By (Signature) <u>TJT (M)</u>	Organization <u>SA</u>	Date/Time <u>10.28.99</u>	Received For Laboratory By (Signature) <u>[Signature]</u>	Date/Time <u>0800 10/29/99</u>	Iced Y/N <input checked="" type="checkbox"/>		

COC-3.DW/SUR-SPIR/LHT

# **Field Data Sheets**



## CHEVRON WELL MONITORING DATA SHEET

Project #: 99 1025-K#1	Station #: 9-6607
Sampler: MAT	Date: 10/25/99
Well I.D.: MW-1	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 22.77	Depth to Water: 4.06
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 <u>Electric Submersible</u> Extraction Pump Other: _____	Sampling Method: Bailer <del>Disposable Bailer</del> Extraction Port Other: _____
---	--

<u>12.2</u>	x	<u>3</u>	=	<u>36.6</u> Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1527	70.8	7.18	1322	12.5	
1528	71.0	7.23	1877	25	
1530	70.8	7.26	2088	37	

Did well dewater? Yes <input type="checkbox"/> <u>No</u> <input checked="" type="checkbox"/>	Gallons actually evacuated: 37
Sampling Time: 1533	Sampling Date: 10/25/99
Sample I.D.: MW-1	Laboratory: <u>Sequia</u> CORE N. Creek Assoc. Labs
Analyzed for: <del>TPH-G</del> <del>BTEX</del> <del>MTBE</del> 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