



**Chevron**

#4249

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) 842-5370

Date: November 5, 1999  
To: Distribution  
Re: Groundwater Monitoring Report, 9-4612

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) 842-3695.

Sincerely,

Brett Hunter  
Site Assessment and Remediation  
Project Manager

93 NOV 28 PM 2:59  
ENVIRONMENTAL  
PROTECTION



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

November 5, 1999

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

### 3rd Quarter 1999 Monitoring at 9-4612

Third Quarter 1999 Groundwater Monitoring at  
Chevron Service Station Number 9-4612  
3616 San Leandro St.  
Oakland, CA

Monitoring Performed on September 7, 1999

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### Groundwater Sampling Report 990907-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

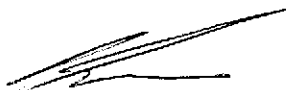
map which is located in the **Professional Engineering Appendix**.

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,



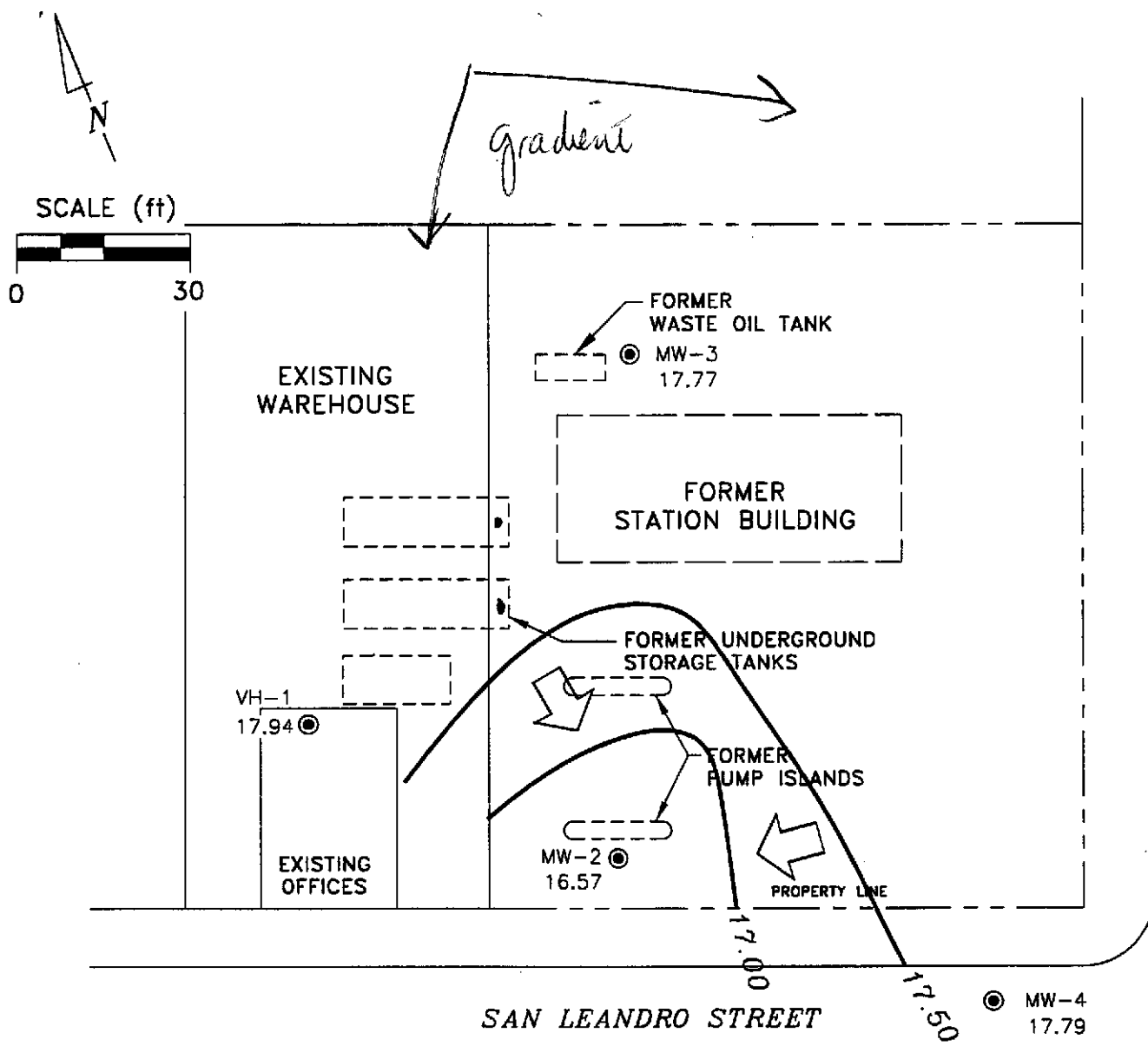
Scott Boor  
Project Coordinator

SDB/jh

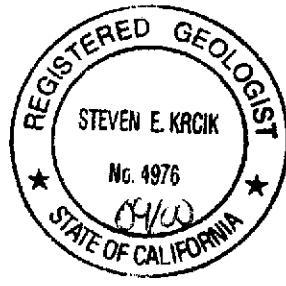
attachments: Professional Engineering Appendix  
Cumulative Table of Well Data and Analytical Results  
Analytical Appendix  
Field Data Sheets

cc: **Barney Chan, Alameda County Health Care Services**  
Jack Ratto  
Terry McIlraith  
Greg Gurss, Gettler-Ryan, Inc.,  
Bette Owen, Chevron Products Company (w/o enclosure)


# **Professional Engineering Appendix**



- EXPLANATION**
- MONITORING WELL
  - 17.94 GROUNDWATER ELEVATION (FT, MSL)
  - 17.00 — GROUNDWATER ELEVATION CONTOUR (FT, MSL)
  - ↘ APPROXIMATE GROUNDWATER FLOW DIRECTION;  
APPROXIMATE GRADIENT = 0.03



Basemap from Cambria Environmental Technology, Inc.

PREPARED BY 	<p style="text-align: center;"><b>Chevron Station 9-4612</b>          3616 San Leandro Street          Oakland, California</p> <p style="text-align: center;"><b>GROUNDWATER ELEVATION CONTOUR MAP,          SEPTEMBER 7, 1999</b></p>	<p style="text-align: center;">FIGURE:  <b>1</b>          PROJECT:          DAC04</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	TPH-Diesel	TOG	HVOC	MTBE	MTBE by 8260
<b>VH-1</b>														
08/10/88	--	--	13.00	--	11,000	3300	200	520	540	--	--	--	--	--
06/01/89	--	--	10.32	--	15,000	2200	120	540	310	--	--	--	--	--
09/15/89	--	--	15.69	--	5600	1900	90	350	160	--	--	--	--	--
12/08/89	--	--	14.77	--	11,000	1900	69	270	99	--	--	--	--	--
03/07/91	--	--	11.26	--	4500	820	39	120	77	--	--	--	--	--
09/24/91	--	--	12.98	--	3300	520	19	39	27	--	--	--	--	--
01/08/92	--	--	13.77	--	5000	600	34	81	76	--	--	--	--	--
04/20/92	--	--	8.18	--	7400	670	60	110	140	--	--	--	--	--
03/26/93	27.85	21.14	6.71	--	4900	600	40	72	94	--	--	--	--	--
05/27/93	27.85	19.27	8.58	--	13,000	1600	120	230	220	--	--	--	--	--
08/18/93	27.85	17.39	10.46	--	2700	210	10	8.1	18	--	--	--	--	--
11/03/93	27.85	15.28	12.57	--	4600	680	42	35	68	--	--	--	--	--
02/10/94	27.85	18.77	9.08	--	1900	260	19	22	29	--	--	--	--	--
05/12/94	27.85	19.76	8.09	--	2000	390	28	3.9	29	--	--	--	--	--
08/26/94	27.85	17.10	10.75	--	4900	500	<5.0	23	31	--	--	--	--	--
11/14/94	27.85	18.40	9.45	--	760	69	<2.0	<2.0	2.2	300	--	--	--	--
02/01/95	27.85	21.88	5.97	--	1300	120	5.9	<0.5	13	--	--	--	--	--
05/12/95	27.85	20.14	7.71	--	4400	460	31	45	49	--	--	--	--	--
08/22/95	27.85	18.59	9.26	--	2900	310	15	28	32	--	--	--	--	--
12/19/95	27.85	19.05	8.80	--	930	53	<2.5	<2.5	<2.5	--	--	--	39	--
01/31/96	27.85	22.35	5.50	--	3700	320	<10	41	40	--	--	--	180	--
04/30/96	27.85	19.81	8.04	--	3900	270	<20	<20	<20	--	--	--	120	--
08/01/96	27.85	18.67	9.18	--	2700	140	11	18	28	--	--	--	200	--
10/30/96	27.85	18.67	10.76	--	2700	140	<12	<12	<12	--	--	--	280	--
02/07/97	27.85	19.75	8.10	--	220	13	0.6	<0.5	1.6	--	--	--	15	--
05/07/97	27.85	18.33	9.52	--	5200	33	12	21	26	--	--	--	330	--
07/22/97	27.85	17.43	10.42	--	4200	80	<10	16	24	--	--	--	400	--
11/03/97	27.85	16.85	11.00	--	2400	150	6.8	6.5	9.5	--	--	--	510	--
01/28/98	27.85	20.75	7.10	--	850	69	4.8	5.0	11	--	--	--	38	48
05/08/98	27.85	20.14	7.71	--	4200	200	30	40	42	--	--	--	310	200
07/29/98	27.85	18.40	9.45	--	3800	54	10	27	30	--	--	--	35	290
11/06/98	27.85	17.15	10.70	--	4800	100	20	12	23	--	--	--	360	210
02/09/99	27.85	21.87	5.98	ORC socks installed	2950	79.5	<10	<10	<10	--	--	--	435	312
05/13/99	27.85	19.71	8.14	--	4180	147	12.8	16.5	20.3	--	--	--	433	245
09/07/99	27.85	17.94	9.91	--	2750	57.6	<5.0	6.53	<5.0	--	--	--	297	233

## 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	TPH-Diesel	TOG	HVOC	MTBE	MTBE by 8260
<b>MW-2</b>														
02/16/93	27.51	--	--	--	9200	720	110	250	170	--	--	--	--	--
03/26/93	27.51	19.89	7.62	--	--	--	--	--	--	--	--	--	--	--
05/27/93	27.51	18.04	9.47	--	360	5.3	2.1	1.8	2.5	--	--	--	--	--
08/18/93	27.51	16.46	11.05	--	9400	1100	76	110	100	--	--	--	--	--
11/03/93	27.51	14.56	12.95	--	8600	390	20	2.7	120	--	--	--	--	--
02/10/94	27.51	17.72	9.79	--	2700	370	38	44	41	--	--	--	--	--
05/12/94	27.51	18.59	8.92	--	3800	650	76	15	62	--	--	--	--	--
08/26/94	27.51	16.14	11.37	--	16,000	1300	270	28	120	--	--	--	--	--
11/14/94	27.51	17.48	10.03	--	5100	390	10	43	27	--	--	--	--	--
02/01/95	27.51	20.47	7.04	--	6900	520	82	170	110	--	--	--	--	--
05/12/95	27.51	18.76	8.75	--	7700	510	83	110	100	--	--	--	--	--
08/22/95	27.51	17.35	10.16	--	4500	220	16	61	47	--	--	--	--	--
12/19/95	27.51	18.05	9.46	--	2900	240	<10	19	18	--	--	--	220	--
01/31/96	27.51	21.91	5.60	--	3900	320	18	72	39	--	--	--	<25	--
04/30/96	27.51	18.68	8.83	--	5600	200	36	55	47	--	--	--	170	--
08/01/96	27.51	17.25	10.26	--	6200	190	15	62	59	--	--	--	220	--
10/30/96	27.51	17.25	11.48	--	5700	190	<25	67	36	--	--	--	260	--
02/07/97	27.51	18.11	9.40	--	8300	210	34	70	59	--	--	--	330	--
05/07/97	27.51	17.57	9.94	--	6900	190	12	38	37	--	--	--	530	--
07/22/97	27.51	16.36	11.15	--	10,000	18	25	62	41	--	--	--	630	--
11/03/97	27.51	15.93	11.58	--	6500	260	8.5	26	14	--	--	--	590	--
11/03/97	27.51	15.93	11.58	Confirmation run	--	--	--	--	--	--	--	--	--	96
01/28/98	27.51	19.38	8.13	--	6700	65	13	67	54	--	--	--	280	94
05/08/98	27.51	18.89	8.62	--	5500	91	38	43	61	--	--	--	220	62
07/29/98	27.51	17.06	10.45	--	3600	41	8.9	3.6	14	--	--	--	16	94
11/06/98	27.51	15.89	11.62	--	6900	77	<5.0	14	17	--	--	--	290	110
02/09/99	27.51	20.61	6.90	ORC socks installed	8070	75.6	<10	<10	<10	--	--	--	397	144
05/13/99	27.51	18.21	9.30	--	5890	120	<5.0	12.5	26.6	--	--	--	401	69.4
09/07/99	27.51	16.57	10.94	--	5820	41.2	<5.0	14.6	<5.0	--	--	--	260	145

[MTBE]

MW2 < UH-1



## 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	TPH-Diesel	TOG	HVOC	MTBE	MTBE by 8260
<b>MW-3</b>														
02/16/93	28.50	--	--	--	3500	<0.5	8.1	4.6	7.7	--	--	--	--	--
03/26/93	28.50	21.32	7.18	--	--	--	--	--	--	--	--	--	--	--
05/27/93	28.50	19.17	9.33	--	4200	580	84	150	100	--	--	--	--	--
08/18/93	28.50	16.50	12.00	--	910	12	3.7	6.2	3.8	1400	<5000	ND	--	--
11/03/93	28.50	15.21	13.29	--	5300	29	1.9	0.6	27	--	--	--	--	--
02/10/94	28.50	18.87	9.63	--	63	<0.5	0.7	<0.5	<0.5	<50	--	--	--	--
05/12/94	28.50	19.73	8.77	--	<50	<0.5	0.5	<0.5	<0.5	84	--	--	--	--
08/26/94	28.50	17.08	11.42	--	2100	12	<0.5	5.0	0.5	--	--	--	--	--
11/14/94	28.50	18.43	10.07	--	140	0.78	<0.5	<0.5	<0.5	--	--	--	--	--
02/01/95	28.50	22.21	6.29	--	<50	<0.5	<0.5	<0.5	<0.5	<50	--	--	--	--
05/12/95	28.50	20.43	8.07	--	330	13	1.1	1.9	0.69	540*	--	--	--	--
08/22/95	28.50	18.55	9.95	--	980	32	<1.0	<1.0	<1.0	550*	--	--	--	--
12/19/95	28.50	19.10	9.40	--	<50	<0.5	<0.5	<0.5	<0.5	<50	--	--	<2.5	--
01/31/96	28.50	23.45	5.05	--	<50	<0.5	<0.5	<0.5	<0.5	<50	--	--	<2.5	--
04/30/96	28.50	20.10	8.40	--	320	2.4	<0.5	0.75	<0.5	240*	--	--	7.8	--
08/01/96	28.50	18.70	9.80	--	980	9.6	<0.5	0.98	2.2	470*	--	--	54	--
10/30/96	28.50	18.70	11.48	--	2000	14	<10	<10	<10	760*	--	--	140	--
02/07/97	28.50	19.90	8.60	--	200*	<0.5	<0.5	<0.5	<0.5	61*	--	--	8.9	--
05/07/97	28.50	19.49	9.01	--	3500	14	3.9	3.6	8.0	550*	--	--	160	--
07/22/97	28.50	17.38	11.12	--	3500	55	<10	<10	<10	800*	--	--	150	--
11/03/97	28.50	16.99	11.51	--	4100	140	<5.0	<5.0	<5.0	910*	--	--	380	--
01/28/98	28.50	21.16	7.34	--	1100	24	<1.2	<1.2	2.8	--	--	--	33	6.1
05/08/98	28.50	20.44	8.06	--	990	3.6	7.7	0.7	2.2	250*	--	--	37	7.5
07/29/98	28.50	18.25	10.25	--	1200	13	<0.5	<0.5	1.4	290*	--	--	11	28
11/06/98	28.50	17.11	11.39	--	2600	5.3	<2.5	<2.5	3.0	390*	--	--	91	41
02/09/99	28.50	22.40	6.10	ORC socks installed	406	<1.0	4.03	<1.0	<1.0	184*	--	--	17.7	1.97
05/13/99	28.50	19.38	9.12	--	615	13.8	1.05	<0.5	<0.5	--	--	--	43.5	21.2
09/07/99	28.50	17.77	10.73	--	2710	<5.0	<5.0	<5.0	<5.0	528*	--	--	96.3	57.9

\* Chromatogram pattern indicates an unidentified hydrocarbon.

## 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	TPH-Diesel	TOG	HVOC	MTBE	MTBE by 8260
<b>MW-4</b>														
08/22/95	27.27	18.16	9.11	--	9600	100	<10	<10	<10	--	--	--	--	--
12/19/95	27.27	18.97	8.30	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	<2.5	--
01/31/96	27.27	21.67	5.60	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	<2.5	--
04/30/96	27.27	20.27	7.00	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	<2.5	--
08/01/96	27.27	18.12	9.15	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
10/30/96	27.27	18.12	10.74	--	110	<0.5	<0.5	<0.5	<0.5	--	--	--	<2.5	--
02/07/97	27.27	19.47	7.80	--	80	<0.5	<0.5	<0.5	<0.5	--	--	--	4.1	--
05/07/97	27.27	21.42	5.85	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	<2.5	--
07/22/97	27.27	17.22	10.05	--	150	<0.5	<0.5	<0.5	<0.5	--	--	--	<2.5	--
11/03/97	27.27	16.55	10.72	--	52	0.9	<0.5	<0.5	<0.5	--	--	--	*	--
01/28/98	27.27	20.76	6.51	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	<2.5	<2.0
05/08/98	27.27	20.25	7.02	--	56	<0.5	<0.5	<0.5	<0.5	--	--	--	<2.5	<2.0
07/29/98	27.27	18.32	8.95	--	<50	0.9	<0.5	<0.5	<0.5	--	--	--	<2.5	<2.0
11/06/98	27.27	16.68	10.59	--	72	<0.5	<0.5	<0.5	<0.5	--	--	--	<2.5	<2.0
02/09/99	27.27	21.41	5.86	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	<2.0	1.1
05/13/99	27.27	19.32	7.95	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	<5.0	<2.0
09/07/99	27.27	17.79	9.48	--	70.2	<0.5	<0.5	<0.5	<0.5	--	--	--	<2.0	<1.0

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

## 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	TPH-Diesel	TOG	HVOC	MTBE	MTBE by 8260
<b>TRIP BLANK</b>														
05/27/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--	--	--	--
08/18/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	1400	<5000	ND	--	--
11/03/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
02/10/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<50	--	--	--	--
05/12/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	84	--	--	--	--
08/26/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
11/14/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
02/01/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
05/12/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
08/22/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
12/19/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
01/31/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	<2.5	--
04/30/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	<2.5	--
08/01/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	<2.5	--
10/30/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	<2.5	--
02/07/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	<2.5	--
05/07/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	<2.5	--
07/22/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	<2.5	--
01/28/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	<2.5	--
05/08/98	--	--	--	--	--	--	--	--	--	--	--	--	--	<2.0
07/29/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	<2.0
11/06/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	<2.5	--
02/09/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	<2.0	--
05/13/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	<5.0	<2.0
09/07/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	<2.0	--

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  
 TOG = Total Oil & Grease  
 HVOC = Halogenated Volatile Organic Compounds  
 MTBE = Methyl t-Butyl Ether

# **Analytical Appendix**



# Sequoia Analytical

1455 McDowell Blvd. North, Ste. D  
Petaluma, CA 94954  
(707) 792-1865  
FAX (707) 792-0342

October 6, 1999

Fran Thie  
Blaine Tech Services, Inc.  
1680 Rogers Ave.  
San Jose, CA 95112

RE: Chevron USA, Inc./P909285

Dear Fran Thie

Enclosed are the results of analyses for sample(s) received by the laboratory on September 8, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Marvin Heskett  
Project Manager

CA ELAP Certificate Number I-2374





Blaine Tech Services, Inc.  
1680 Rogers Ave.  
San Jose, CA 95112

Project: Chevron USA, Inc.  
Project Number: 990907-K1/9-4612  
Project Manager: Fran Thie

Sampled: 9/7/99  
Received: 9/8/99  
Reported: 10/6/99

**ANALYTICAL REPORT FOR P909285**

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
VH-1	P909285-01	Water	9/7/99
MW-2	P909285-02	Water	9/7/99
MW-3	P909285-03	Water	9/7/99
MW-4	P909285-04	Water	9/7/99
TB	P909285-05	Water	9/7/99





Blaine Tech Services, Inc. 1680 Rogers Ave. San Jose, CA 95112	Project: Chevron USA, Inc. Project Number: 990907-K1/9-4612 Project Manager: Fran Thie	Sampled: 9/7/99 Received: 9/8/99 Reported: 10/6/99
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**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M  
Sequoia Analytical - Petaluma**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
<b>VH-1</b>				<b>P909285-01</b>		<b>Water</b>		
Gasoline	9090327	9/14/99	9/14/99		500	2750	ug/l	1
Benzene	"	"	"		5.00	57.6	"	
Toluene	"	"	"		5.00	ND	"	
Ethylbenzene	"	"	"		5.00	6.53	"	
Xylenes (total)	"	"	"		5.00	ND	"	
Methyl tert-butyl ether	"	"	"		20.0	297	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		107	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		97.0	"	
<b>MW-2</b>				<b>P909285-02</b>		<b>Water</b>		
Gasoline	9090327	9/14/99	9/14/99		500	5820	ug/l	1
Benzene	"	"	"		5.00	41.2	"	
Toluene	"	"	"		5.00	ND	"	
Ethylbenzene	"	"	"		5.00	14.6	"	
Xylenes (total)	"	"	"		5.00	ND	"	
Methyl tert-butyl ether	"	"	"		20.0	260	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		107	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		96.3	"	
<b>MW-3</b>				<b>P909285-03</b>		<b>Water</b>		
Gasoline	9090327	9/14/99	9/14/99		500	2710	ug/l	1
Benzene	"	"	"		5.00	ND	"	
Toluene	"	"	"		5.00	ND	"	
Ethylbenzene	"	"	"		5.00	ND	"	
Xylenes (total)	"	"	"		5.00	ND	"	
Methyl tert-butyl ether	"	"	"		20.0	96.3	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		104	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		97.7	"	
<b>MW-4</b>				<b>P909285-04</b>		<b>Water</b>		
Gasoline	9090327	9/14/99	9/14/99		50.0	70.2	ug/l	1
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		108	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		100	"	
<b>TB</b>				<b>P909285-05</b>		<b>Water</b>		
Gasoline	9090327	9/14/99	9/14/99		50.0	ND	ug/l	





Blaine Tech Services, Inc. 1680 Rogers Ave. San Jose, CA 95112	Project: Chevron USA, Inc. Project Number: 990907-K1/9-4612 Project Manager: Fran Thie	Sampled: 9/7/99 Received: 9/8/99 Reported: 10/6/99
--	--	--

**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M  
Sequoia Analytical - Petaluma**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
<b><u>TB (continued)</u></b>				<b><u>P909285-05</u></b>			<b><u>Water</u></b>	
Benzene	9090327	9/14/99	9/14/99		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.00	ND	"	
Surrogate: <i>a,a,a-Trifluorotoluene</i>	"	"	"	65.0-135		108	%	
Surrogate: <i>4-Bromofluorobenzene</i>	"	"	"	65.0-135		96.7	"	







Blaine Tech Services, Inc. 1680 Rogers Ave. San Jose, CA 95112	Project: Chevron USA, Inc. Project Number: 990907-K1/9-4612 Project Manager: Fran Thie	Sampled: 9/7/99 Received: 9/8/99 Reported: 10/6/99
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**Total Petroleum Hydrocarbons as Diesel & others by EPA 8015M  
Sequoia Analytical - Petaluma**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
<u>MW-3</u>				<u>P909285-03</u>			<u>Water</u>	
Diesel (C10-C24)	9090539	9/21/99	9/23/99		0.0500	<b>0.528</b>	mg/l	1
Surrogate: o-Terphenyl	"	"	"	50.0-150		81.4	%	





Blaine Tech Services, Inc. 1680 Rogers Ave. San Jose, CA 95112	Project: Chevron USA, Inc. Project Number: 990907-K1/9-4612 Project Manager: Fran Thie	Sampled: 9/7/99 Received: 9/8/99 Reported: 10/6/99
--	--	--

**Volatile Organic Compounds by EPA Method 8260B  
Sequoia Analytical - Petaluma**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
<u>VH-1</u>				<u>P909285-01</u>			<u>Water</u>	
Methyl tert-butyl ether	9090328	9/14/99	9/15/99		100	233	ug/l	
Surrogate: Dibromofluoromethane	"	"	"	86.0-118		96.8	%	
<u>MW-2</u>				<u>P909285-02</u>			<u>Water</u>	
Methyl tert-butyl ether	9090328	9/14/99	9/15/99		100	145	ug/l	
Surrogate: Dibromofluoromethane	"	"	"	86.0-118		100	%	
<u>MW-3</u>				<u>P909285-03</u>			<u>Water</u>	
Methyl tert-butyl ether	9090328	9/14/99	9/15/99		50.0	57.9	ug/l	
Surrogate: Dibromofluoromethane	"	"	"	86.0-118		101	%	
<u>MW-4</u>				<u>P909285-04</u>			<u>Water</u>	
Methyl tert-butyl ether	9090328	9/14/99	9/15/99		1.00	ND	ug/l	2
Surrogate: Dibromofluoromethane	"	"	"	86.0-118		100	%	





Blaine Tech Services, Inc. 1680 Rogers Ave. San Jose, CA 95112	Project: Chevron USA, Inc. Project Number: 990907-K1/9-4612 Project Manager: Fran Thie	Sampled: 9/7/99 Received: 9/8/99 Reported: 10/6/99
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**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M/Quality Control  
 Sequoia Analytical - Petaluma**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
<b>Batch: 9090327</b>			<b>Date Prepared: 9/14/99</b>			<b>Extraction Method: EPA 5030 waters</b>				
<b>Blank</b>			<b>9090327-BLK1</b>							
Gasoline	9/14/99			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	"	2.00				
Surrogate: a,a,a-Trifluorotoluene	"	300		329	"	65.0-135	110			
Surrogate: 4-Bromofluorobenzene	"	300		294	"	65.0-135	98.0			
<b>Blank</b>			<b>9090327-BLK2</b>							
Gasoline	9/15/99			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	"	2.00				
Surrogate: a,a,a-Trifluorotoluene	"	300		323	"	65.0-135	108			
Surrogate: 4-Bromofluorobenzene	"	300		285	"	65.0-135	95.0			
<b>LCS</b>			<b>9090327-BS1</b>							
Benzene	9/14/99	100		102	ug/l	65.0-135	102			
Toluene	"	100		101	"	65.0-135	101			
Ethylbenzene	"	100		98.0	"	65.0-135	98.0			
Xylenes (total)	"	300		322	"	65.0-135	107			
Surrogate: a,a,a-Trifluorotoluene	"	300		316	"	65.0-135	105			
<b>LCS</b>			<b>9090327-BS2</b>							
Gasoline	9/15/99	1000		941	ug/l	65.0-135	94.1			
Surrogate: 4-Bromofluorobenzene	"	300		287	"	65.0-135	95.7			
<b>Matrix Spike</b>			<b>9090327-MS1 P909280-02</b>							
Benzene	9/14/99	100	ND	107	ug/l	65.0-135	107			
Toluene	"	100	0.551	106	"	65.0-135	105			
Ethylbenzene	"	100	ND	103	"	65.0-135	103			
Xylenes (total)	"	300	ND	337	"	65.0-135	112			
Surrogate: a,a,a-Trifluorotoluene	"	300		331	"	65.0-135	110			
<b>Matrix Spike Dup</b>			<b>9090327-MSD1 P909280-02</b>							
Benzene	9/14/99	100	ND	104	ug/l	65.0-135	104	20.0	2.84	
Toluene	"	100	0.551	103	"	65.0-135	102	20.0	2.90	





Blaine Tech Services, Inc. 1680 Rogers Ave. San Jose, CA 95112	Project: Chevron USA, Inc. Project Number: 990907-K1/9-4612 Project Manager: Fran Thie	Sampled: 9/7/99 Received: 9/8/99 Reported: 10/6/99
--	--	--

**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M/Quality Control  
Sequoia Analytical - Petaluma**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
<b>Matrix Spike Dup (continued)</b>	<b>9090327-MSD1</b>	<b>P909280-02</b>								
Ethylbenzene	9/14/99	100	ND	101	ug/l	65.0-135	101	20.0	1.96	
Xylenes (total)	"	300	ND	331	"	65.0-135	110	20.0	1.80	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	300		323	"	65.0-135	108			





Blaine Tech Services, Inc. 1680 Rogers Ave. San Jose, CA 95112	Project: Chevron USA, Inc. Project Number: 990907-K1/9-4612 Project Manager: Fran Thie	Sampled: 9/7/99 Received: 9/8/99 Reported: 10/6/99
--	--	--

**Total Petroleum Hydrocarbons as Diesel & others by EPA 8015M/Quality Control  
Sequoia Analytical - Petaluma**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
<b>Batch: 9090539</b>		<b>Date Prepared: 9/21/99</b>			<b>Extraction Method: EPA 3520B</b>					
<b>Blank</b>		<b>9090539-BLK1</b>								
Diesel (C10-C24)	9/23/99			0.0804	mg/l	0.0500				3
Surrogate: o-Terphenyl	"	0.100		0.0948	"	50.0-150	94.8			
<b>LCS</b>		<b>9090539-BS1</b>								
Diesel (C10-C24)	9/23/99	1.00		0.695	mg/l	50.0-150	69.5			
Surrogate: o-Terphenyl	"	0.100		0.0892	"	50.0-150	89.2			
<b>LCS Dup</b>		<b>9090539-BSD1</b>								
Diesel (C10-C24)	9/23/99	1.00		0.788	mg/l	50.0-150	78.8	20.0	12.5	
Surrogate: o-Terphenyl	"	0.100		0.0895	"	50.0-150	89.5			
<b>Batch: 9090648</b>		<b>Date Prepared: 9/24/99</b>			<b>Extraction Method: EPA 3510B</b>					
<b>Blank</b>		<b>9090648-BLK1</b>								
Diesel (C10-C24)	9/27/99			ND	mg/l	0.0500				
Surrogate: o-Terphenyl	"	0.100		0.0875	"	50.0-150	87.5			
<b>LCS</b>		<b>9090648-BS1</b>								
Diesel (C10-C24)	9/27/99	1.00		0.853	mg/l	50.0-150	85.3			
Surrogate: o-Terphenyl	"	0.100		0.0873	"	50.0-150	87.3			
<b>LCS Dup</b>		<b>9090648-BSD1</b>								
Diesel (C10-C24)	9/27/99	1.00		0.822	mg/l	50.0-150	82.2	20.0	3.70	
Surrogate: o-Terphenyl	"	0.100		0.0880	"	50.0-150	88.0			





Blaine Tech Services, Inc. 1680 Rogers Ave. San Jose, CA 95112	Project: Chevron USA, Inc. Project Number: 990907-K1/9-4612 Project Manager: Fran Thie	Sampled: 9/7/99 Received: 9/8/99 Reported: 10/6/99
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**Volatile Organic Compounds by EPA Method 8260B/Quality Control  
 Sequoia Analytical - Petaluma**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
<b>Batch: 9090328</b>		<b>Date Prepared: 9/14/99</b>		<b>Extraction Method: EPA 5030 waters</b>						
<b>Blank</b>		<b>9090328-BLK1</b>								
Methyl tert-butyl ether	9/14/99			ND	ug/l	0.500				
Surrogate: Dibromofluoromethane	"	5.00		4.97	"	86.0-118	99.4			
<b>Blank</b>		<b>9090328-BLK2</b>								
Methyl tert-butyl ether	9/14/99			ND	ug/l	0.500				
Surrogate: Dibromofluoromethane	"	5.00		4.98	"	86.0-118	99.6			
<b>LCS</b>		<b>9090328-BS1</b>								
Methyl tert-butyl ether	9/14/99	5.00		5.34	ug/l	72.7-119	107			
Surrogate: Dibromofluoromethane	"	5.00		4.96	"	86.0-118	99.2			
<b>LCS</b>		<b>9090328-BS2</b>								
Methyl tert-butyl ether	9/14/99	5.00		5.23	ug/l	72.7-119	105			
Surrogate: Dibromofluoromethane	"	5.00		4.91	"	86.0-118	98.2			
<b>Matrix Spike</b>		<b>9090328-MS1</b>		<b>P909164-16</b>						
Methyl tert-butyl ether	9/14/99	5.00	ND	5.05	ug/l	72.7-119	101			
Surrogate: Dibromofluoromethane	"	5.00		5.01	"	86.0-118	100			
<b>Matrix Spike Dup</b>		<b>9090328-MSD1</b>		<b>P909164-16</b>						
Methyl tert-butyl ether	9/14/99	5.00	ND	5.81	ug/l	72.7-119	116	20.0	13.8	
Surrogate: Dibromofluoromethane	"	5.00		5.29	"	86.0-118	106			





Blaine Tech Services, Inc. 1680 Rogers Ave. San Jose, CA 95112	Project: Chevron USA, Inc. Project Number: 990907-K1/9-4612 Project Manager: Fran Thie	Sampled: 9/7/99 Received: 9/8/99 Reported: 10/6/99
--	--	--

**Notes and Definitions**

#	Note
1	Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.
2	The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.
3	Method blank results in the diesel range are due to a low level laboratory contaminate. Pattern observed does not match a target analyte.
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



REVERSE SIDE

9909285

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

# Chain-of-Custody-Record

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

Chevron Facility Number 9-4612  
Facility Address 3616 San Leandro St., Oakland  
Consultant Project Number 990907-K1  
Consultant Name BLAINE TECH SERVICE, INC.  
Address 1680 ROGERS AVE., SAN JOSE  
Project Contact (Name) CHRISTINE LILLIE  
(Phone) 408-573-0555 (Fax Number) 408-573-7771

Chevron Contact (Name) PHIL BRIGGS  
(Phone) (925) 842-9136  
Laboratory Name SEQUOIA  
Laboratory Service Order 9144488  
Laboratory Service Code ZZ02800  
Samples Collected by (Name) MATTHEW SMITH  
Signature Matthew Smith

State Method:  CA  OR  WA  NW Series  CO  UT

Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Crudeoil	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				
					BITX/MTBE/TPH GAS (8020 + 8015)	BTX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Drypointes (8280)	Purgeable Hydrocarbons (8010)	Purgeable Organics (8280)	Extractable Organics (8270)	Oil and Grease (8520)	Metals (ICAP or AA) Cd,Cr,Pb,Zn,Mn	BTX (8020)	BTX/MTBE/Naph. (8020)	TPH - HCD	TPH-D Extended	MATRIX BY 8200	Lab Sample No.					
VH-1	6	W	90ml	9/1/99	1508	X															8200		9909285-0	
MW-2	6	W	100ml	9/1/99	1210	X																		-02
MW-3	8	W	100ml	9/1/99	1292	X	X																	-03
MW-4	6	W	100ml	9/1/99	1328	X																		-04
TB	2	W	100ml	9/1/99		X																		-05

Relinquished By (Signature) <u>Matthew Smith</u>	Organization <u>BTS</u>	Date/Time <u>9/1/99 09:00</u>	Received By (Signature) <u>[Signature]</u>	Organization <u>SEQUOIA</u>	Date/Time <u>9/8/99</u>	Lead Y/N	Turn Around Time (Circle Choice) 24 hrs. 48 hrs. 5 Days 10 Days As Contracted
Relinquished By (Signature) <u>TJT (MH)</u>	Organization <u>SA</u>	Date/Time <u>9-10-99 11:30</u>	Received By (Signature)	Organization	Date/Time	Lead Y/N	
Relinquished By (Signature)	Organization	Date/Time	Received for Laboratory By (Signature) <u>[Signature]</u>	Organization	Date/Time <u>9/10/99</u>	Lead Y/N <u>NO</u>	

SEP-08 99 (WED) 13:25

BLAINE TECH SERVICES, INC

TEL: 408 573 7771

P. 002



# **Field Data Sheets**



# CHEVRON WELL MONITORING DATA SHEET

Project #: 990907-K1	Station #: 9-4612
Sampler: MATT	Date: 9/7/99
Well I.D.: VH-1	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 28.57	Depth to Water: 9.91
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</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: Bailer Disposable Bailer Middleburg <del>Electric Submersible</del> Extraction Pump Other: _____	Sampling Method: Bailer <del>Disposable Bailer</del> Extraction Port Other: _____
---	--

12.1	x	3	=	36.5	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1458	71.0	7.1	1110	12.5	
1500	69.3	7.1	1120	25	
1502	68.9	7.0	1060	37	
					DO: 5.6

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: 37
Sampling Time: 1508	Sampling Date: 9/7/99
Sample I.D.: VH-1	Laboratory: <u>Sequoia</u> GTEL N. Creek Assoc. Labs
Analyzed for: <u>TPH-G</u> <u>BTEX</u> <u>MTBE</u> TPH-D Other: 8260	
Duplicate I.D.:	Analyzed for: TPH-G BTEX MTBE TPH-D Other:
D.O. (if req'd):	Pre-purge: <u>5.6</u> mg/L Post-purge: mg/L
O.R.P. (if req'd):	Pre-purge: mV Post-purge: mV

# CHEVRON WELL MONITORING DATA SHEET

Project #: 990907-K1	Station #: 9-4612
Sampler: MAT	Date: 9/7/99
Well I.D.: MW-2	Well Diameter: ② 3 4 6 8
Total Well Depth: 19.80	Depth to Water: 10.94
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 <del>Disposable Bailer</del> Middleburg Electric Submersible Extraction Pump Other: _____	Sampling Method: Bailer <del>Disposable Bailer</del> Extraction Port Other: _____
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1.4	x	3	=	4.2	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1203	68.8	6.9	1030	1.5	
1206	68.5	6.9	1020	3.0	
1209	67.9	6.9	1010	4.5	

Did well dewater? Yes <input checked="" type="checkbox"/>	Gallons actually evacuated: 4.5	
Sampling Time: 1210	Sampling Date: 9/7/99	
Sample I.D.: MW-2	Laboratory: Sequoia GTEL N. Creek Assoc. Labs	
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: 8260	
Duplicate I.D.:	Analyzed for: TPH-G BTEX MTBE TPH-D Other:	
D.O. (if req'd):	Pre-purge: 0.6 mg/L	Post-purge: mg/L
O.R.P. (if req'd):	Pre-purge: mV	Post-purge: mV

ORC expended?

# CHEVRON WELL MONITORING DATA SHEET

Project #: <b>990907-K1</b>	Station #: <b>9-4612</b>
Sampler: <b>MA TT</b>	Date: <b>9-7-99</b>
Well I.D.: <b>MW-3</b>	Well Diameter: <b>(2)</b> 3 4 6 8 _____
Total Well Depth: <b>19.22</b>	Depth to Water: <b>10.73</b>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <b>(PVC)</b> Grade	D.O. Meter (if req'd): <b>(YSI)</b> 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~~                      ~~Disposable Bailer~~  
 Middleburg                                      Extraction Port  
 Electric Submersible                      Other: \_\_\_\_\_  
 Extraction Pump

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
1233	67.5	7.0	1030	1.5	
1236	67.2	7.0	1020	3.0	*ORC's in place
1239	66.9	7.0	1020	4.5	

Did well dewater?    Yes    **(No)**    Gallons actually evacuated: **4.5**

Sampling Time: **1242**    Sampling Date: **9-7-99**

Sample I.D.: **1242 MW3**    Laboratory: **Seqoia** GTEL N. Creek Assoc. Labs

Analyzed for: **(TPH-G) (BTEX) (MTBE) (TPH-D)**    Other: **8200**

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

D.O. (if req'd):	Pre-purge:	<b>0.8</b>	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:		mV	Post-purge:	mV

# CHEVRON WELL MONITORING DATA SHEET

Project #: 990907-K1	Station #: 9-4612
Sampler: MATT	Date: 9/7/99
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8
Total Well Depth: 19.76	Depth to Water: 9.48
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (EVC) 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~~      ~~Disposable Bailer~~  
 Middleburg      Extraction Port  
 Electric Submersible      Other: \_\_\_\_\_  
 Extracution Pump

1.6	x	3	=	9.8	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1320	69.6	7.1	560	1.6	
1323	69.7	6.9	560	3.2	
1340	69.7	6.9	560	5	

Did well dewater? Yes  No  Gallons actually evacuated: 5

Sampling Time: 1328      Sampling Date: 9/7/99

Sample I.D.: MW-4      Laboratory: Sequoia GTEL N. Creek Assoc. Labs

Analyzed for: ~~TPH-G~~ ~~BTEX~~ ~~MTBE~~ TPH-D      Other: 8260

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

D.O. (if req'd):	Pre-purge: 2.8 mg/L	Post-purge: mg/L
O.R.P. (if req'd):	Pre-purge: mV	Post-purge: mV

BG?