



**Chevron**

May 11, 1999

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

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

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

**Re: Chevron Service Station #9-0290  
1802 Webster Street, Alameda, California**

Dear Ms. Chu:

Enclosed is the First Quarter Groundwater Monitoring Report for 1999 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, TPH-d, BTEX and MtBE constituents.

Monitoring wells A-1, B-1, B-5, B-7, B-10, B-11, B-12 and B-13 are analyzed for the presence of TPH-g, TPH-d, BTEX and MtBE constituents. Well B-6 was only sampled for TPH-d and MtBE constituents in this sampling event. Well B-7 is sampled semi-annually in the 1<sup>st</sup> and 3<sup>rd</sup> quarters.

Monitoring well B-7 was below method detection limits for all the constituents, while well B-5 was below method detection limits for the TPH-g and BT constituents. The benzene constituent increased in well B-10 from the previous sampling event, while decreasing in wells B-1, B-11, B-12 and B-13. The MtBE constituent increased in wells B-1, B-10, B-11, B-12 and B-13, while decreasing in wells B-5 and B-6 from the previous sampling event. Separate phase hydrocarbon (SPH) was detected in monitoring well A-1 and approximately 0.066 gallons was bailed from the well.

The result of the TPH-d analysis in all of the wells indicates the presence of an unidentified hydrocarbon.

Depth to ground water varied from 3.30 feet to 4.41 feet below grade with a direction of flow northwesterly.

516 AM 9:15  
9 MAY 14 1999  
ENVIRONMENTAL PROTECTION  
AGENCY

May 11, 1999  
Ms. Eva Chu  
Chevron Service Station #9-0290  
Page 2

Your letter of March 24, 1999, requested that a utility survey and risk assessment be conducted on this site. Chevron has authorized Cambria Environmental Technology, Inc. to perform this work. I would expect that the utility study would be completed within sixty days and the risk assessment within ninety days.

You also requested that monitoring well B-12 be sampled for TOG, HVOC's, SVOC's and metals (Cd, Cr, Pb, Ni and Zn) in the next sampling event. This sampling event will be conducted in the 2<sup>nd</sup> quarter.

Chevron will continue to monitor the wells in the sampling frequency as noted above. If you have any questions or comments, call me at (925) 842-9136.

Sincerely,  
**CHEVRON PRODUCTS COMPANY**



Philip R. Briggs  
Site Assessment and Remediation Project Manager

Enclosure

CC. Mr. Bill Scudder, Chevron

Mr. Arnold Cherry  
10 Kelsey Court  
Pleasant Hill, CA 94523

**BLAINE**  
TECH SERVICES INC.

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



May 5, 1999

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

### **1st Quarter 1999 Monitoring at 9-0290**

First Quarter 1999 Groundwater Monitoring at  
Chevron Service Station Number 9-0290  
1802 Webster Street  
Alameda, CA

Monitoring Performed on February 24, 1999

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### **Groundwater Sampling Report 990224-R-2**

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

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

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

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

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

Please call if you have any questions.

Yours truly,



Christine Lillie  
Project Coordinator

CAL/sb

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

# **Professional Engineering Appendix**

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

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.					Volumetric Measurements are in gallons.				Analytical results are in parts per billion (ppb)						
DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	SPH Thickness	Total SPH Removed	SPH Removed	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	TOG	TPH-Diesel	MTBE
<b>A-1</b>															
09/20/91	8.13	0.48	9.23	1.58	--	--	--	--	--	--	--	--	--	--	--
10/09/91	8.13	1.46	6.67	0.00	--	--	--	--	--	--	--	--	--	--	--
10/17/91	8.13	1.43	7.28	0.58	--	--	--	--	--	--	--	--	--	--	--
10/23/91	8.13	1.36	7.42	0.65	--	--	--	--	--	--	--	--	--	--	--
11/01/91	8.13	1.49	7.14	0.50	--	--	--	--	--	--	--	--	--	--	--
11/07/91	8.13	1.50	7.14	0.51	--	--	--	--	--	--	--	--	--	--	--
11/15/91	8.13	1.47	7.19	0.53	--	--	--	--	--	--	--	--	--	--	--
11/21/91	8.13	1.28	7.28	0.54	--	--	--	--	--	--	--	--	--	--	--
12/12/91	8.13	1.29	7.33	0.49	--	--	--	--	--	--	--	--	--	--	--
12/30/91	8.13	1.73	6.76	0.36	--	--	--	--	--	--	--	--	--	--	--
01/13/92	8.13	2.21	6.29	0.37	--	--	--	--	--	--	--	--	--	--	--
01/22/92	8.13	2.15	6.43	0.45	--	--	--	--	--	--	--	--	--	--	--
02/12/92	8.13	2.21	6.30	0.38	--	--	--	--	--	--	--	--	--	--	--
03/09/92	8.13	3.14	5.30	0.31	--	--	--	--	--	--	--	--	--	--	--
04/10/92	8.13	2.83	5.37	0.07	--	--	--	--	--	--	--	--	--	--	--
05/18/92	8.13	2.39	6.14	0.40	--	--	--	--	--	--	--	--	--	--	--
01/06/93	8.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--
02/03/93	8.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/23/93	11.56	6.19	5.85	0.60	--	--	--	--	--	--	--	--	--	--	--
06/11/93	11.56	--	--	--	2.000	2.000	--	--	--	--	--	--	--	--	--
06/15/93	11.56	--	--	--	0.130	2.130	--	--	--	--	--	--	--	--	--
06/18/93	11.56	--	--	--	0.130	2.260	--	--	--	--	--	--	--	--	--
06/22/93	11.56	--	--	--	0.500	2.760	--	--	--	--	--	--	--	--	--
06/29/93	11.56	--	--	--	--	2.760	--	--	--	--	--	--	--	--	--
07/09/93	11.56	--	--	--	--	2.760	--	--	--	--	--	--	--	--	--
07/15/93	11.56	--	--	--	--	2.760	--	--	--	--	--	--	--	--	--
07/19/93	11.56	5.54	6.23	0.26	2.000	4.760	--	--	--	--	--	--	--	--	--
07/20/93	11.56	--	--	--	--	4.760	--	--	--	--	--	--	--	--	--
07/27/93	11.56	--	--	--	--	4.760	--	--	--	--	--	--	--	--	--
08/06/93	11.56	--	--	--	--	4.760	--	--	--	--	--	--	--	--	--
08/10/93	11.56	--	--	--	--	4.760	--	--	--	--	--	--	--	--	--
08/16/93	11.56	--	--	--	--	4.760	--	--	--	--	--	--	--	--	--

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## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Volumetric Measurements are in gallons.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	SPH Thickness	Total SPH Removed	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	TOG	TPH-Diesel	MTBE
<b>A-1 (CONT'D)</b>														
09/16/93	11.56	--	--	--	--	4.760	--	--	--	--	--	--	--	--
09/24/93	11.56	--	--	--	--	4.760	--	--	--	--	--	--	--	--
10/01/93	11.56	--	--	--	--	4.760	--	--	--	--	--	--	--	--
10/07/93	11.56	--	--	--	--	4.760	--	--	--	--	--	--	--	--
10/13/93	11.56	--	--	--	--	4.760	--	--	--	--	--	--	--	--
10/19/93	11.56	--	--	0.10	--	4.760	--	--	--	--	--	--	--	--
10/20/93	11.56	--	--	--	--	4.760	--	--	--	--	--	--	--	--
10/28/93	11.56	--	--	--	--	4.760	--	--	--	--	--	--	--	--
11/12/93	11.56	--	--	--	--	4.760	--	--	--	--	--	--	--	--
11/19/93	11.56	--	--	--	--	4.760	--	--	--	--	--	--	--	--
11/30/93	11.56	--	--	--	--	4.760	--	--	--	--	--	--	--	--
12/10/93	11.56	--	--	--	--	4.760	--	--	--	--	--	--	--	--
12/16/93	11.56	--	--	--	--	4.760	--	--	--	--	--	--	--	--
12/23/93	11.56	--	--	--	--	4.760	--	--	--	--	--	--	--	--
12/29/93	11.56	--	--	--	--	4.760	--	--	--	--	--	--	--	--
01/03/94	11.56	--	--	--	--	4.760	--	--	--	--	--	--	--	--
01/17/94	11.56	--	--	--	--	4.760	--	--	--	--	--	--	--	--
01/26/94	11.56	--	--	--	--	4.760	--	--	--	--	--	--	--	--
02/07/94	11.56	--	--	--	--	4.760	--	--	--	--	--	--	--	--
02/11/94	11.56	--	--	--	--	4.760	--	--	--	--	--	--	--	--
02/18/94	11.56	--	--	--	--	4.760	--	--	--	--	--	--	--	--
02/25/94	11.56	--	--	--	--	4.760	--	--	--	--	--	--	--	--
03/04/94	11.56	--	--	--	--	4.760	--	--	--	--	--	--	--	--
03/11/94	11.56	--	--	--	--	4.760	--	--	--	--	--	--	--	--
03/16/94	11.56	--	--	--	--	4.760	--	--	--	--	--	--	--	--
03/25/94	11.56	--	--	--	--	4.760	--	--	--	--	--	--	--	--
04/01/94	11.56	--	--	--	--	4.760	--	--	--	--	--	--	--	--
08/18/94	11.56	--	--	--	--	4.760	--	--	--	--	--	--	--	--
11/30/94	11.56	--	--	2.000	6.760	--	--	--	--	--	--	--	--	--
02/15/95	11.56	--	4.79	--	6.760	--	--	--	--	--	--	--	--	--
05/01/95	11.56	--	--	--	6.760	--	--	--	--	--	--	--	--	--
08/04/95	11.56	--	--	--	6.760	--	--	--	--	--	--	--	--	--
11/29/95	11.56	5.24	6.38	0.08	0.026	6.786	--	--	--	--	--	--	--	--

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### Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Volumetric Measurements are in gallons.

Analytical results are in parts per billion (ppb)

DATE	Well	Ground	Depth	SPH Thickness	Total	Notes	TPH- Gasoline	Benzene	Toluene	Ethyl-	Xylene	TOG	TPH- Diesel	MTBE
	Head Elev.	Water Elev.	To Water		SPH Removed			Benzene	Toluene	Ethyl- Benzene	Xylene	TOG	TPH- Diesel	MTBE
<b>A-1 (CONT'D)</b>														
02/08/96	11.56	7.03	4.57	0.05	--	6.790	--	--	--	--	--	--	--	--
05/08/96	11.56	6.29	5.49	0.28	--	6.790	--	--	--	--	--	--	--	--
08/23/96	11.56	5.31	6.43	0.22	--	6.790	--	--	--	--	--	--	--	--
12/12/96	11.56	6.37	5.53	0.42	0.053	6.843	--	--	--	--	--	--	--	--
02/10/97	11.56	7.25	4.45	0.17	0.079	6.922	--	--	--	--	--	--	--	--
05/01/97	11.56	6.11	5.51	0.08	0.053	6.975	--	--	--	--	--	--	--	--
08/05/97	11.56	5.68	5.96	0.10	0.066	7.041	--	--	--	--	--	--	--	--
10/28/97	11.56	5.56	6.05	0.06	0.026	7.067	--	--	--	--	--	--	--	--
02/04/98	11.56	8.39	3.20	0.04	0.026	7.093	--	--	--	--	--	--	--	--
06/03/98	11.56	7.02	4.56	0.03	0.021	7.114	--	--	--	--	--	--	--	--
07/29/98	11.56	7.15	4.44	0.04	0.040	7.154	--	--	--	--	--	--	--	--
11/30/98	11.56	6.23	5.61	0.35	0.012	7.166	--	--	--	--	--	--	--	--
02/24/99	11.56	7.63	4.41	0.60	0.066	7.232	--	--	--	--	--	--	--	--

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Volumetric Measurements are in gallons.

Analytical results are in parts per billion (ppb)

DATE	Well	Ground	Depth	SPH Thickness	Total	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	TOG	TPH-Diesel	MTBE
	Head Elev.	Water Elev.	To Water		SPH Removed									
<b>A-2</b>														
09/20/91	8.00	0.27	7.73	0.00	--	--	--	8100	860	14	110	53	--	5100
10/09/91	8.00	1.39	6.61	0.00	--	--	--	--	--	--	--	--	--	--
10/17/91	8.00	1.34	6.66	0.00	--	--	--	--	--	--	--	--	--	--
10/23/91	8.00	1.29	6.80	0.09	--	--	--	--	--	--	--	--	--	--
11/01/91	8.00	1.45	6.63	0.15	--	--	--	--	--	--	--	--	--	--
11/07/91	8.00	1.45	6.64	0.21	--	--	--	--	--	--	--	--	--	--
11/15/91	8.00	1.38	6.81	0.19	--	--	--	--	--	--	--	--	--	--
11/21/91	8.00	1.31	6.93	0.24	--	--	--	--	--	--	--	--	--	--
12/12/91	8.00	1.24	6.97	0.15	--	--	--	--	--	--	--	--	--	--
12/30/91	8.00	1.70	6.54	0.24	--	--	--	--	--	--	--	--	--	--
01/13/92	8.00	2.16	5.92	0.08	--	--	--	--	--	--	--	--	--	--
01/22/92	8.00	2.00	6.01	0.10	--	--	--	--	--	--	--	--	--	--
02/12/92	8.00	2.20	6.06	0.26	--	--	--	--	--	--	--	--	--	--
03/09/92	8.00	3.11	4.93	0.04	--	--	--	--	--	--	--	--	--	--
04/10/92	8.00	2.80	5.20	<0.01	--	--	--	--	--	--	--	--	--	--
05/18/92	8.00	2.36	5.66	0.02	--	--	--	--	--	--	--	--	--	--
01/06/93	8.00	--	--	--	--	--	--	--	--	--	--	--	--	--
02/03/93	8.00	3.20	4.98	0.22	--	--	--	--	--	--	--	--	--	--
04/23/93	11.46	6.24	5.36	0.18	--	--	--	--	--	--	--	--	--	--
06/11/93	11.46	--	--	0.13	1.000	--	--	--	--	--	--	--	--	--
06/15/93	11.46	--	--	0.13	1.130	--	--	--	--	--	--	--	--	--
06/18/93	11.46	--	--	0.26	1.390	--	--	--	--	--	--	--	--	--
06/22/93	11.46	--	--	0.50	1.890	--	--	--	--	--	--	--	--	--
06/29/93	11.46	--	--	--	1.890	--	--	--	--	--	--	--	--	--
07/09/93	11.46	--	--	--	1.890	--	--	--	--	--	--	--	--	--
07/15/93	11.46	--	--	--	1.890	--	--	--	--	--	--	--	--	--
07/19/93	11.46	5.53	6.79	1.07	--	1.890	--	--	--	--	--	--	--	--
07/20/93	11.46	--	--	--	--	1.890	--	--	--	--	--	--	--	--
07/27/93	11.46	--	--	--	--	1.890	--	--	--	--	--	--	--	--
08/06/93	11.46	--	--	--	--	1.890	--	--	--	--	--	--	--	--
08/10/93	11.46	--	--	--	--	1.890	--	--	--	--	--	--	--	--
08/16/93	11.46	--	--	--	--	1.890	--	--	--	--	--	--	--	--

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## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Volumetric Measurements are in gallons.

Analytical results are in parts per billion (ppb)

DATE	Well	Ground	Depth	SPH Thickness	Total	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	TOG	TPH-Diesel	MTBE
	Head Elev.	Water Elev.	To Water		SPH Removed			SPH Removed						
<b>A-2 (CONT'D)</b>														
09/16/93	11.46	--	--	--	1.890	--	--	--	--	--	--	--	--	--
09/24/93	11.46	--	--	--	1.890	--	--	--	--	--	--	--	--	--
10/01/93	11.46	--	--	--	1.890	--	--	--	--	--	--	--	--	--
10/07/93	11.46	--	--	--	1.890	--	--	--	--	--	--	--	--	--
10/13/93	11.46	--	--	--	1.890	--	--	--	--	--	--	--	--	--
10/19/93	11.46	6.23	6.36	1.41	1.890	--	--	--	--	--	--	--	--	--
10/20/93	11.46	--	--	--	1.890	--	--	--	--	--	--	--	--	--
10/28/93	11.46	--	--	--	1.890	--	--	--	--	--	--	--	--	--
11/12/93	11.46	--	--	--	1.890	--	--	--	--	--	--	--	--	--
11/19/93	11.46	--	--	--	1.890	--	--	--	--	--	--	--	--	--
11/30/93	11.46	--	--	--	1.890	--	--	--	--	--	--	--	--	--
12/10/93	11.46	--	--	--	1.890	--	--	--	--	--	--	--	--	--
12/16/93	11.46	--	--	--	1.890	--	--	--	--	--	--	--	--	--
12/23/93	11.46	--	--	--	1.890	--	--	--	--	--	--	--	--	--
12/29/93	11.46	--	--	--	1.890	--	--	--	--	--	--	--	--	--
01/03/94	11.46	--	--	--	1.890	--	--	--	--	--	--	--	--	--
01/17/94	11.46	--	--	--	1.890	--	--	--	--	--	--	--	--	--
01/26/94	11.46	--	--	--	1.890	--	--	--	--	--	--	--	--	--
02/07/94	11.46	--	--	--	1.890	--	--	--	--	--	--	--	--	--
02/11/94	11.46	--	--	--	1.890	--	--	--	--	--	--	--	--	--
02/18/94	11.46	--	--	--	1.890	--	--	--	--	--	--	--	--	--
02/25/94	11.46	--	--	--	1.890	--	--	--	--	--	--	--	--	--
03/04/94	11.46	--	--	--	1.890	--	--	--	--	--	--	--	--	--
03/11/94	11.46	--	--	--	1.890	--	--	--	--	--	--	--	--	--
03/16/94	11.46	--	--	--	1.890	--	--	--	--	--	--	--	--	--
03/25/94	11.46	--	--	--	1.890	--	--	--	--	--	--	--	--	--
04/01/94	11.46	--	--	--	1.890	Destroyed	--	--	--	--	--	--	--	--

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.							Volumetric Measurements are in gallons.				Analytical results are in parts per billion (ppb)						
DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	SPH Thickness	SPH Removed	Total SPH Removed	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	TOG	TPH-Diesel	MTBE		
<b>B-1</b>																	
04/23/93	12.12	6.19	5.93	--	--	--		13,000	4900	22	250	47	--	8300	--		
07/19/93	12.12	5.46	6.66	--	--	--		3300	1200	16	24	<30	--	1600	--		
10/19/93	12.12	5.04	7.08	--	--	--		2300	730	18	14	31	--	550	--		
01/17/94	12.12	5.39	6.73	--	--	--		22,000	6500	170	210	430	--	<50	--		
08/18/94	12.12	5.27	6.85	--	--	--	Inaccessible	--	--	--	--	--	--	--	--		
11/30/94	12.12	6.11	6.01	--	--	--		1500	250	17	7.5	19	<5.0*	3200**	--		
02/15/95	12.12	6.75	5.37	--	--	--		1000	160	<2.0	4.6	2.6	--	1300**	--		
05/01/95	12.12	7.00	5.12	--	--	--		140	20	0.52	2.0	0.67	--	2600***	--		
08/04/95	12.12	6.62	5.50	--	--	--		6700	1400	<20	<20	<20	--	4900***	--		
11/29/95	12.12	6.27	5.85	--	--	--		9200	2200	<25	<25	25	--	5000***	8300		
02/08/96	12.12	8.12	4.00	--	--	--		1500	190	<5.0	<5.0	<5.0	--	1300***	2300		
05/08/96	12.12	7.32	4.80	--	--	--		3700	650	<10	24	16	--	2900***	2300		
08/23/96	12.12	6.58	5.54	--	--	--		3200	500	<20	<20	<20	--	2600	4900		
12/12/96	12.12	7.22	4.90	--	--	--		2500	380	<25	<25	25	--	3400+	8600		
02/10/97	12.12	7.53	4.59	--	--	--		2200	270	11	8.8	13	--	2100***	3400		
05/01/97	12.12	6.46	5.66	--	--	--		1200	70	5.8	<5.0	7.2	--	1300***	2000		
08/05/97	12.12	5.68	6.44	--	--	--		<1000	86	<10	<10	<10	--	1500***	3800		
10/28/97	12.12	5.69	6.43	--	--	--		1400	73	6.5	6.8	9.0	--	2000***	2900		
02/04/98	12.12	9.11	3.01	--	--	--		1500	4.5	1.7	<0.5	2.2	--	1200***	1900		
02/12/98	12.12	8.33	3.79	--	--	--		--	--	--	--	--	--	--	--		
06/03/98	12.12	7.23	4.89	--	--	--		<50	<0.5	<0.5	<0.5	<0.5	--	970***	1400		
07/29/98	12.12	6.37	5.75	--	--	--	++	850	27	<0.5	4.0	2.9	--	1100***	770		
07/29/98	12.12	6.37	5.75	--	--	--	Confirmation run	--	--	--	--	--	--	--	1200		
11/30/98	12.12	6.44	5.68	--	--	--		543	<5.0	<5.0	<5.0	<5.0	--	1490	2220		
02/24/99	12.12	7.83	4.29	--	--	--		390	1.6	0.57	2.8	2.5	--	1400***	2600		

\* Analytical values are in parts per million (ppm).

\*\* Chromatogram pattern indicates a non-diesel mix.

\*\*\* Chromatogram pattern indicates an unidentified hydrocarbon.

+ Chromatogram pattern indicates an unidentified hydrocarbon and weathered diesel.

++ See Table of Additional Analyses.

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Volumetric Measurements are in gallons.

Analytical results are in parts per billion (ppb)

DATE	Well	Ground	Depth	Total				TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	TOG	TPH-Diesel	MTBE
	Head	Water	To Water	SPH	SPH	Removed	Notes		Gasoline						
<b>B-3</b>															
09/20/91	8.01	1.08	6.94	0.01	--	--	--	--	--	--	--	--	--	--	
10/09/91	8.01	1.66	6.35	--	--	--	--	--	--	--	--	--	--	--	
10/17/91	8.01	1.57	6.44	--	--	--	--	--	--	--	--	--	--	--	
10/23/91	8.01	1.53	6.84	--	--	--	--	--	--	--	--	--	--	--	
11/01/91	8.01	1.70	6.31	--	--	--	--	--	--	--	--	--	--	--	
11/07/91	8.01	1.69	6.32	--	--	--	--	--	--	--	--	--	--	--	
11/15/91	8.01	1.62	6.39	--	--	--	--	--	--	--	--	--	--	--	
11/21/91	8.01	1.57	6.44	--	--	--	--	--	--	--	--	--	--	--	
12/12/91	8.01	1.19	6.82	<0.01	--	--	--	--	--	--	--	--	--	--	
12/30/91	8.01	1.64	6.37	--	--	--	--	--	--	--	--	--	--	--	
01/13/92	8.01	2.07	5.94	--	--	--	--	--	--	--	--	--	--	--	
01/22/92	8.01	2.02	5.99	--	--	--	--	--	--	--	--	--	--	--	
02/12/92	8.01	2.19	5.82	<0.01	--	--	--	--	--	--	--	--	--	--	
03/09/92	8.01	2.91	5.10	--	--	--	--	--	--	--	--	--	--	--	
04/10/92	8.01	2.65	5.36	--	--	--	--	--	--	--	--	--	--	--	
05/18/92	8.01	2.29	5.72	--	--	--	--	6200	550	58	13	51	<5000	250	
01/06/93	8.01	2.51	5.50	--	--	--	Sheen	5400	490	54	51	82	--	10,000	
02/03/93	8.01	--	--	--	--	--	--	--	--	--	--	--	--	--	
04/23/93	11.42	6.10	5.32	--	--	--	--	18,000	540	69	47	120	--	6400	
07/29/93	11.42	5.48	5.94	--	--	--	--	40,000	780	69	49	150	--	4000	
10/19/93	11.42	5.10	6.32	--	--	--	--	20,000	520	37	43	100	--	1500	
01/17/94	11.42	4.47	6.95	--	--	--	Destroyed	3900	430	32	29	82	--	<50	

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Volumetric Measurements are in gallons.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	SPH Thickness	SPH Removed	Total SPH Removed	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	TOG	TPH-Diesel	MTBE
<b>B-4</b>															
09/20/91	8.04	1.22	6.82	0.01	--	--	--	19,000	710	160	650	2000	--	1400	--
10/09/91	8.04	1.41	6.63	--	--	--	--	--	--	--	--	--	--	--	--
10/17/91	8.04	1.20	6.84	--	--	--	--	--	--	--	--	--	--	--	--
10/23/91	8.04	1.17	6.87	--	--	--	--	--	--	--	--	--	--	--	--
11/01/91	8.04	1.34	6.70	--	--	--	--	--	--	--	--	--	--	--	--
11/07/91	8.04	1.31	6.73	--	--	--	--	--	--	--	--	--	--	--	--
11/15/91	8.04	1.21	6.83	--	--	--	--	--	--	--	--	--	--	--	--
11/21/91	8.04	1.20	6.84	--	--	--	--	--	--	--	--	--	--	--	--
12/12/91	8.04	1.17	6.87	<0.01	--	--	--	--	--	--	--	--	--	--	--
12/30/91	8.04	1.58	6.46	--	--	--	--	--	--	--	--	--	--	--	--
01/13/92	8.04	2.13	5.91	--	--	--	--	--	--	--	--	--	--	--	--
01/22/92	8.04	2.09	5.95	--	--	--	--	--	--	--	--	--	--	--	--
02/12/92	8.04	2.26	5.78	<0.01	--	--	--	15,000	920	75	520	940	--	860	--
03/09/92	8.04	2.95	5.09	--	--	--	--	--	--	--	--	--	--	--	--
04/10/92	8.04	2.65	5.39	--	--	--	--	--	--	--	--	--	--	--	--
05/18/92	8.04	2.45	5.59	--	--	--	--	19,000	2000	97	560	1200 <5000	<50	--	--
01/06/93	8.04	2.54	5.50	--	--	--	Sheen	19,000	2000	89	490	740	--	2700	--
02/03/93	8.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/23/93	11.46	6.07	5.39	--	--	--	--	5700	2400	75	380	580	--	2300	--
07/19/93	11.46	5.33	6.13	--	--	--	--	19,000	2400	140	440	620	--	2400	--
10/19/93	11.46	4.95	6.51	--	--	--	--	13,000	1200	84	290	530	--	2100	--
01/17/94	11.46	5.28	6.18	--	--	--	Destroyed	11,000	1900	63	170	290	--	<50	--

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Volumetric Measurements are in gallons.

Analytical results are in parts per billion (ppb)

DATE	Well	Ground	Depth	SPH Thickness	SPH Removed	Total SPH Removed	Notes	TPH- Gasoline	Benzene	Toluene	Ethyl- Benzene	Xylene	TOG	TPH- Diesel	MTBE
	Head Elev.	Water Elev.	To Water												
<b>B-5</b>															
09/20/91	7.73	2.20	5.53	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50	--
10/09/91	7.73	2.42	5.31	--	--	--	--	--	--	--	--	--	--	--	--
10/17/91	7.73	2.09	5.64	--	--	--	--	--	--	--	--	--	--	--	--
10/23/91	7.73	2.05	5.68	--	--	--	--	--	--	--	--	--	--	--	--
11/01/91	7.73	2.24	5.49	--	--	--	--	--	--	--	--	--	--	--	--
11/07/91	7.73	2.19	5.54	--	--	--	--	--	--	--	--	--	--	--	--
11/15/91	7.73	2.10	5.63	--	--	--	--	--	--	--	--	--	--	--	--
11/21/91	7.73	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/12/91	7.73	2.05	5.68	--	--	--	--	--	--	--	--	--	--	--	--
12/30/91	7.73	2.54	5.19	--	--	--	--	--	--	--	--	--	--	--	--
01/13/92	7.73	3.07	4.65	--	--	--	--	--	--	--	--	--	--	--	--
01/22/92	7.73	3.03	4.70	--	--	--	--	--	--	--	--	--	--	--	--
02/12/92	7.73	3.38	4.45	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50	--
03/09/92	7.73	3.68	4.05	--	--	--	--	--	--	--	--	--	--	--	--
04/10/92	7.73	3.30	4.43	--	--	--	--	--	--	--	--	--	--	--	--
05/18/92	7.73	3.94	3.79	--	--	--	--	390	39	1.9	11	24	<5000	--	--
01/06/93	7.73	3.39	4.44	--	--	--	Sheen	<50	<0.5	<0.5	<0.5	<0.5	--	<50	--
02/03/93	7.73	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/23/93	10.18	5.86	4.32	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	<50	--
07/19/93	10.18	5.15	5.03	--	--	--	--	54	<0.5	0.7	<0.5	<1.5	--	<50	--
10/19/93	10.18	5.08	5.10	--	--	--	--	<50	2.0	4.1	0.6	3.5	--	<50	--
01/07/94	10.18	5.32	4.86	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50	--
08/18/94	10.18	5.04	5.14	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50	--
11/30/94	10.18	5.73	4.45	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	140*	--
02/15/95	10.18	6.03	4.15	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	170*	--
05/01/95	10.18	5.75	4.43	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	190**	--
08/04/95	10.18	5.22	4.96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	250**	--
11/29/95	10.18	4.97	5.21	--	--	--	--	140	1.5	<0.5	1.1	<0.5	--	330**	800
02/08/96	10.18	6.38	3.80	--	--	--	--	<200	2.1	<2.0	<2.0	<2.0	--	250**	1100
05/08/96	10.18	5.78	4.40	--	--	--	--	<500	<5.0	<5.0	<5.0	<5.0	--	350**	1400

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\* Chromagram pattern indicates a non-diesel mix.

\*\* Chromatogram pattern indicates an unidentified hydrocarbon.

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Volumetric Measurements are in gallons.

Analytical results are in parts per billion (ppb)

DATE	Well	Ground	Depth	Total			Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	TOG	TPH-Diesel	MTBE
	Head	Water	To Water	SPH	SPH	Thickness			Removed	SPH Removed	<10	<10	<10		
<b>B-5 (CONT'D)</b>															
08/23/96	10.18	5.19	4.99	--	--	--	--	250	6.4	2.1	2.1	4.3	--	990	9300
12/12/96	10.18	5.90	4.28	--	--	--	--	<1000	<10	<10	<10	<10	--	430**	6700
02/10/97	10.18	6.55	3.63	--	--	--	--	<500	<5.0	<5.0	<5.0	<5.0	--	340**	930
05/01/97	10.18	5.87	4.31	--	--	--	--	<500	<5.0	<5.0	<5.0	<5.0	--	290**	1900
08/05/97	10.18	5.29	4.89	--	--	--	--	<1000	<10	<10	<10	<10	--	710**	6800
10/28/97	10.18	5.18	5.00	--	--	--	--	<500	<5.0	<5.0	<5.0	<5.0	--	880**	7000
02/04/98	10.18	7.65	2.53	--	--	--	--	<50	0.51	<0.5	<0.5	<0.5	--	290**	2100
06/03/98	10.18	6.33	3.85	--	--	--	--	220	2.0	15	2.8	20	--	630**	450
07/29/98	10.18	5.63	4.55	--	--	--	*	<50	1.6	<0.5	<0.5	1.6	--	1100**	4600
07/29/98	10.18	5.63	4.55	--	--	--	Confirmation run	--	--	--	--	--	--	--	6200
11/30/98	10.18	5.81	4.37	--	--	--	--	<50	<0.5	1.91	<0.5	1.09	--	371	202
02/24/99	10.18	6.79	3.39	--	--	--	--	<50	<0.5	<0.5	0.69	3.1	--	512**	25

\* See Table of Additional Analyses.

\*\* Chromatogram pattern indicates an unidentified hydrocarbon.

### Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Volumetric Measurements are in gallons.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	SPH Thickness	SPH Removed	Total SPH Removed	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	TOG	TPH-Diesel	MTBE
<b>B-6</b>															
09/20/91	8.55	1.70	6.85	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50	--
10/09/91	8.55	1.72	6.83	--	--	--	--	--	--	--	--	--	--	--	--
10/17/91	8.55	1.65	6.90	--	--	--	--	--	--	--	--	--	--	--	--
10/23/91	8.55	1.62	6.93	--	--	--	--	--	--	--	--	--	--	--	--
11/01/91	8.55	1.77	6.78	--	--	--	--	--	--	--	--	--	--	--	--
11/07/91	8.55	1.74	6.81	--	--	--	--	--	--	--	--	--	--	--	--
11/15/91	8.55	1.67	6.88	--	--	--	--	--	--	--	--	--	--	--	--
11/21/91	8.55	1.60	6.95	--	--	--	--	--	--	--	--	--	--	--	--
12/12/91	8.55	1.41	7.14	--	--	--	--	--	--	--	--	--	--	--	--
12/30/91	8.55	2.05	6.50	--	--	--	--	--	--	--	--	--	--	--	--
01/13/92	8.55	2.36	6.19	--	--	--	--	--	--	--	--	--	--	--	--
01/22/92	8.55	2.28	6.27	--	--	--	--	--	--	--	--	--	--	--	--
02/12/92	8.55	2.43	6.12	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50	--
03/09/92	8.55	3.27	5.28	--	--	--	--	--	--	--	--	--	--	--	--
04/10/92	8.55	3.07	5.48	--	--	--	--	--	--	--	--	--	--	--	--
05/18/92	8.55	2.65	5.90	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5000	<50	--
01/06/93	8.55	2.76	5.79	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50	--
02/03/93	8.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/23/93	11.97	6.70	5.27	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	<50	--
07/19/93	11.97	5.06	6.91	--	--	--	--	74	<0.5	<0.5	<0.5	<1.5	--	<50	--
10/19/93	11.97	5.49	6.48	--	--	--	--	<50	<0.5	0.5	<0.5	2.2	--	<50	--
01/07/94	11.97	5.79	6.18	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50	--
08/18/94	11.97	5.77	6.20	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50	--
11/30/94	11.97	6.52	5.45	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	230*	--
02/15/95	11.97	7.27	4.70	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	130*	--
05/01/95	11.97	6.94	5.03	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	97**	--
08/04/95	11.97	6.15	5.82	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	350**	--
11/29/95	11.97	5.97	6.00	--	--	--	--	--	--	--	--	--	--	200**	--
02/08/96	11.97	7.27	4.70	--	--	--	--	--	--	--	--	--	--	210**	--
05/08/96	11.97	6.74	5.23	--	--	--	--	--	--	--	--	--	--	250**	--

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\* Chromatogram pattern indicates a non-diesel mix.

\*\* Chromatogram pattern indicates an unidentified hydrocarbon.

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Volumetric Measurements are in gallons.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	SPH Thickness	SPH Removed	Total SPH Removed	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	TOG	TPH-Diesel	MTBE
<b>B-6 (CONT'D)</b>															
08/23/96	11.97	5.92	6.05	--	--	--	--	--	--	--	--	--	--	310**	--
12/12/96	11.97	6.65	5.32	--	--	--	--	--	--	--	--	--	--	300**	--
02/10/97	11.97	7.60	4.37	--	--	--	--	--	--	--	--	--	--	130**	360
05/01/97	11.97	6.74	5.23	--	--	--	--	--	--	--	--	--	--	260**	2200
08/05/97	11.97	6.22	5.75	--	--	--	--	--	--	--	--	--	--	260**	1800
10/28/97	11.97	5.89	6.08	--	--	--	--	--	--	--	--	--	--	340**	1900
02/04/98	11.97	9.26	2.71	--	--	--	--	--	--	--	--	--	--	280**	1400
06/03/98	11.97	7.49	4.48	--	--	--	--	--	--	--	--	--	--	130**	1200
07/29/98	11.97	6.69	5.28	--	--	--	--	--	--	--	--	--	--	340**	2700
07/29/98	11.97	6.69	5.28	--	--	--	Confirmation run	--	--	--	--	--	--	--	3000
11/30/98	11.97	6.48	5.49	--	--	--	--	655	<5.0	<5.0	<5.0	<5.0	--	2740	2160
02/24/99	11.97	7.79	4.18	--	--	--	--	--	--	--	--	--	--	225**	1500

\*\* Chromatogram pattern indicates an unidentified hydrocarbon.

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Volumetric Measurements are in gallons.

Analytical results are in parts per billion (ppb)

DATE	Well	Ground	Depth	Total			Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	TOG	TPH-Diesel	MTBE
	Head	Water	To Water	SPH	Thickness	SPH Removed									
<b>B-7</b>															
04/23/93	10.54	6.02	4.52	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<50	--	--
07/19/93	10.54	5.50	5.04	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<50	<50	--
10/19/93	10.54	5.14	5.40	--	--	--	--	<50	3.1	0.5	<0.5	0.8	--	<50	--
01/07/94	10.54	5.35	5.19	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50	--
08/18/94	10.54	5.28	5.26	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50	--
11/30/94	10.54	5.96	4.58	--	--	--	--	<50	<0.5	<0.5	<0.5	1.1	--	<50	--
02/15/95	10.54	6.32	4.22	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50	--
05/01/95	10.54	6.04	4.50	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	53**	--
08/04/95	10.54	5.56	4.98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50	--
02/12/98	10.54	7.49	3.05	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50	--
06/03/98	10.54	6.59	3.95	--	--	--	Sampled biannually	--	--	--	--	--	--	--	--
07/29/98	10.54	5.99	4.55	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5	--
11/30/98	10.54	5.56	4.98	--	--	--	--	--	--	--	--	--	--	--	--
02/24/99	10.54	7.24	3.30	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5	--
<b>B-8</b>															
04/23/93	11.99	6.63	5.36	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<50	--	--
07/19/93	11.99	5.77	6.22	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<50	<50	--
10/19/93	11.99	--	--	--	--	--	Dry	--	--	--	--	--	--	--	--
01/07/94	11.99	5.69	6.30	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50	--
08/18/94	11.99	5.56	6.43	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50	--
11/30/94	11.99	6.53	5.46	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	120*	--
02/15/95	11.99	7.27	4.72	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	120*	--
05/01/95	11.99	6.99	5.00	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	51**	--
08/04/95	11.99	6.07	5.92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50	--
11/30/98	11.99	6.45	5.54	--	--	--	--	--	--	--	--	--	--	--	--

\* Chromatogram pattern indicates a non-diesel mix.

\*\* Chromatogram pattern indicates an unidentified hydrocarbon.

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Volumetric Measurements are in gallons.

Analytical results are in parts per billion (ppb)

DATE	Well	Ground	Depth	Total	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	TOG	TPH-Diesel	MTBE
	Head	Water	To Water	SPH Thickness									
<b>B-9</b>													
04/23/93	10.70	6.14	4.56	--	--	<50	<0.5	<0.5	<0.5	<1.5	<50	--	--
07/19/93	10.70	5.25	5.45	--	--	<50	<0.5	<0.5	<0.5	<1.5	<50	<50	--
10/19/93	10.70	4.81	5.89	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50	--
01/07/94	10.70	5.29	5.41	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50	--
08/18/94	10.70	5.15	5.55	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50	--
11/30/94	10.70	6.35	4.35	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50	--
02/15/95	10.70	7.05	3.65	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	60*	--
05/01/95	10.70	6.41	4.29	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50	--
08/04/95	10.70	5.50	5.20	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<50	--

NO LONGER MONITORED OR SAMPLED

## B-10

11/29/95	11.42	4.91	6.51	--	--	1700	95	<2.5	69	170	--	900*	22
02/08/96	11.42	6.87	4.55	--	--	230	31	<0.5	7.2	6.2	--	650*	10
05/08/96	11.42	5.87	5.55	--	--	260	61	0.59	37	23	--	570*	20
08/23/96	11.42	5.23	6.19	--	--	320	34	<0.5	29	15	--	700*	8.3
12/12/96	11.42	5.59	5.83	--	--	1600	94	<2.5	110	27	--	990*	<12
02/10/97	11.42	6.84	4.58	--	--	2100	230	5.6	130	83	--	530*	<12
05/01/97	11.42	5.85	5.57	--	--	2300	110	<2.5	140	49	--	770*	<12
08/05/97	11.42	5.12	6.30	--	--	650	33	1.1	70	16	--	620*	3.2
10/28/97	11.42	5.24	6.18	--	--	740	25	1.6	53	14	--	310*	6.7
02/04/98	11.42	8.53	2.89	--	--	950	23	4.5	<0.5	1.9	--	250*	<2.5
06/03/98	11.42	6.62	4.80	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	490*	<2.5
07/29/98	11.42	5.77	5.65	--	--	290	3.9	<0.5	8.5	1.4	--	390*	<2.5
11/30/98	11.42	5.80	5.62	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	437	7.11
02/24/99	11.42	7.19	4.23	--	--	160	35	0.55	0.64	0.64	--	259*	9.2

\* Chromatogram pattern indicates an unidentified hydrocarbon.

\*\* See Table of Additional Analyses.

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Volumetric Measurements are in gallons.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	SPH Thickness	SPH Removed	Total SPH Removed	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	TOG	TPH-Diesel	MTBE
<b>B-11</b>															
11/29/95	11.98	6.08	5.90	--	--	--		2800	38	<10	26	48	--	1400*	21,000
02/08/96	11.98	7.54	4.44	--	--	--		<5000	<50	<50	<50	<50	--	1100*	38,000
05/08/96	11.98	6.98	5.00	--	--	--		4100	110	<10	31	25	--	1300*	17,000
08/23/96	11.98	6.37	5.61	--	--	--		3400	160	12	41	13	--	820*	4000
12/12/96	11.98	6.85	5.13	--	--	--		3700	120	12	<5.0	30	--	1300*	2200
02/10/97	11.98	7.91	4.07	--	--	--		2300	56	17	<5.0	20	--	810*	4700
05/01/97	11.98	6.95	5.03	--	--	--		<5000	<50	<50	<50	<50	--	820*	21,000
08/05/97	11.98	6.38	5.60	--	--	--		3500	42	<10	<10	<10	--	900*	4100
10/28/97	11.98	6.30	5.68	--	--	--		3000	39	6.2	8.0	13	--	1300*	2300
02/04/98	11.98	9.39	2.59	--	--	--		1300	3.2	1.4	<0.5	5.0	--	930*	46,000
06/03/98	11.98	7.53	4.45	--	--	--		860	3.7	1.4	0.84	3.0	--	740*	34,000
07/29/98	11.98	6.80	5.18	--	--	--	Confirmation run	1300	6.9	2.5	3.8	2.0	--	1400*	50,000
07/29/98	11.98	6.80	5.18	--	--	--		--	--	--	--	--	--	--	41,000
11/30/98	11.98	6.91	5.07	--	--	--		<1000	<10	<10	<10	<10	--	1020	5370
02/24/99	11.98	7.79	4.19	--	--	--		690	4.7	<0.5	2.7	3.1	--	2290*	67,000
<b>B-12</b>															
11/29/95	11.16	5.15	6.01	--	--	--		1100	10	<10	<10	<10	--	1800*	37,000
02/08/96	11.16	6.56	4.60	--	--	--		<20,000	<200	<200	<200	<200	--	1800*	88,000
05/08/96	11.16	6.08	5.08	--	--	--		<25,000	<250	<250	<250	<250	--	1800*	88,000
08/23/96	11.16	5.51	5.65	--	--	--		630	16	<5.0	<5.0	<5.0	--	1500*	420
12/12/96	11.16	6.05	5.11	--	--	--		<25,000	<250	<250	<250	<250	--	1200*	54,000
02/10/97	11.16	7.05	4.11	--	--	--		<20,000	<200	<200	<200	<200	--	1200*	65,000
02/10/97	11.16	7.05	4.11	--	--	--	EPA 8240	--	<500	<500	<500	<500	--	--	--
05/01/97	11.16	6.17	4.99	--	--	--		<12,500	<125	<125	<125	<125	--	1100*	64,000
08/05/97	11.16	5.55	5.61	--	--	--		<10,000	<100	<100	<100	<100	--	1100*	46,000
10/28/97	11.16	5.40	5.76	--	--	--		1400	39	<5.0	7.2	6.0	--	1100*	29,000
02/04/98	11.16	8.53	2.63	--	--	--		920	6.9	1.1	<0.5	2.8	--	4800*	59,000
06/03/98	11.16	6.71	4.45	--	--	--		590	9.4	<0.5	0.93	<0.5	--	2000*	15,000
07/29/98	11.16	5.91	5.25	--	--	--		820	5.6	2.0	3.3	1.2	--	2200*	28,000
07/29/98	11.16	5.91	5.25	--	--	--	Confirmation run	--	--	--	--	--	--	--	33,000
11/30/98	11.16	6.03	5.13	--	--	--		2110	<10	<10	<10	<10	--	1060	5330
02/24/99	11.16	7.16	4.00	--	--	--		410	0.64	<0.5	2.2	2.3	--	2680*	15,000

\* Chromatogram pattern indicates an unidentified hydrocarbon.

\*\* See Table of Additional Analyses.

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Volumetric Measurements are in gallons.

Analytical results are in parts per billion (ppb)

DATE	Well	Ground	Depth	Total			Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	TOG	TPH-Diesel	MTBE
	Head	Water	To Water	SPH	SPH Removed	Thickness									
<b>B-13</b>															
11/29/95	11.17	5.26	5.91	--	--	--	--	1800	19	<5.0	5.5	<5.0	--	3400*	7400
02/08/96	11.17	6.72	4.45	--	--	--	--	910	12	1.3	2.0	1.9	--	450*	77
05/08/96	11.17	6.20	4.97	--	--	--	--	140	1.9	<0.5	0.88	2.0	--	560*	98
08/23/96	11.17	5.54	5.63	--	--	--	--	1300	<10	<10	<10	<10	--	1300*	450
12/12/96	11.17	5.91	5.26	--	--	--	--	2600	29	5.4	9.40	6.3	--	1300*	230
02/10/97	11.17	7.05	4.12	--	--	--	--	670	<0.5	6.7	2.6	5.6	--	290*	28
05/01/97	11.17	6.17	5.00	--	--	--	--	920	8.5	4.6	2.1	6.1	--	480*	530
08/05/97	11.17	5.52	5.65	--	--	--	--	1900	23	<5.0	<5.0	<5.0	--	1300*	860
10/28/97	11.17	5.49	5.68	--	--	--	--	2400	33	14	8.4	10	--	2200*	2100
02/04/98	11.17	8.48	2.69	--	--	--	--	110	<0.5	<0.5	<0.5	<0.5	--	260*	260
06/03/98	11.17	6.79	4.38	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	480*	400
07/29/98	11.17	6.12	5.05	--	--	--	--	350	5.0	<0.5	0.67	1.2	--	830*	730
07/29/98	11.17	6.12	5.05	--	--	--	Confirmation run	--	--	--	--	--	--	--	980
11/30/98	11.17	6.16	5.01	--	--	--	--	168	0.797	<0.5	<0.5	<0.5	--	741	114
02/24/99	11.17	7.14	4.03	--	--	--	--	69	<0.5	<0.5	<0.5	<0.5	--	670*	530

\* Chromatogram pattern indicates an unidentified hydrocarbon.

\*\* See Table of Additional Analyses.

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Volumetric Measurements are in gallons.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	SPH Thickness	SPH Removed	Total SPH Removed	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	TOG	TPH-Diesel	MTBE
<b>TRIP BLANK</b>															
01/06/93	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
04/23/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/19/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/19/93	--	--	--	--	--	--	--	<50	<0.5	0.5	<0.5	<0.5	--	--	--
01/17/94	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
08/18/94	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
11/30/94	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
02/15/95	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
05/01/95	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
08/04/95	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
11/29/95	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	<2.5
02/08/96	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
05/08/96	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	<2.5
08/23/96	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
12/12/96	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	<2.5
02/10/97	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	<2.5
05/01/97	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	<2.5
08/05/97	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	<2.5
10/28/97	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	<2.5
02/04/98	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	<2.5
02/12/98	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	<2.5
06/03/98	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	<2.5
07/29/98	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	<2.5
11/30/98	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	<2.0
02/24/99	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	<2.5

\* See Table of Additional Analyses.

## Cumulative Table of Well Data and Analytical Results

### **ADDITIONAL ANALYSES**

Analytical values are in parts per billion (ppb)

DATE	Notes	Alkalinity	Ferrous Iron	Nitrate as Nitrate	Sulfate
<b>B-1</b>					
07/29/98	--	930,000	2000	13,000	280,000
<b>B-5</b>					
07/29/98	--	280,000	1100	<1000	7000
<b>B-10</b>					
07/29/98	--	630,000	740	34,000	16,000
<b>B-11</b>					
07/29/98	--	460,000	1100	33,000	18,000
<b>B-12</b>					
07/29/98	--	700,000	450	<1000	27,000
<b>B-13</b>					
07/29/98	--	290,000	240	5600	17,000

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  
 SPH = Separate-Phase Hydrocarbons  
 TOG = Total Oil and Grease  
 MTBE = Methyl t-Butyl Ether

# **Analytical Appendix**



# Sequoia Analytical

680 Chesapeake Drive  
404 N. Wiget Lane  
819 Striker Avenue, Suite 8  
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063  
Walnut Creek, CA 94598  
Sacramento, CA 95834  
Petaluma, CA 94954

(650) 364-9600  
(925) 988-9600  
(916) 921-9600  
(707) 792-1865

FAX (650) 364-9233  
FAX (925) 988-9673  
FAX (916) 921-0100  
FAX (707) 792-0342

March 11, 1999

Mei Mei Shin  
Sequoia - RC (Subbed In)  
680 Chesapeake Dr.  
Redwood City, CA 94063

RE: Mei Mei Shin/P903155

Dear Mei Mei Shin

Enclosed are the results of analyses for sample(s) received by the laboratory on March 2, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Matt Sakai  
Project Manager

CA ELAP Certificate Number 2245



**Sequoia  
Analytical**

680 Chesapeake Drive  
404 N. Wiget Lane  
819 Striker Avenue, Suite 8  
1455 McDowell Blvd, North, Ste. D  
1551 Industrial Road

Redwood City, CA 94063      (650) 364-9600      FAX (650) 364-9233  
Walnut Creek, CA 94598      (925) 988-9600      FAX (925) 988-9673  
Sacramento, CA 95834      (916) 921-9600      FAX (916) 921-0100  
Petaluma, CA 94954      (707) 792-1865      FAX (707) 792-0342  
San Carlos, CA 94070-4111      (650) 232-9600      FAX (650) 232-9612

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

Client Proj. ID: Chevron 9-0290/990224 R-2

Received: 02/25/99

Lab Proj. ID: 9902D68

Reported: 03/16/99

## LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 21 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

### TPGM2W Note:

Samples 9902D68-01,06 had high surrogate recovery, due to matrix effect.  
Samples 9902D68-01,06,07,08 were run twice per client's request, MTBE was reported from GCHP3 GCHP02 on 3/8/99 and 3/9/99.

### Diesel Note:

Diesel was analyzed by Sequoia Analytical -Petaluma.

**SEQUOIA ANALYTICAL**

Mei Mei Ship  
Project Manager



**Sequoia  
Analytical**

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Blaine Tech Services  
1680 Rogers Avenue  
San Jose, CA 95112

Attention: Christine Lillie

Client Proj. ID: Chevron 9-0290/990224 R-2  
Sample Descript: B-1  
Matrix: LIQUID  
Analysis Method: 8015Mod/8020  
Lab Number: 9902D68-01

Sampled: 02/24/99  
Received: 02/25/99  
Analyzed: 03/07/99  
Reported: 03/16/99

QC Batch Number: GC030799BTEX30A  
Instrument ID: GCHP30

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

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	390
Methyl t-Butyl Ether	250	2600
Benzene	0.50	1.6
Toluene	0.50	0.57
Ethyl Benzene	0.50	2.8
Xylenes (Total)	0.50	2.5
Chromatogram Pattern:		
Unidentified HC		C6-C12
Surrogates		
Trifluorotoluene	Control Limits % 70      130	% Recovery 141 Q

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

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Mei Mei Shin  
Project Manager

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Attention: Christine Lillie

Client Proj. ID: Chevron 9-0290/990224 R-2  
Sample Descript: B-5  
Matrix: LIQUID  
Analysis Method: 8015Mod/8020  
Lab Number: 9902D68-02

Sampled: 02/24/99  
Received: 02/25/99  
Analyzed: 03/08/99  
Reported: 03/16/99

QC Batch Number: GC030899BTEX02A  
Instrument ID: GCHP02

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

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
<b>Methyl t-Butyl Ether</b>	<b>2.5</b>	<b>25</b>
Benzene	0.50	N.D.
Toluene	0.50	N.D.
<b>Ethyl Benzene</b>	<b>0.50</b>	<b>0.69</b>
<b>Xylenes (Total)</b>	<b>0.50</b>	<b>3.1</b>
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70                  130	78

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

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San Jose, CA 95112

Attention: Christine Lillie

Client Proj. ID: Chevron 9-0290/990224 R-2  
Sample Descript: B-6  
Matrix: LIQUID  
Analysis Method: EPA 8020  
Lab Number: 9902D68-03

Sampled: 02/24/99  
Received: 02/25/99  
Analyzed: 03/07/99  
Reported: 03/16/99

QC Batch Number: GC030799BTEX30A  
Instrument ID: GCHP30

### Methyl t-Butyl Ether (MTBE)

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	..... 2.5 .....	1500
Surrogates	Control Limits %	% Recovery

Trifluorotoluene

70 130

93

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

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Client Proj. ID: Chevron 9-0290/990224 R-2  
Sample Descript: B-7  
Matrix: LIQUID  
Analysis Method: 8015Mod/8020  
Lab Number: 9902D68-04

Sampled: 02/24/99  
Received: 02/25/99  
Analyzed: 03/07/99  
Reported: 03/16/99

Attention: Christine Lillie  
QC Batch Number: GC030799BTEX30A  
Instrument ID: GCHP30

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

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
<b>Surrogates</b>		
Trifluorotoluene	Control Limits % 70      130	% Recovery 89

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

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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Chevron 9-0290/990224 R-2 Sample Descript: B-10 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9902D68-05	Sampled: 02/24/99 Received: 02/25/99  Analyzed: 03/07/99 Reported: 03/16/99
Attention: Christine Lillie		

QC Batch Number: GC030799BTEX30A  
Instrument ID: GCHP30

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

Analyte	Detection Limit ug/L	Sample Results ug/L	
TPPH as Gas	.....	50	160
Methyl t-Butyl Ether	.....	2.5	9.2
Benzene	.....	0.50	35
Toluene	.....	0.50	0.55
Ethyl Benzene	.....	0.50	0.64
Xylenes (Total)	.....	0.50	0.64
Chromatogram Pattern: Unidentified HC	.....	.....	C6-C12
Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	100

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

**SEQUOIA ANALYTICAL - ELAP #1210**

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Blaine Tech Services  
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San Jose, CA 95112

Attention: Christine Lillie

Client Proj. ID: Chevron 9-0290/990224 R-2  
Sample Descript: B-11  
Matrix: LIQUID  
Analysis Method: 8015Mod/8020  
Lab Number: 9902D68-06

Sampled: 02/24/99  
Received: 02/25/99  
Analyzed: 03/07/99  
Reported: 03/16/99

QC Batch Number: GC030799BTEX30A  
Instrument ID: GCHP30

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

Analyte	Detection Limit ug/L	Sample Results ug/L	
TPPH as Gas	50	.....	690
Methyl t-Butyl Ether	1300	.....	67000
Benzene	0.50	.....	4.7
Toluene	0.50	.....	N.D.
Ethyl Benzene	0.50	.....	2.7
Xylenes (Total)	0.50	.....	3.1
Chromatogram Pattern: Gas & Unidentified HC	.....	.....	C6-C12
<b>Surrogates</b>		<b>Control Limits %</b>	
Trifluorotoluene	70	130	% Recovery 189 Q

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

**SEQUOIA ANALYTICAL - ELAP #1210**

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Client Proj. ID: Chevron 9-0290/990224 R-2  
Sample Descript: B-12  
Matrix: LIQUID  
Analysis Method: 8015Mod/8020  
Lab Number: 9902D68-07

Sampled: 02/24/99  
Received: 02/25/99  
Analyzed: 03/07/99  
Reported: 03/16/99

QC Batch Number: GC030799BTEX30A  
Instrument ID: GCHP30

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

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	410
Methyl t-Butyl Ether	250	15000
Benzene	0.50	0.64
Toluene	0.50	N.D.
Ethyl Benzene	0.50	2.2
Xylenes (Total)	0.50	2.3
Chromatogram Pattern:		
Unidentified HC		C6-C12
Surrogates		
Trifluorotoluene	Control Limits % 70      130	% Recovery 129

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

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Client Proj. ID: Chevron 9-0290/990224 R-2  
Sample Descript: B-13  
Matrix: LIQUID  
Analysis Method: 8015Mod/8020  
Lab Number: 9902D68-08

Sampled: 02/24/99  
Received: 02/25/99  
Analyzed: 03/07/99  
Reported: 03/16/99

Attention: Christine Lillie  
QC Batch Number: GC030799BTEX02A  
Instrument ID: GCHP02

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

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	.....	59
Methyl t-Butyl Ether	13	530
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:	.....	.....
Unidentified HC	.....	c6-c12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	94

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

**SEQUOIA ANALYTICAL - ELAP #1210**

  
Mei Mei Shin  
Project Manager



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

Client Proj. ID: Chevron 9-0290/990224 R-2  
Sample Descript: TB  
Matrix: LIQUID  
Analysis Method: 8015Mod/8020  
Lab Number: 9902D68-09

Sampled: 02/24/99  
Received: 02/25/99  
  
Analyzed: 03/07/99  
Reported: 03/16/99

QC Batch Number: GC030799BTEX02A  
Instrument ID: GCHP02

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

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70                  130	87

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

**SEQUOIA ANALYTICAL - ELAP #1210**

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

Client Project ID: Chevron 9-0290/990224 R-2

QC Sample Group: 9902D68-01,04-07

Reported: Mar 16, 1999

### QUALITY CONTROL DATA REPORT

Matrix: Liquid  
Method: EPA 8015  
Analyst: TLP

ANALYTE Gasoline

QC Batch #: GC030799BTEX30A

Sample No.: GW9902D38-11  
Date Prepared: 3/7/99  
Date Analyzed: 3/7/99  
Instrument I.D.#: GCHP30

Sample Conc., ug/L: N.D.  
Conc. Spiked, ug/L: 250

Matrix Spike, ug/L: 230  
% Recovery: 93

Matrix  
Spike Duplicate, ug/L: 210  
% Recovery: 85

Relative % Difference: 9.0

RPD Control Limits: 0-25

LCS Batch#: GC030799BTEX30A

Date Prepared: 3/7/99  
Date Analyzed: 3/7/99  
Instrument I.D.#: GCHP30

Conc. Spiked, ug/L: 250

LCS Recovery, ug/L: 230  
LCS % Recovery: 92

Percent Recovery Control Limits:

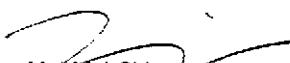
MS/MSD	60-140
LCS	70-130

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

Please Note:

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

SEQUOIA ANALYTICAL

  
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Project Manager



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Attention: Christine Lillie

Client Project ID: Chevron 9-0290/990224 R-2

QC Sample Group: 9902D68-02

Reported: Mar 16, 1999

### QUALITY CONTROL DATA REPORT

Matrix:	Liquid
Method:	EPA 8020
Analyst:	TLP

ANALYTE	Benzene	Toluene	Ethylbenzene	Xylenes
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QC Batch #: GC030899BTEX02A

Sample No.: GW9902D38-12

Date Prepared:	3/8/99	3/8/99	3/8/99	3/8/99
Date Analyzed:	3/8/99	3/8/99	3/8/99	3/8/99
Instrument I.D.#:	GCHP02	GCHP02	GCHP02	GCHP02

Sample Conc., ug/L:	N.D.	N.D.	N.D.	N.D.
Conc. Spiked, ug/L:	10	10	10	30

Matrix Spike, ug/L:	9.3	8.8	8.8	26
% Recovery:	93	88	88	88

Matrix Spike Duplicate, ug/L:	9.4	8.9	8.9	27
% Recovery:	94	89	89	90

Relative % Difference:	1.1	1.1	1.1	2.2
------------------------	-----	-----	-----	-----

RPD Control Limits:	0-25	0-25	0-25	0-25
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LCS Batch#: GC030899BTEX02

Date Prepared:	3/8/99	3/8/99	3/8/99	3/8/99
Date Analyzed:	3/8/99	3/8/99	3/8/99	3/8/99
Instrument I.D.#:	GCHP02	GCHP02	GCHP02	GCHP02

Conc. Spiked, ug/L:	10	10	10	30
---------------------	----	----	----	----

LCS Recovery, ug/L:	9.2	9.2	9.2	28
LCS % Recovery:	92	92	92	92

Percent Recovery Control Limits:

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

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

Please Note:

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

**SEQUOIA ANALYTICAL**

Mei-Mei Shin  
Project Manager



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Blaine Tech Services  
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Attention: Christine Lillie

Client Project ID: Chevron 9-0290/990224 R-2

QC Sample Group: 9902D68-08,09

Reported: Mar 16, 1999

### QUALITY CONTROL DATA REPORT

Matrix: Liquid  
Method: EPA 8015  
Analyst: TLP

**ANALYTE** Gasoline

QC Batch #: GC030799BTEX30A

Sample No.: GW9902D38-11

Date Prepared: 3/7/99  
Date Analyzed: 3/7/99  
Instrument I.D.#: GCHP30

Sample Conc., ug/L: N.D.  
Conc. Spiked, ug/L: 250

Matrix Spike, ug/L: 230  
% Recovery: 93

Matrix  
Spike Duplicate, ug/L: 210  
% Recovery: 85

Relative % Difference: 9.0

RPD Control Limits: 0-25

LCS Batch#: GC030799BTEX30A

Date Prepared: 3/7/99  
Date Analyzed: 3/7/99  
Instrument I.D.#: GCHP30

Conc. Spiked, ug/L: 250

LCS Recovery, ug/L: 230  
LCS % Recovery: 92

Percent Recovery Control Limits:

MS/MSD	60-140
LCS	70-130

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

Please Note:

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

**SEQUOIA ANALYTICAL**

Mei Mei Shin  
Project Manager





**Sequoia  
Analytical**

680 Chesapeake Drive  
404 N. Wiget Lane  
819 Striker Avenue, Suite 8  
1455 McDowell Blvd. North, Ste. D  
1551 Industrial Road

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(650) 232-9600

FAX (650) 364-9233  
FAX (925) 988-9673  
FAX (916) 921-0100  
FAX (707) 792-0342  
FAX (650) 232-9612

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

Client Project ID: Chevron 9-0290/990224 R-2

QC Sample Group: 9902D68-03

Reported: Mar 16, 1999

## QUALITY CONTROL DATA REPORT

Matrix: Liquid  
Method: EPA 8015  
Analyst: TLP

**ANALYTE** Gasoline

QC Batch #: GC030799BTEX30A

Sample No.: GW9902D38-11

Date Prepared: 3/7/99  
Date Analyzed: 3/7/99  
Instrument I.D.#: GCHP30

Sample Conc., ug/L: N.D.  
Conc. Spiked, ug/L: 250

Matrix Spike, ug/L: 230  
% Recovery: 93

Matrix  
Spike Duplicate, ug/L: 210  
% Recovery: 85

Relative % Difference: 9.0

RPD Control Limits: 0-25

LCS Batch#: GC030799BTEX30A

Date Prepared: 3/7/99  
Date Analyzed: 3/7/99  
Instrument I.D.#: GCHP30

Conc. Spiked, ug/L: 250

LCS Recovery, ug/L: 230  
LCS % Recovery: 92

Percent Recovery Control Limits:

MS/MSD	60-140
LCS	70-130

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

Please Note:

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

SEQUOIA ANALYTICAL

  
Mei Mei Shin  
Project Manager



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Sequoia - RC (Subbed In)  
680 Chesapeake Dr.  
Redwood City, CA 94063

Project: Mei Mei Shin  
Project Number: 9902D68  
Project Manager: Mei Mei Shin

Sampled: 2/24/99  
Received: 3/2/99  
Reported: 3/11/99

### ANALYTICAL REPORT FOR P903155

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
B-1	P903155-01	Water	2/24/99
B-5	P903155-02	Water	2/24/99
B-6	P903155-03	Water	2/24/99
B-10	P903155-04	Water	2/24/99
B-11	P903155-05	Water	2/24/99
B-12	P903155-06	Water	2/24/99
B-13	P903155-07	Water	2/24/99



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FAX (707) 792-0342

Sequoia - RC (Subbed In) 680 Chesapeake Dr. Redwood City, CA 94063	Project: Mei Mei Shin Project Number: 9902D68 Project Manager: Mei Mei Shin	Sampled: 2/24/99 Received: 3/2/99 Reported: 3/11/99
--	---	---

**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*
<b>B-1</b> <b>Diesel</b>	9030152	3/5/99	3/9/99	<u>P903155-01</u>		0.0500	<b>1.40</b>	<u>Water</u> mg/l 1
Surrogate: o-Terphenyl	"	"	"	-		105	%	
<b>B-5</b> <b>Diesel</b>	9030152	3/5/99	3/9/99	<u>P903155-02</u>		0.0500	<b>0.512</b>	<u>Water</u> mg/l 2
Surrogate: o-Terphenyl	"	"	"	-		87.0	%	
<b>B-6</b> <b>Diesel</b>	9030152	3/5/99	3/9/99	<u>P903155-03</u>		0.0526	<b>0.225</b>	<u>Water</u> mg/l 1
Surrogate: o-Terphenyl	"	"	"	-		78.7	%	
<b>B-10</b> <b>Diesel</b>	9030152	3/5/99	3/9/99	<u>P903155-04</u>		0.0556	<b>0.259</b>	<u>Water</u> mg/l 1
Surrogate: o-Terphenyl	"	"	"	-		78.3	%	
<b>B-11</b> <b>Diesel</b>	9030152	3/5/99	3/9/99	<u>P903155-05</u>		0.0500	<b>2.29</b>	<u>Water</u> mg/l 1
Surrogate: o-Terphenyl	"	"	"	-		140	%	
<b>B-12</b> <b>Diesel</b>	9030152	3/5/99	3/9/99	<u>P903155-06</u>		0.0500	<b>2.68</b>	<u>Water</u> mg/l 1
Surrogate: o-Terphenyl	"	"	"	-		146	%	
<b>B-13</b> <b>Diesel</b>	9030152	3/5/99	3/9/99	<u>P903155-07</u>		0.0500	<b>0.670</b>	<u>Water</u> mg/l 1
Surrogate: o-Terphenyl	"	"	"	-		105	%	



**Sequoia  
Analytical**

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FAX (707) 792-0342

Sequoia - RC (Subbed In)  
680 Chesapeake Dr.  
Redwood City, CA 94063

Project: Mei Mei Shin  
Project Number: 9902D68  
Project Manager: Mei Mei Shin

Sampled: 2/24/99  
Received: 3/2/99  
Reported: 3/11/99

**Total Petroleum Hydrocarbons as Diesel & others by EPA 801SM/Quality Control**  
**Sequoia Analytical - Petaluma**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD % Notes*
<u>Batch: 9030152</u>	<u>Date Prepared: 3/5/99</u>						<u>Extraction Method: EPA 3520B</u>		
<u>Blank</u>	<u>9030152-BLK1</u>								
Diesel	3/9/99			ND	mg/l		<b>0.0500</b>		
Surrogate: <i>o-Terphenyl</i>	"	0.100		0.0598	"		59.8		
<u>LCS</u>	<u>9030152-BS1</u>								
Diesel	3/9/99	1.00		0.629	mg/l	28.0-138	62.9		
Surrogate: <i>o-Terphenyl</i>	"	0.100		0.0889	"		88.9		
<u>LCS Dup</u>	<u>9030152-BSD1</u>								
Diesel	3/9/99	1.00		0.586	mg/l	28.0-138	58.6		
Surrogate: <i>o-Terphenyl</i>	"	0.100		0.0800	"		80.0		7.08



**Sequoia  
Analytical**

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Sequoia - RC (Subbed In)  
680 Chesapeake Dr.  
Redwood City, CA 94063

Project: Mei Mei Shin  
Project Number: 9902D68  
Project Manager: Mei Mei Shin

Sampled: 2/24/99  
Received: 3/2/99  
Reported: 3/11/99

#### Notes and Definitions

#	Note
1	Sample chromatographic pattern does not resemble the fuel standard used for quantitation.
2	Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
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

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

Yes

## Chain-of-Custody-Record

Chevron Facility Number <u>9-0290</u>		Chevron Contact (Name) <u>PHIL BRIGGS</u>
Facility Address <u>1802 Webster St., Alameda</u>		(Phone) <u>(925) 842-9136</u>
Consultant Project Number <u>990224 R-2</u>		Laboratory Name <u>SEQUOIA</u>
Consultant Name <u>BLAINE TECH SERVICE, INC.</u>		Laboratory Service Order <u>9144488</u>
Address <u>1680 ROGERS AVE., SAN JOSE</u>		Laboratory Service Code <u>ZZ02800</u>
Project Contact (Name) <u>CHRISTINE LILLIE</u>		Samples Collected by (Name) <u>SM Rosa</u>
(Phone) <u>408-573-0555</u> (Fax Number) <u>408-573-7771</u>		Signature <u>Rosa</u>

四 25 12 10

Distinguished By (Signature) 	Organization BTS	Date/Time 08/11/00	Received By (Signature) 	Organization SEQ	Date/Time 2-25-99 1100	Iced Y/N	Turn Around Time (Circle Choice)
Distinguished By (Signature) 	Organization SEQ	Date/Time 2/25/99	Received By (Signature)	Organization	Date/Time	Iced Y/N	24 hrs. 48 hrs. 5 Days 10 Days
(Signature)	Organization	Date/Time	Received For Laboratory By (Signature) 		Date/Time 2/25/00	Iced Y/N	As Contracted

# **Field Data Sheets**

## WELL GAUGING DATA

Project # 990224 R.2 Date 2/24/99 Client Chevron

Site 1802 Webster St. Alameda, CA

# CHEVRON WELL MONITORING DATA SHEET

Project #:	990224 R-2		Station #:	9-0290	
Sampler:	SR		Date:	2/24/99	
Well I.D.:	A-1		Well Diameter:	2 ③ 4 6 8	
Total Well Depth:	11.07		Depth to Water:	4.41	
Depth to Free Product:	3.95		Thickness of Free Product (feet):	.06	
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: \_\_\_\_\_

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

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
16:20	SPH	Bailed	FP	250 ml.	

Did well dewater? Yes No Gallons actually evacuated: \_\_\_\_\_

Sampling Time: \_\_\_\_\_ Sampling Date: \_\_\_\_\_

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

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

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

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

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

# CHEVRON WELL MONITORING DATA SHEET

Project #:	9902 24-R 2	Station #:	9-0290				
Sampler:	SR	Date:	2/24/99				
Well I.D.:	B-1	Well Diameter:	(2)	3	4	6	8
Total Well Depth:	15.97	Depth to Water:	4.29				
Depth to Free Product:		Thickness of Free Product (feet):					
Referenced to:	PVC	Grade	D.O. Meter (if req'd):	YSI	HACH		

<u>Well Diameter</u>	<u>Multiplier</u>	<u>Well Diameter</u>	<u>Multiplier</u>
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.166

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

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

<u>1.8</u>	X	<u>3</u>	=	<u>5.4</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
15:12	60.8	7.4	2500	2	mild odor
15:16	61.3	7.4	2600	4	turbid
15:21	61.8	7.4	2700	5.5	/

Did well dewater?	Yes	No	Gallons actually evacuated:	5.5
Sampling Time:	15:28		Sampling Date:	2/24/99
Sample I.D.:	B-1		Laboratory:	Sequoia CORE N. Creek Assoc. Labs

Analyzed for:	TPH-G	BTEX	MTBE	TPH-D	Other:	
Duplicate I.D.:		Analyzed for:	TPH-G	BTEX	MTBE	TPH-D
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 #:	9902 24-R 2	Station #:	9-0290				
Sampler:	SR	Date:	2/24/99				
Well I.D.:	B-5	Well Diameter:	(2)	3	4	6	8
Total Well Depth:	18.20	Depth to Water:	3.39				
Depth to Free Product:	Thickness of Free Product (feet):						
Referenced to:	PVC	Grade	D.O. Meter (if req'd):	YSI	HACH		

Well Diameter	Multipier	Well Diameter	Multipier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.165

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

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

$$\begin{array}{r}
 2.3 \\
 \hline
 \end{array} \times
 \begin{array}{r}
 3 \\
 \hline
 \end{array} = 
 \begin{array}{r}
 6.9 \\
 \hline
 \end{array} \text{ Gals.}$$

1 Case Volume (Gals.)      Specified Volumes      Calculated Volume

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
14:43	61.4	7.7	low	2.5	Very turbid
14:50	62.0	7.6	low	5.0	Mild odor
14:57	62.5	7.6	200	7.0	/

Did well dewater? Yes No Gallons actually evacuated: 7.0

Sampling Time: 15:03 Sampling Date: 2/24/99

Sample I.D.: B-5 Laboratory: Sequoia CORE N. Creek Assoc. Labs

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

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

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

C.R.P. (if req'd): Pre-purge: mV Post-purge: mV

# CHEVRON WELL MONITORING DATA SHEET

Project #:	990224 R-2	Station #:	9-0290				
Sampler:	5R	Date:	2/24/99				
Well I.D.:	B-6	Well Diameter:	(2)	3	4	6	8
Total Well Depth:	18.32	Depth to Water:	14.18				
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: \_\_\_\_\_

$$\frac{2.2}{\text{1 Case Volume (Gals.)}} \times \frac{3}{\text{Specified Volumes}} = \frac{6.6}{\text{Calculated Volume}} \text{ Gals.}$$

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
13:25	62.8	7.2	550	2.5	turbid
13:31	63.0	7.2	600	5	/
13:38	63.5	7.1	600	7	/

Did well dewater?	Yes	No	Gallons actually evacuated:	7.0	
Sampling Time:	13:45	Sampling Date:	2/24/99		
Sample I.D.:	B-6	Laboratory:	Sequoia	CORE N. Creek Assoc. Labs	
Analyzed for:	TPH-G	BTEX	MTBE	TPH-D	Other:
Duplicate I.D.:	Analyzed for: TPH-G BTEX MTBE TPH-D Other:				
D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L	
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV	

# CHEVRON WELL MONITORING DATA SHEET

Project #:	990224-R2	Station #:	9-0290				
Sampler:	SR	Date:	2/24/99				
Well I.D.:	B-7	Well Diameter:	( <u>2</u> )	3	4	6	8
Total Well Depth:	13.80	Depth to Water:	3.50				
Depth to Free Product:		Thickness of Free Product (feet):					
Referenced to:	PVC	Grade	D.O. Meter (if req'd):	YSI	HACH		

<u>Well Diameter</u>	<u>Multiplier</u>	<u>Well Diameter</u>	<u>Multiplier</u>
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 Baileys  
 Middleburg  
 Electric Submersible  
 Extraction Pump  
 Other: \_\_\_\_\_

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

<u>1.6</u>	x	<u>3</u>	=	<u>4.8</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
12:55	60.6	6.6	620	2	turbid
13:00	62.1	6.5	800	4	/
13:06	61.3	6.5	700	5	/

Did well dewater? Yes No Gallons actually evacuated: 5

Sampling Time: 13:10 Sampling Date: 2/24/99

Sample I.D.: B-7 Laboratory: Sequoia CORE N. Creek Assoc. Labs

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

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

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

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

# CHEVRON WELL MONITORING DATA SHEET

Project #:	9902 24-R 2		Station #:	9-0290	
Sampler:	SR		Date:	2/24/99	
Well I.D.:	B-10		Well Diameter:	② 3 4 6 8	
Total Well Depth:	16.00		Depth to Water:	4.23	
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"	0.57	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.163

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

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

$$\frac{1.8}{\text{1 Case Volume (Gals.)}} \times \frac{3}{\text{Specified Volumes}} = \frac{5.4}{\text{Calculated Volume}} \text{ Gals.}$$

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
13:55	61.8	6.8	1600	2	cloudy
14:00	61.6	6.8	1800	4	/
14:05	62.3	6.8	1700	5.5	/

Did well dewater? Yes  No Gallons actually evacuated: 5.5

Sampling Time: 14:09 Sampling Date: 2/24/99

Sample I.D.: B-10 Laboratory: Sequoia CORE N. Creek Assoc. Labs

Analyzed for:	TPH-G	BTEX	MTBE	TPH-D	Other:
Duplicate I.D.:	Analyzed for:	TPH-G	BTEX	MTBE	TPH-D
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 #:	9902 24-R 2		Station #:	9-0290	
Sampler:	SR		Date:	2/24/99	
Well I.D.:	B-12		Well Diameter:	(2) 3	4 6 8
Total Well Depth:	15.21		Depth to Water:	4.00	
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: \_\_\_\_\_

$$\begin{array}{r}
 1.7 \\
 \times \quad 3 \\
 \hline
 \end{array} = 5.1 \text{ Gals.}$$

1 Case Volume (Gals.)      Specified Volumes      Calculated Volume

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
16:00	59.0	7.2	1600	2	turbid
16:05	59.2	7.2	1800	4	/
16:09	59.9	7.2	1700	5.5	/

Did well dewater? Yes  Gallons actually evacuated: 5.5

Sampling Time: 16:15 Sampling Date: 2/24/99

Sample I.D.: B-12 Laboratory: Sequoia CORE N. Creek Assoc. Labs

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

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

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

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

# CHEVRON WELL MONITORING DATA SHEET

Project #:	9902 24-R 2		Station #:	9-0290	
Sampler:	SR		Date:	2/24/99	
Well I.D.:	B-13		Well Diameter:	2	3 4 6 8
Total Well Depth:	13.98		Depth to Water:	4.03	
Depth to Free Product:			Thickness of Free Product (feet):		
Referenced to:	PVC	Grade	D.O. Meter (if req'd):	YSI	HACH

Well Diameter	Multipier	Well Diameter	Multipier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.165

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

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

$$\begin{array}{r}
 1.5 \\
 \hline
 \end{array} \times
 \begin{array}{r}
 3 \\
 \hline
 \end{array} = 
 \begin{array}{r}
 4.5 \\
 \hline
 \end{array} \text{ Gals.}$$

1 Case Volume (Gals.)      Specified Volumes      Calculated Volume

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
14:15	60.0	7.2	800	1.5	turbid
14:20	60.8	7.2	800	3	
14:25	61.3	7.1	900	4.5	

Did well dewater? Yes  Gallons actually evacuated: 4.5

Sampling Time: 14:30 Sampling Date: 2/24/99

Sample I.D.: B-13 Laboratory: Sequoia CORE N. Creek Assoc. Labs

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

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

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

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