

02/11/95



**Chevron**

December 3, 1995

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

**Mr. Scott Seery**  
Alameda County Health Care Services  
Department of Environmental Health  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

**Mark A. Miller**  
SAR Engineer  
Phone No. 510 842-8134  
Fax No. 510 842-8252

**Re: Chevron Service Station #9-6991**  
**2920 Castro Valley Boulevard, Castro Valley, CA**

RECEIVED  
DEC 11 1995  
SAR ENGINEER

Dear Mr. Seery:

Enclosed is the Third Quarter 1995 Groundwater Monitoring Report dated November 2, 1995, prepared by our consultant Blaine Tech Services, Inc. for the above referenced site. As indicated in the report, ground water samples collected were analyzed for total petroleum hydrocarbons as gasoline, total petroleum hydrocarbons as diesel, and BTEX. Dissolved concentrations of these constituents were consistent with previous measurements at the site. Depth to ground water was measured at 9.9 to 11.6 feet below grade and the direction of flow is to the southwest.

Concentrations in newly installed monitor well MW-7 are low and indicate that hydrocarbons observed in MW-6 are not the result of Chevron's operations. At this time it appears appropriate to move forward with a monitoring management plan similar to the one outlined in the Comprehensive Site Evaluation and Proposed Future Action Plan dated December 20, 1994, prepared by our consultant Weiss Associates. A copy of this plan is enclosed. Modifications to this proposed plan would include monitoring and sampling of MW-7 on a quarterly basis for one year and discontinuing monitoring and sampling of monitor well MW-6. All reporting would be done on a semi-annual basis. The sampling program would be reevaluated at the end of 1997.

We invite your comments on this proposed course of action and will move forward with these modifications following your review and concurrence. If you have any questions or comments, please feel free to contact me at (510) 842-8134.

Sincerely,  
CHEVRON U.S.A. PRODUCTS COMPANY

Mark A. Miller  
Site Assessment and Remediation Engineer



Mr. Scott Seery  
December 3, 1995  
Page 2

Enclosures

cc: Mr. J.H. Ough

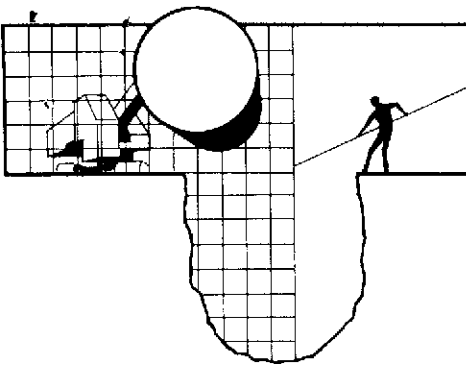
- 5) Monitor and report analytical data from well MW-6 semi-annually for 1 year at the seasonal high and low water table. If all the data continue to indicate that the hydrocarbons in MW-6 originate offsite or if concentrations approach the MCL for benzene, then reduce ground water monitoring to annual for 1 year. Monitoring will cease after 2 years if the contingency plan is not implemented during that time.

Proposed Monitoring and Sampling Schedule. Chevron Service Station #9-6991

Well ID	1995				1996				1997			
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
MW-1	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	---	G&S	---	G&S	---	G&S	---	G&S	---	G&S	---	---
MW-3	---	---	---	---	---	---	---	---	---	---	---	---
MW-4	---	---	---	---	---	---	---	---	---	---	---	---
MW-5	---	G&S	---	G&S	---	G&S	---	G&S	---	G&S	---	---
MW-6	---	G&S	---	G&S	---	G&S	---	---	---	---	---	---

G&S = Gauging and Sampling

**Contingency Plan:** For each of the three sampling points, "baseline" and "trigger" conditions have been defined (appendix D). Should monitoring indicate that "trigger" conditions occur in any well for two consecutive monitoring periods, a Contingency Plan for increased ground water monitoring will go into effect. This plan will ensure that "baseline" conditions are maintained in all wells. Details of the contingency plan are presented in Appendix D.



# BLAINE TECH SERVICES INC.

985 TIMOTHY DRIVE  
SAN JOSE, CA 95133  
(408) 995-5535  
FAX (408) 293-8773

November 2, 1995

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

## 3rd Quarter 1995 Monitoring at 9-6991

Third Quarter 1995 Groundwater Monitoring at  
Chevron Service Station Number 9-6991  
2920 Castro Valley Blvd.  
Castro Valley, CA

Monitoring Performed on September 25, 1995

950925-A-1  
2920 CASTRO VALLEY BLVD  
CASTRO VALLEY, CA 94546

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## Groundwater Sampling Report 950925-A-1

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

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

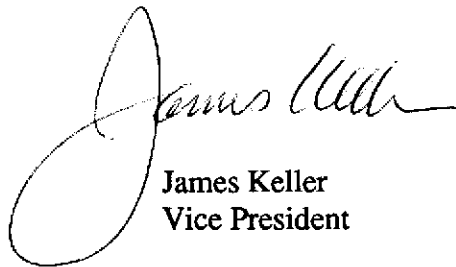
Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL DATA AND ANALYTICAL RESULTS**. The full analytical report for the most recent samples is located in the **Analytical Appendix**. The table also contains new groundwater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

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

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

Please call if you have any questions.

Yours truly,

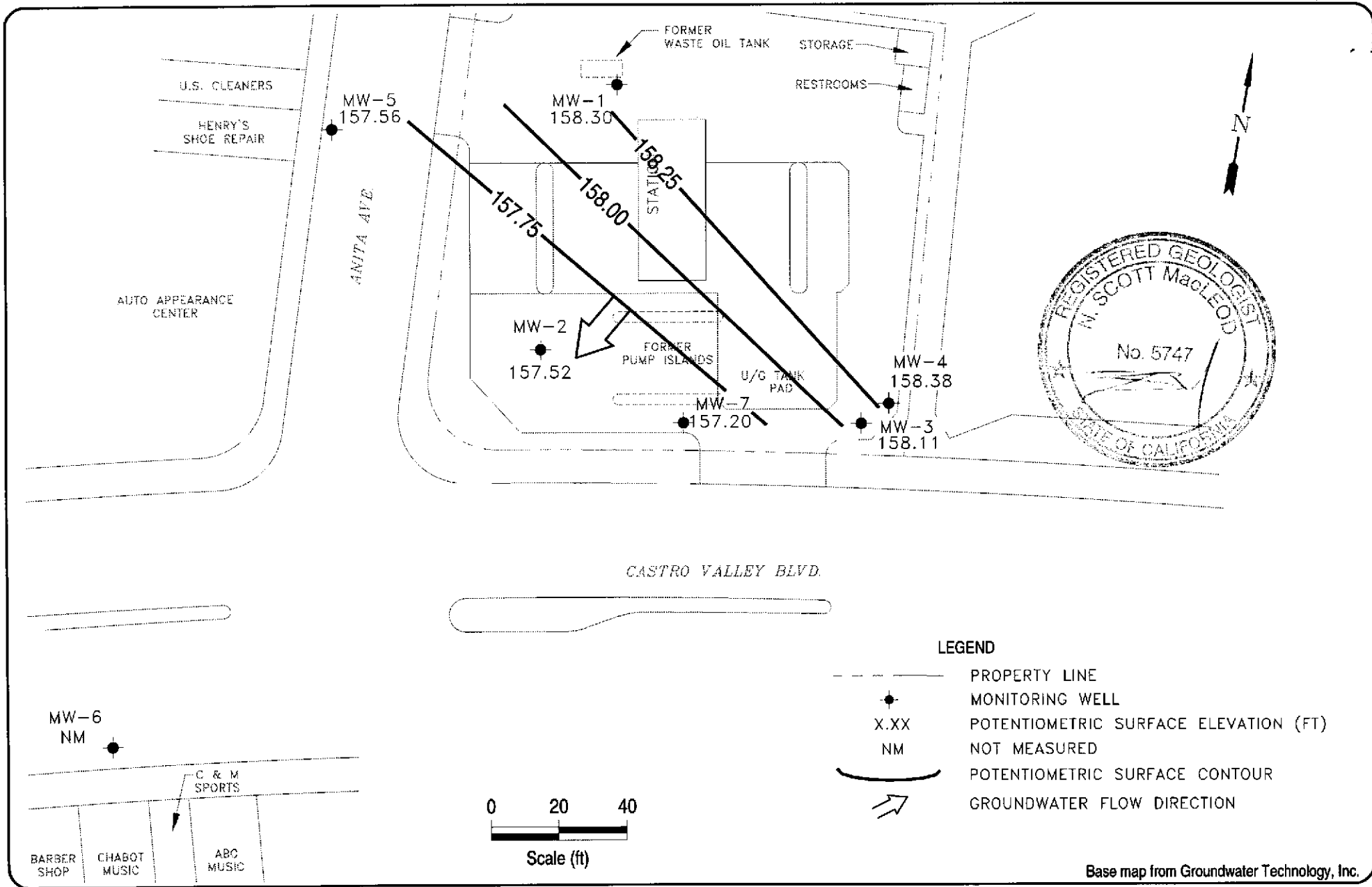
A handwritten signature in cursive script, appearing to read "James Keller".

James Keller  
Vice President

JPK/dk

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

# **Professional Engineering Appendix**



Chevron Station 9-6991  
2920 Castro Valley Boulevard  
Castro Valley, California

VCHEVRON9-6991\6991-QM.DWG

Ground Water Elevation  
September 25, 1995

**FIGURE**  
**1**

**Table of  
Well Data and  
Analytical Results**



## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	TPH-Diesel	TOG
<b>MW-1</b>											
10/08/91	169.30	158.20	11.10	--	230	45	<0.5	0.9	9.1	--	<5000
11/04/91	169.30	158.27	11.03	--	340	120	<0.5	<0.5	6.1	--	--
12/04/91	169.30	158.25	11.05	--	<50	3.9	<0.5	<0.5	<0.5	170	<5000
06/05/92	169.30	158.26	11.04	--	100	26	0.6	0.5	1.0	<50	--
10/27/92	169.30	158.20	11.10	--	<50	11	<0.5	<0.5	<0.5	54	--
12/30/92	169.30	--	--	--	<50	24	<0.5	<0.5	<0.5	170	--
01/27/93	169.30	158.67	10.63	--	--	--	--	--	--	--	--
03/05/93	169.30	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<50	--
03/17/93	169.30	158.59	10.71	--	--	--	--	--	--	--	--
06/18/93	169.30	158.29	11.01	--	<50	0.6	<0.5	<0.5	<1.5	<50	--
09/28/93	169.30	157.35	11.95	--	<50	0.8	<0.5	<0.5	<1.5	<50	--
12/30/93	169.30	158.34	10.96	--	<50	8.5	<0.5	<0.5	<0.5	<50	--
04/07/94	169.30	158.49	10.81	--	<50	<0.5	<0.5	<0.5	<0.5	<10	--
05/31/94	169.30	158.38	10.92	--	<50	1.0	<0.5	<0.5	<0.5	<50	--
09/23/94	169.30	158.40	10.90	--	<50	1.3	<0.5	<0.5	<0.5	<50	--
11/30/94	169.30	158.76	10.54	--	<50	8.9	<0.5	<0.5	<0.5	570*	--
03/30/95	169.30	158.60	10.70	--	<50	<0.5	<0.5	<0.5	<0.5	110**	--
06/06/95	169.30	158.38	10.92	--	61	15	<0.5	<0.5	<0.5	570**	--
09/25/95	169.30	158.30	11.00	--	<50	4.7	<0.5	<0.5	<0.5	550**	--

\* 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.

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
<b>MW-2</b>											
10/08/91	169.15	157.20	11.95	--	110	5.1	1.1	0.8	26	--	--
11/19/91	169.15	157.40	11.75	--	120	11	1.1	<0.5	17	--	--
12/04/91	169.15	157.35	11.80	--	440	30	2.5	<0.5	52	130	--
06/05/92	169.15	157.35	11.80	--	80	13	<0.5	<0.5	1.0	130	--
10/27/92	169.15	157.15	12.00	--	54	13	<0.5	<0.5	<0.5	110	--
12/30/92	169.15	--	--	--	180	30	<0.5	<0.5	1.0	92	--
01/27/93	169.15	158.24	10.91	--	--	--	--	--	--	--	--
03/05/93	169.15	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<50	--
03/17/93	169.15	158.26	10.89	--	--	--	--	--	--	--	--
06/18/93	169.15	157.41	11.74	--	<50	1.4	<0.5	<0.5	<1.5	<50	--
09/28/93	169.15	157.97	11.18	--	<50	0.6	<0.5	<0.5	<1.5	<50	--
12/30/93	169.15	158.34	21.00	--	<50	0.9	<0.5	<0.5	<0.5	<50	--
04/07/94	169.15	158.40	10.75	--	<50	<0.5	<0.5	<0.5	<0.5	<10	--
05/31/94	169.15	158.35	10.80	--	<50	<0.5	<0.5	<0.5	<0.5	<50	--
09/23/94	169.15	157.50	11.65	--	<50	0.7	<0.5	<0.5	<0.5	120	--
11/30/94	169.15	158.41	10.74	--	55	2.9	<0.5	1.4	0.94	570*	--
03/30/95	169.15	158.25	10.90	--	91	4.5	<0.5	3.8	<0.5	430**	--
06/06/95	169.15	157.73	11.42	--	<50	<0.5	<0.5	<0.5	<0.5	410**	--
09/25/95	169.15	157.52	11.63	--	<50	<0.5	<0.5	<0.5	<0.5	220**	--

\* Chromatogram pattern indicates a non-diesel mix + discrete peaks.

\*\* 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
<b>MW-3</b>											
10/08/91	169.11	160.84	8.27	--	81	1.9	0.7	0.8	2.4	--	--
11/04/91	169.11	158.26	10.85	--	60	<0.5	<0.5	<0.5	<0.5	--	--
12/04/91	169.11	158.06	11.05	--	<50	<0.5	<0.5	<0.5	<0.5	<50	--
06/05/92	169.11	157.96	11.15	--	<50	<0.5	<0.5	<0.5	<0.5	170	--
10/27/92	169.11	157.51	11.60	--	<50	<0.5	<0.5	<0.5	<0.5	120	--
12/30/92	169.11	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	170	--
01/27/93	169.11	160.00	9.11	--	--	--	--	--	--	--	--
03/05/93	169.11	--	--	--	--	--	--	--	--	--	--
03/17/93	169.11	159.16	9.95	--	--	--	--	--	--	--	--
06/18/93	169.11	158.22	10.89	--	<50	<0.5	<0.5	<0.5	<1.5	<50	--
09/28/93	169.11	159.49	9.62	--	<50	<0.5	<0.5	<0.5	<1.5	<50	--
12/30/93	169.11	159.80	9.31	--	<50	<0.5	<0.5	<0.5	<0.5	<50	--
04/07/94	169.11	160.30	8.81	--	<50	<0.5	<0.5	<0.5	<0.5	<10	--
05/31/94	169.11	160.21	8.90	--	<50	<0.5	<0.5	<0.5	<0.5	<50	--
09/23/94	169.11	158.48	10.63	--	<50	<0.5	<0.5	<0.5	<0.5	<50	--
11/30/94	169.11	160.19	8.92	Inaccessible	--	--	--	--	--	--	--
03/30/95	169.11	160.01	9.10	--	<50	<0.5	<0.5	<0.5	<0.5	290*	--
06/06/95	169.11	158.79	10.32	--	<50	<0.5	<0.5	<0.5	<0.5	150*	--
09/25/95	169.11	158.11	11.00	--	<50	<0.5	<0.5	<0.5	<0.5	260*	--

\* 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
<b>MW-4</b>											
10/27/92	169.18	157.79	11.39	--	<50	<0.5	0.6	0.5	4.3	<50	--
12/30/92	169.18	159.05	10.13	--	<50	<0.5	<0.5	<0.5	<0.5	<50	--
01/27/93	169.18	160.09	9.09	--	--	--	--	--	--	--	--
03/05/93	169.18	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<50	--
03/17/93	169.18	159.28	9.90	--	--	--	--	--	--	--	--
06/18/93	169.18	158.50	10.68	--	<50	<0.5	<0.5	<0.5	<1.5	<50	--
09/28/93	169.18	159.82	9.36	--	<50	<0.5	<0.5	<0.5	<1.5	<50	--
12/30/93	169.18	159.91	9.27	--	<50	<0.5	<0.5	<0.5	<0.5	<50	--
04/07/94	169.18	160.37	8.81	--	<50	<0.5	<0.5	<0.5	<0.5	<10	--
05/31/94	169.18	160.27	8.91	--	<50	<0.5	<0.5	<0.5	<0.5	<50	--
09/23/94	169.18	158.79	10.39	--	<50	<0.5	<0.5	<0.5	<0.5	<50	--
11/30/94	169.18	160.08	9.10	--	<50	<0.5	<0.5	<0.5	<0.5	58*	--
03/30/95	169.18	160.66	8.52	--	<50	<0.5	<0.5	<0.5	<0.5	61**	--
06/06/95	169.18	158.70	10.48	--	<50	<0.5	<0.5	<0.5	<0.5	<50	--
09/25/95	169.18	158.38	10.80	--	<50	<0.5	<0.5	<0.5	<0.5	<50	--

\* 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.

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
<b>MW-5</b>											
10/27/92	167.41	157.46	9.95	--	74	<0.5	<0.5	0.6	7.1	<50	--
12/30/92	167.41	158.21	9.20	--	<50	<0.5	<0.5	<0.5	<0.5	<50	--
01/27/93	167.41	157.80	9.61	--	--	--	--	--	--	--	--
03/05/93	167.41	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<50	--
03/17/93	167.41	157.90	9.51	--	--	--	--	--	--	--	--
06/18/93	167.41	157.56	9.85	--	<50	<0.5	<0.5	<0.5	<0.5	<50	--
09/28/93	167.41	157.55	9.86	--	<50	<0.5	<0.5	<0.5	<1.5	<50	--
12/30/93	167.41	157.08	10.33	--	<50	<0.5	<0.5	<0.5	<0.5	<50	--
04/07/94	167.41	157.69	9.72	--	<50	<0.5	<0.5	<0.5	<0.5	<10	--
05/31/94	167.41	157.68	9.73	--	<50	<0.5	<0.5	<0.5	<0.5	<50	--
09/23/94	167.41	157.56	9.85	--	<50	<0.5	<0.5	<0.5	<0.5	<50	--
11/30/94	167.41	157.73	9.68	--	<50	<0.5	<0.5	<0.5	<0.5	79*	--
03/30/95	167.41	157.79	9.62	--	<50	<0.5	<0.5	<0.5	<0.5	<50	--
06/06/95	167.41	157.55	9.86	--	<50	<0.5	<0.5	<0.5	<0.5	<50	--
09/25/95	167.41	157.56	9.85	--	<50	<0.5	<0.5	<0.5	<0.5	<50	--
<b>MW-6</b>											
10/27/92	166.46	153.92	12.54	--	600	22	22	24	130	<50	--
12/30/92	166.46	156.26	10.20	--	1700	170	16	46	160	470	--
01/27/93	166.46	156.44	10.02	--	--	--	--	--	--	--	--
03/05/93	166.46	--	--	--	480	76	0.9	3.1	7.1	150	--
03/17/93	166.46	155.79	10.67	--	--	--	--	--	--	--	--
06/18/93	166.46	154.63	11.83	--	240	37	3.4	2.9	18	51	--
09/28/93	166.46	154.90	11.56	--	150	11	1.2	1.3	4.3	120	--
12/30/93	166.46	154.81	11.65	--	680	77	5.1	5.5	13	290	--
04/07/94	166.46	155.34	11.12	--	190	24	2.9	1.9	8.0	<10	--
05/31/94	166.46	--	--	--	--	--	--	--	--	--	--
09/23/94	166.46	155.05	11.41	--	--	--	--	--	--	--	--
11/30/94	166.46	156.58	9.88	--	320	49	0.58	1.4	1.2	150*	--

NO LONGER MONITORED OR SAMPLED.

\* Chromatogram pattern indicates a non-diesel mix.

## 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
<b>MW-7</b>											
09/25/95	168.80	157.20	11.60	--	220	0.79	<0.5	0.67	<0.5	1400*	--
<b>TRIP BLANK</b>											
10/08/91	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/04/91	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/04/91	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<50	--
06/05/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/30/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/27/93	--	--	--	--	--	--	--	--	--	<50	--
03/05/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/17/93	--	--	--	--	--	--	--	--	--	--	--
06/18/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
09/28/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/30/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/07/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/31/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/23/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/30/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/30/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/06/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/25/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--

\* Chromatogram pattern indicates an unidentified hydrocarbon.

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 and Grease

# Analytical Appendix



Blaine Technical Services 985 Timothy Drive San Jose, CA 95133	Client Proj. ID: Chevron 9-6991, 950925-A1 Sample Descript: MW-1 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9509G51-01	Sampled: 09/25/95 Received: 09/26/95 Extracted: 09/27/95 Analyzed: 09/29/95 Reported: 10/09/95
Attention: Jim Keller		

QC Batch Number: GC0927950HBPEXY  
Instrument ID: GCHP4B

**Total Extractable Petroleum Hydrocarbons (TEPH)**

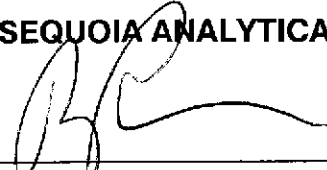
Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50 C9-C24	550 Unidentified HC

Discrete peaks were observed. The observed discrete peaks are not consistent with peaks commonly detected in motor fuel hydrocarbons.

Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	162 Q

Results quantitated against a diesel standard.  
Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL** - ELAP #1210

  
Peggy Penner  
Project Manager







Blaine Technical Services 985 Timothy Drive San Jose, CA 95133 Attention: Jim Keller	Client Proj. ID: Chevron 9-6991, 950925-A1 Sample Descript: MW-1 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9509G51-01	Sampled: 09/25/95 Received: 09/26/95 Analyzed: 09/28/95 Reported: 10/09/95
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QC Batch Number: GC092895BTEX03A  
Instrument ID: GCHP03

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

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
<b>Benzene</b>	<b>0.50</b>	<b>4.7</b>
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70                      130	107

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

**SEQUOIA ANALYTICAL** - ELAP #1210

  
Peggy Penner  
Project Manager





Blaine Technical Services	Client Proj. ID: Chevron 9-6991, 950925-A1	Sampled: 09/25/95
985 Timothy Drive	Sample Descript: MW-2	Received: 09/26/95
San Jose, CA 95133	Matrix: LIQUID	Extracted: 09/27/95
Attention: Jim Keller	Analysis Method: EPA 8015 Mod	Analyzed: 09/29/95
	Lab Number: 9509G51-02	Reported: 10/09/95

QC Batch Number: GC0927950HBPEXY  
Instrument ID: GCHP4B

**Total Extractable Petroleum Hydrocarbons (TEPH)**

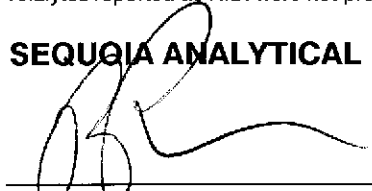
Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50 C9-C24	220 Unidentified HC

Discrete peaks were observed. The observed discrete peaks are not consistent with peaks commonly detected in motor fuel hydrocarbons.

Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50                      150	115

Results quantitated against a diesel standard.  
Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL** - ELAP #1210



Peggy Penner  
Project Manager





Blaine Technical Services	Client Proj. ID: Chevron 9-6991, 950925-A1	Sampled: 09/25/95
985 Timothy Drive	Sample Descript: MW-2	Received: 09/26/95
San Jose, CA 95133	Matrix: LIQUID	
Attention: Jim Keller	Analysis Method: 8015Mod/8020	Analyzed: 09/28/95
	Lab Number: 9509G51-02	Reported: 10/09/95


QC Batch Number: GC092895BTEX03A  
Instrument ID: GCHP03

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

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70                      130	90

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

**SEQUOIA ANALYTICAL** - ELAP #1210

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





Blaine Technical Services 985 Timothy Drive San Jose, CA 95133	Client Proj. ID: Chevron 9-6991, 950925-A1 Sample Descript: MW-3 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9509G51-03	Sampled: 09/25/95 Received: 09/26/95 Extracted: 09/27/95 Analyzed: 09/29/95 Reported: 10/09/95
Attention: Jim Keller		

QC Batch Number: GC0927950HBPEXY  
Instrument ID: GCHP4B

**Total Extractable Petroleum Hydrocarbons (TEPH)**


Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50 C9-C24	260 Unidentified HC

Discrete peaks were observed. The observed discrete peaks are not consistent with peaks commonly detected in motor fuel hydrocarbons.

Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50                      150	137

Results quantitated against a diesel standard.  
Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL** - ELAP #1210



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





Blaine Technical Services	Client Proj. ID: Chevron 9-6991, 950925-A1	Sampled: 09/25/95
985 Timothy Drive	Sample Descript: MW-3	Received: 09/26/95
San Jose, CA 95133	Matrix: LIQUID	
Attention: Jim Keller	Analysis Method: 8015Mod/8020	Analyzed: 09/28/95
	Lab Number: 9509G51-03	Reported: 10/09/95

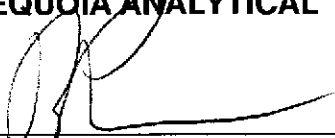
QC Batch Number: GC092895BTEX03A  
Instrument ID: GCHP03

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

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70                      130	95

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

**SEQUOIA ANALYTICAL** - ELAP #1210




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Peggy Penner  
Project Manager





Blaine Technical Services 985 Timothy Drive San Jose, CA 95133	Client Proj. ID: Chevron 9-6991, 950925-A1 Sample Descript: MW-4 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9509G51-04	Sampled: 09/25/95 Received: 09/26/95 Extracted: 09/27/95 Analyzed: 09/29/95 Reported: 10/09/95
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QC Batch Number: GC0927950HBPEXY  
Instrument ID: GCHP4B

**Total Extractable Petroleum Hydrocarbons (TEPH)**

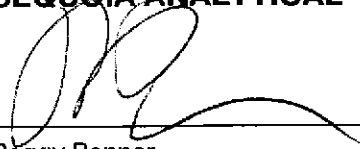
Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50	N.D.

Discrete peaks were observed. The observed discrete peaks are not consistent with peaks commonly detected in motor fuel hydrocarbons.

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	115

Results quantitated against a diesel standard.  
Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL** - ELAP #1210




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Peggy Penner  
Project Manager





Blaine Technical Services 985 Timothy Drive San Jose, CA 95133 Attention: Jim Keller	Client Proj. ID: Chevron 9-6991, 950925-A1 Sample Descript: MW-4 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9509G51-04	Sampled: 09/25/95 Received: 09/26/95 Analyzed: 09/28/95 Reported: 10/09/95
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QC Batch Number: GC092895BTEX03A  
Instrument ID: GCHP03

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

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70                      130	87

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

**SEQUOIA ANALYTICAL** - ELAP #1210

  
Peggy Penner  
Project Manager





Blaine Technical Services 985 Timothy Drive San Jose, CA 95133 Attention: Jim Keller	Client Proj. ID: Chevron 9-6991, 950925-A1 Sample Descript: MW-5 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9509G51-05	Sampled: 09/25/95 Received: 09/26/95 Extracted: 09/27/95 Analyzed: 09/30/95 Reported: 10/09/95
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QC Batch Number: GC0927950HBPEXY  
Instrument ID: GCHP4B

**Total Extractable Petroleum Hydrocarbons (TEPH)**

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50	N.D.
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
n-Pentacosane (C25)	50                      150	115

Results quantitated against a diesel standard.  
Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL** - ELAP #1210

Peggy Penner  
Project Manager







Blaine Technical Services 985 Timothy Drive San Jose, CA 95133	Client Proj. ID: Chevron 9-6991, 950925-A1 Sample Descript: MW-5 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9509G51-05	Sampled: 09/25/95 Received: 09/26/95  Analyzed: 09/28/95 Reported: 10/09/95
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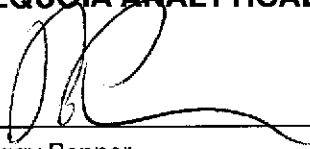
QC Batch Number: GC092895BTEX03A  
Instrument ID: GCHP03

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

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70                      130	91

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

**SEQUOIA ANALYTICAL** - ELAP #1210




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Peggy Penner  
Project Manager





Blaine Technical Services	Client Proj. ID: Chevron 9-6991, 950925-A1	Sampled: 09/25/95
985 Timothy Drive	Sample Descript: MW-7	Received: 09/26/95
San Jose, CA 95133	Matrix: LIQUID	Extracted: 09/27/95
Attention: Jim Keller	Analysis Method: EPA 8015 Mod	Analyzed: 09/30/95
	Lab Number: 9509G51-06	Reported: 10/09/95

QC Batch Number: GC0927950HBPEXY  
Instrument ID: GCHP4B

**Total Extractable Petroleum Hydrocarbons (TEPH)**

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50 W-Diesel	1400 Unidentified HC
Surrogates n-Pentacosane (C25)	Control Limits % 50                      150	% Recovery 118

Results quantitated against a diesel standard.  
Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL** - ELAP #1210

Peggy Penner  
Project Manager





Blaine Technical Services 985 Timothy Drive San Jose, CA 95133 Attention: Jim Keller	Client Proj. ID: Chevron 9-6991, 950925-A1 Sample Descript: MW-7 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9509G51-06	Sampled: 09/25/95 Received: 09/26/95 Analyzed: 09/28/95 Reported: 10/09/95
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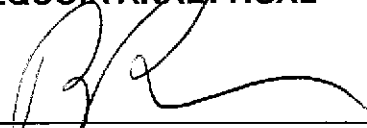
QC Batch Number: GC092895BTEX03A  
Instrument ID: GCHP03

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

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	220
Benzene	0.50	0.79
Toluene	0.50	N.D.
Ethyl Benzene	0.50	0.67
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern: Unidentified HC		C6-C12
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70                      130	89

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

**SEQUOIA ANALYTICAL** - ELAP #1210

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





Blaine Technical Services	Client Proj. ID: Chevron 9-6991, 950925-A1	Sampled: 09/25/95
985 Timothy Drive	Sample Descript: TB	Received: 09/26/95
San Jose, CA 95133	Matrix: LIQUID	
Attention: Jim Keller	Analysis Method: 8015Mod/8020	Analyzed: 09/28/95
	Lab Number: 9509G51-07	Reported: 10/09/95

QC Batch Number: GC092895BTEX03A  
Instrument ID: GCHP03

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

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70                      130	93

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

**SEQUOIA ANALYTICAL** - ELAP #1210

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





**Sequoia  
Analytical**

680 Chesapeake Drive  
404 N. Wiget Lane  
819 Striker Avenue, Suite 8

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

(415) 364-9600  
(510) 988-9600  
(916) 921-9600

FAX (415) 364-9233  
FAX (510) 988-9673  
FAX (916) 921-0100

Blaine Technical Services  
985 Timothy Drive  
San Jose, CA 95133  
Attention: Jim Keller

Client Proj. ID: Chevron 9-6991, 950925-A1  
Lab Proj. ID: 9509G51

Received: 09/26/95

Reported: 10/09/95

### LABORATORY NARRATIVE

Q = High surrogate recovery due to coelution.

**SEQUOIA ANALYTICAL**

Peggy Penner  
Project Manager





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

Client Project ID: **Chevron 9-6991, 950925-A1**  
Matrix: **Liquid**

Work Order #: **9509G51 -01-07**

Reported: **Oct 11, 1995**

**QUALITY CONTROL DATA REPORT**

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC092895BTEX03A	GC092895BTEX03A	GC092895BTEX03A	GC092895BTEX03A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	J. Woo	J. Woo	J. Woo	J. Woo
MS/MSD #:	9509A6110	9509A6110	9509A6110	9509A6110
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	9/28/95	9/28/95	9/28/95	9/28/95
Analyzed Date:	9/28/95	9/28/95	9/28/95	9/28/95
Instrument I.D.#:	GCHP3	GCHP3	GCHP3	GCHP3
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	9.0	8.7	8.5	26
MS % Recovery:	90	87	85	87
Dup. Result:	9.5	9.3	9.2	28
MSD % Recov.:	95	93	92	93
RPD:	5.4	6.7	7.9	7.4
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:	-	-	-	-
Prepared Date:	-	-	-	-
Analyzed Date:	-	-	-	-
Instrument I.D.#:	-	-	-	-
Conc. Spiked:	-	-	-	-
LCS Result:	-	-	-	-
LCS % Recov.:	-	-	-	-

MS/MSD				
LCS	71-133	72-128	72-130	71-120
Control Limits				

**SEQUOIA ANALYTICAL**

Peggy Fenner  
Project Manager

**Please Note:**

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

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

9509G51.BLA <1>





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

Client Project ID: Chevron 9-6991, 950925-A1  
Matrix: Liquid

Work Order #: 9509G51-01-06

Reported: Oct 11, 1995

**QUALITY CONTROL DATA REPORT**

Analyte: Diesel

QC Batch#: GC0927950HBPEXY  
Analy. Method: EPA 8015M  
Prep. Method: EPA 3520

Analyst: T. Olive  
MS/MSD #: 9509D3601  
Sample Conc.: 790  
Prepared Date: 9/27/95  
Analyzed Date: 9/29/95  
Instrument I.D.#: GCHP4  
Conc. Spiked: 1000 µg/L

Result: 1800  
MS % Recovery: 101

Dup. Result: 1700  
MSD % Recov.: 91

RPD: 5.7  
RPD Limit: 0-50

LCS #: BLK092795

Prepared Date: 9/27/95  
Analyzed Date: 9/29/95  
Instrument I.D.#: GCHP4  
Conc. Spiked: 1000 µg/L

LCS Result: 1000  
LCS % Recov.: 100

MS/MSD  
LCS 38-122  
Control Limits

**SEQUOIA ANALYTICAL**

Peggy Penner  
Project Manager

**Please Note:**

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

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

9509G51.BLA <2>



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

# Chain-of-Custody-Record

<p><b>Chevron U.S.A. Inc.</b>          P.O. BOX 5004          San Ramon, CA 94583          FAX (415)842-9591</p>	<p>Chevron Facility Number <u>9-6991</u>          Facility Address <u>2920 Castro Valley Blvd., Castro Valley</u>          Consultant Project Number <u>950975-A1</u>          Consultant Name <u>Blaine Tech Services, Inc.</u>          Address <u>985 Timothy Dr., San Jose, CA 95133</u>          Project Contact (Name) <u>Jim Keller</u>          (Phone) <u>408 995-5535</u> (Fax Number) <u>408 293-8773</u></p>	<p>Chevron Contact (Name) <u>Mark Miller</u>          (Phone) <u>(510) 842-8134</u>          Laboratory Name <u>Sequoia</u>          Laboratory Release Number <u>2172780</u>          Samples Collected by (Name) <u>RANDY VALENTINE</u>          Collection Date <u>9-25-95</u>          Signature <u>Randy Valentine</u></p>
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Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed											DO NOT BILL FOR TB-LB  Remarks
								BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)				
MW1		5	W	G	1301	HCI	Y	X	X										1
MW2		5	W	G	1047	HCI	Y	X	X										2
MW3		5	W	G	1147	HCI	Y	X	X										3
MW4		5	W	G	1216	HCI	Y	X	X										4
MW5		5	W	G	1006	HCI	Y	X	X										5
MW7		5	W	G	1113	HCI	Y	X	X										6
TB		2	W	G		HCI	Y	X											7

9509651

SEP 26 12

Relinquished By (Signature) <u>Randy Valentine</u>	Organization <u>BTS</u>	Date/Time <u>9-26-95 10:45A</u>	Received By (Signature) <u>SK</u>	Organization <u>SEQ</u>	Date/Time <u>9-26-95 10:45A</u>	Turn Around Time (Circle Choice)  24 Hrs. 48 Hrs. 5 Days <u>10 Days</u> As Contracted
Relinquished By (Signature) <u>SK</u>	Organization <u>SEQ</u>	Date/Time <u>9-26-95 12:30P</u>	Received By (Signature)	Organization	Date/Time	
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature) <u>Tony McCh...</u>		Date/Time <u>09-26-95</u>	

COC-3.DWG/03 817MCH



# **Field Data Sheets**



# CHEVRON WELL MONITORING DATA SHEET

Project #: <u>950925-A1</u>	Station #: <u>9-6991</u>
Sampler: <u>RV</u>	Start Date: <u>9-25-95</u>
Well I.D.: <u>MWI</u>	Well Diameter: (circle one) 2 3 4 6 <u>9/4</u>
Total Well Depth: Before <u>16.75</u> After	Depth to Water: Before <u>11.00</u> After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: <u>EVC</u>	Grade Other:

Well Diameter	VCF	Well Diameter	VCF
1"	0.104	6"	1.47
2"	0.156	8"	2.61
3"	0.317	10"	4.08
4"	0.633	12"	5.87
5"	1.022	16"	10.43

<u>2</u>	x	<u>3</u>	=	<u>.6</u>	gallons
1 Case Volume		Specified Volumes			

Flushing: <input type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input type="checkbox"/> Middleburg <input type="checkbox"/> Electric Submersible <input type="checkbox"/> Extraction Pump Other: <u>PIN</u>	Sampling: <input type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port Other: <u>PIN</u>
--	--

TIME	TEMP. (F)	PH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
1253	64.4	6.8	1500	—	.2	
1239	64.6	7.0	1300	—	.4	
1244	64.0	7.0	1200	—	.6	

Did Well Dewater? N If yes, gals.      Gallons Actually Evacuated: .6

Sampling Time: 1301      Sampling Date: 9-25-95

Sample I.D.: MWI      Laboratory: SEQ

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

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

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

# CHEVRON WELL MONITORING DATA SHEET

Project #: <u>950925-A1</u>	Station #: <u>9-6991</u>
Sampler: <u>RJ</u>	Start Date: <u>9-25-95</u>
Well I.D.: <u>MW2</u>	Well Diameter: (circle one) 2 3 4 6 <u>3/4</u>
Total Well Depth: Before <u>19.25</u> After	Depth to Water: Before <u>11.63</u> After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: <u>(PVC)</u>	Grade: Other:

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

<u>.3</u>	x	<u>3</u>	=	<u>.9</u>	gallons
1 Case Volume		Specified Volumes			

Purging: Bailer  
 Disposable Bailer  
 Middleburg  
 Electric Submersible  
 Extraction Pump  
 Other PIN

Sampling: Bailer  
 Disposable Bailer  
 Extraction Port  
 Other PIN

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
1019	64.6	6.8	1200	—	.3	
1026	64.4	7.2	1200	—	.6	
1032	63.4	7.3	1200	—	1.0	

Did Well Dewater? N If yes, gals. Gallons Actually Evacuated: 1.0

Sampling Time: 1047 Sampling Date: 9-25-95

Sample I.D.: MW2 Laboratory: SEQ

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

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

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

# CHEVRON WELL MONITORING DATA SHEET

Project #: <u>950925-A1</u>	Station #: <u>9-6991</u>
Sampler: <u>12V</u>	Start Date: <u>9-25-95</u>
Well I.D.: <u>MW3</u>	Well Diameter: (circle one) 2 3 4 6 <span style="border: 1px solid black; border-radius: 50%; padding: 2px;"><u>74</u></span>
Total Well Depth: Before <u>18.95</u> After	Depth to Water: Before <u>11.00</u> After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: <span style="border: 1px solid black; border-radius: 50%; padding: 2px;"><u>PVC</u></span>	Grade Other:

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

<u>3</u>	x	<u>3</u>	=	<u>9</u>
1 Case Volume		Specified Volumes		gallons

Purging: Bailer  
 Disposable Bailer  
 Middleburg  
 Electric Submersible  
 Extraction Pump  
 Other PIN

Sampling: Bailer  
 Disposable Bailer  
 Extraction Port  
 Other PIN

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
<u>1124</u>	<u>62.4</u>	<u>7.2</u>	<u>1000</u>	<u>—</u>	<u>.3</u>	
<u>1130</u>	<u>62.0</u>	<u>7.4</u>	<u>1000</u>	<u>—</u>	<u>.6</u>	
<u>1135</u>	<u>62.0</u>	<u>7.3</u>	<u>1000</u>	<u>—</u>	<u>.9</u>	

Did Well Dewater? N If yes, gals. Gallons Actually Evacuated: .9

Sampling Time: 1147 Sampling Date: 9-25-95

Sample I.D.: MW3 Laboratory: SEQ

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

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

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

# CHEVRON WELL MONITORING DATA SHEET

Project #: <u>950925-A1</u>	Station #: <u>9-6991</u>
Sampler: <u>RV</u>	Start Date: <u>9-25-95</u>
Well I.D.: <u>MW4</u>	Well Diameter: (circle one) <u>3</u> 4 6
Total Well Depth: Before <u>19.70</u> After _____	Depth to Water: Before <u>10.80</u> After _____
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Measurements referenced to: <u>SVC</u> Grade Other: _____	

Well Diameter	VCF	Well Diameter	VCF
1.5"	0.04	6"	1.47
2"	0.11	8"	2.61
3"	0.37	10"	4.08
4"	0.65	12"	6.87
5"	1.02	16"	10.43

$$\frac{1.4}{\text{1 Case Volume}} \times \frac{3}{\text{Specified Volume}} = \frac{4.2}{\text{gallons}}$$

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

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

TIME	TEMP. (F)	PH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
1206	63.0	7.4	880	—	1.5	
1209	61.6	7.3	920	—	<del>3.0</del>	
1212	61.8	7.3	920	✓	4.5	

Did Well Dewater? N If yes, gals. Gallons Actually Evacuated: 4.5

Sampling Time: 1216 Sampling Date: 9-25-95

Sample I.D.: MW4 Laboratory: SEQ.

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

Duplicate I.D.: \_\_\_\_\_ Cleaning Blank I.D.: \_\_\_\_\_

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

# CHEVRON WELL MONITORING DATA SHEET

Project #: <u>950925-A1</u>	Station #: <u>9-6991</u>
Sampler: <u>RV</u>	Start Date: <u>9-25-95</u>
Well I.D.: <u>MW5</u>	Well Diameter: (circle one) <u>(2)</u> 3 4 6
Total Well Depth: Before <u>19.42</u> After	Depth to Water: Before <u>9.85</u> After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: <u>PVC</u>	Grade Other:

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

<u>1.5</u>	x	<u>3</u>	=	<u>4.5</u>
1 Case Volume		Specified Volumes		gallons

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

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

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
<u>955</u>	<u>63.8</u>	<u>6.9</u>	<u>1000</u>	<u>—</u>	<u>1.5</u>	
<u>958</u>	<u>63.6</u>	<u>7.0</u>	<u>1000</u>	<u>—</u>	<u>3.0</u>	
<u>1000</u>	<u>63.4</u>	<u>7.0</u>	<u>970</u>	<u>—</u>	<u>4.5</u>	

Did Well Dewater? N If yes, gals. Gallons Actually Evacuated: 4.5

Sampling Time: 1006 Sampling Date: 9-25-95

Sample I.D.: MW5 Laboratory: SEQ

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

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

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

# CHEVRON WELL MONITORING DATA SHEET

Project #: <u>950925-A1</u>	Station #: <u>9-6991</u>
Sampler: <u>PV</u>	Start Date: <u>9-25-95</u>
Well I.D.: <u>MW7</u>	Well Diameter: (circle one) <u>(2)</u> 3 4 6
Total Well Depth: Before <u>19.77</u> After	Depth to Water: Before <u>11.60</u> After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to:	PVC      Grade      Other:

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

<u>1.3</u>	$\times$	<u>3</u>	$=$	<u>3.9</u>
1 Case Volume		Specified Volumes		gallons

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

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

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
1100	64.2	7.2	1300	—	1.5	
1103	64.0	7.4	1200	—	3.0	
1105	63.6	7.3	1200	—	4.0	

Did Well Dewater? N If yes, gals.      Gallons Actually Evacuated: 4.0

Sampling Time: 1113      Sampling Date: 9-25-95

Sample I.D.: MW7      Laboratory: SEA

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

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

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