



February 13, 1995

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

**Site Assessment & Remediation Group**  
Phone (510) 842-9500

Ms. Juliet Shin  
Alameda County Health Care Services  
Department of Environmental Health  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94501

**Re: Former Chevron Service Station #9-1153  
3126 Fernside Boulevard, Alameda, CA**

Dear Ms. Shin:

Enclosed is the First Quarter 1995 Groundwater Monitoring report dated February 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 (TPH-G) and BTEX. Benzene was detected in monitor wells MW-5, MW-6, and MW-7 at concentrations of 82, 12, and 57 ppb, respectively.

Monitor well MW-6 was also sampled for EPA Method 8010 constituents. Concentrations of these constituents were below method detection limits. **Separate phase hydrocarbons were detected in well C-1 at a measured thickness of 0.5 feet and removed by hand bailing.** Depth to ground water was measured at approximately 0.4 feet to 2.8 feet below grade and the direction of flow is to the east.

As we discussed in our meeting of January 26, 1995, I would like to meet with you in the near future to discuss appropriate site management strategies. I will phone you next week to discuss possible meeting times.

We will continue to monitor and sample all wells at this site on a quarterly basis. The ground water extraction system has been temporarily shut down due to a failed pressure regulator.

If you have any questions or comments, please do not hesitate to contact me at (510) 842-8134.

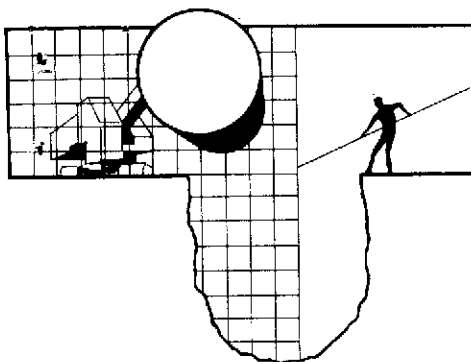
Sincerely,  
CHEVRON U.S.A. PRODUCTS COMPANY



Mark A. Miller  
Site Assessment and Remediation Engineer

Enclosure

cc: Mr. Mike Cooke - Weiss Associates  
Ms. B.C. Owen



# BLAINE TECH SERVICES INC.

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

Mark Miller  
Chevron U.S.A. Products Company  
2410 Camino Ramon  
San Ramon, CA 94583-0804

February 2, 1995

*2/16 - Conc. went down in most  
of the wells, other than  
in well C-6, possibly due  
to much shallower water  
level. Product was observed  
in well C-1, possibly due  
to the shut down of  
extraction system  
- JS*

## 1st Quarter 1995 Monitoring at 9-1153

First Quarter 1995 Groundwater Monitoring at  
Chevron Service Station Number 9-1153  
3126 Fernside Blvd.  
Alameda, CA

Monitoring Performed on January 12, 1995

### Groundwater Sampling Report 950112-J-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.

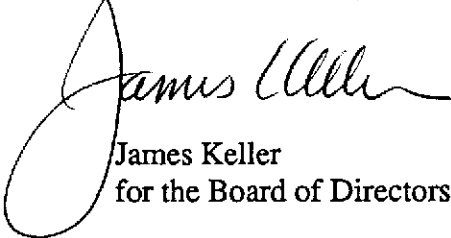
Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL DATA AND ANALYTICAL RESULTS**. The full analytical report for the most recent samples is located in the **Analytical Appendix**. The table also contains new groundwater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

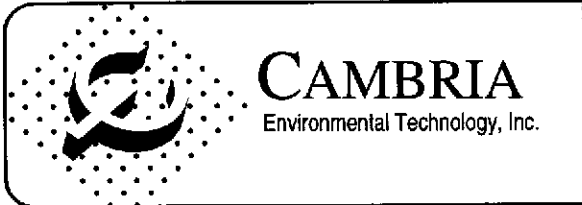
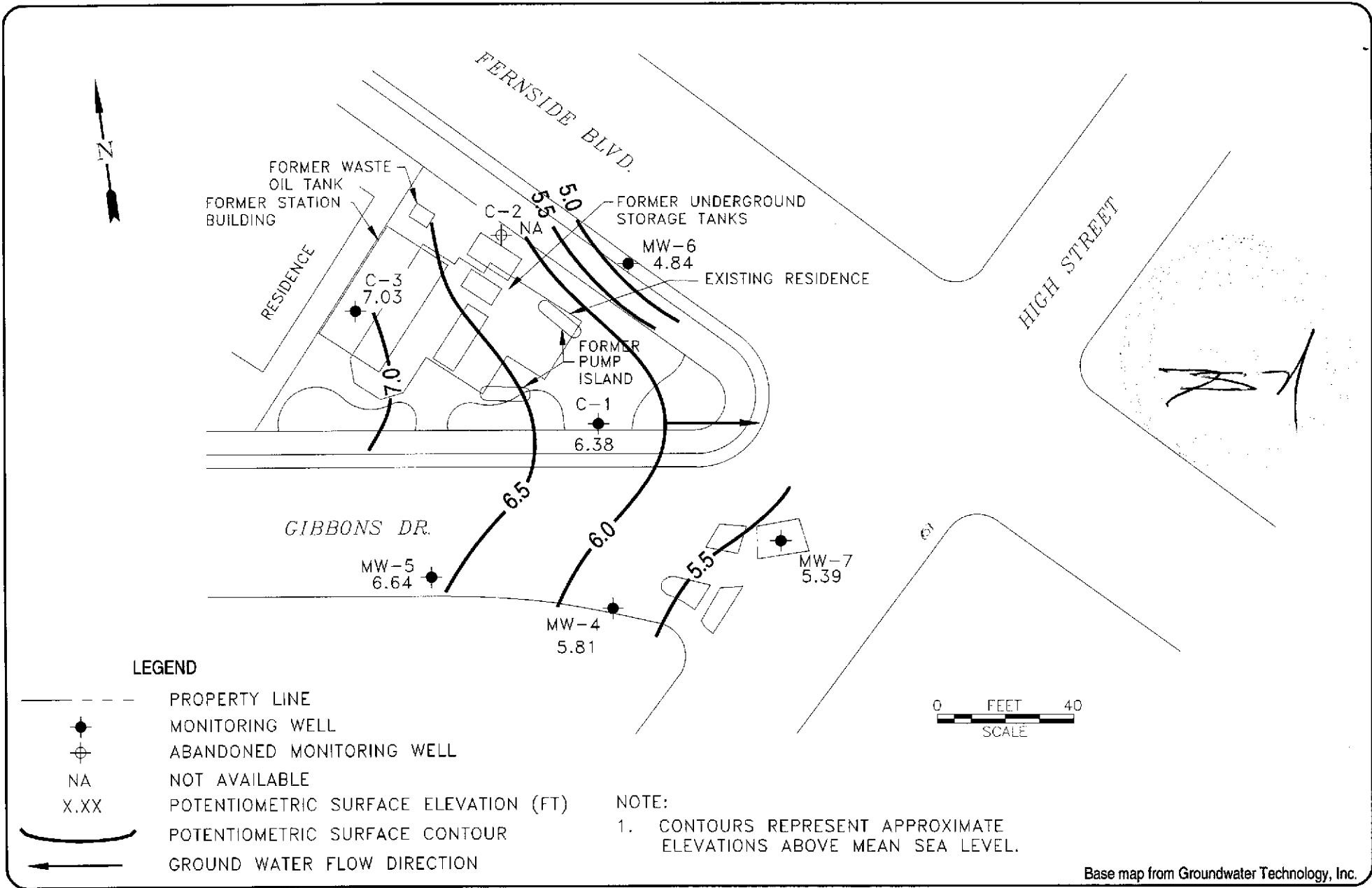


James Keller  
for the Board of Directors

JPK/dk

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

# **Professional Engineering Appendix**



Former Chevron Station 9-1153  
3126 Fernside Boulevard  
Alameda, California

VCHEVRON9-1153\1153-QM(1-Q95).DWG

Ground Water Elevation  
January 12, 1995

**FIGURE**  
**1**

**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	SPH Removed	Total SPH Removed	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	Other
<b>C-1</b>													
08/18/86	--	--	4.10	--	--	--	--	--	--	--	--	--	--
09/04/86	--	--	--	--	--	--	--	15,000	760	820	1500	--	--
07/22/87	--	--	--	--	--	--	--	1100	250	7.0	40	--	--
05/03/89	--	--	4.46	--	--	--	--	6900	3800	190	229	--	--
12/04/89	--	--	4.16	--	--	--	--	17,000	8000	490	470	--	--
02/14/90	--	--	3.64	--	--	--	--	19,000	12,000	990	1050	--	--
03/07/90	--	--	3.36	--	--	--	--	--	4260	261	430	--	--
09/06/91	--	--	4.43	--	--	--	--	21,000	10,000	100	240	560	--
12/15/91	--	--	4.78	--	--	--	--	20,000	4900	43	110	330	--
03/03/92	--	--	2.39	--	--	--	--	13,000	5800	730	340	1200	--
06/04/92	4.08	0.00	4.08	--	--	--	--	34,000	9400	350	290	1200	--
10/13/92	4.08	-0.67	4.75	--	--	--	--	24,000	11,000	98	280	530	--
01/11/93	4.08	1.82	2.26	Sheen	--	--	--	7100	1500	130	150	700	--
04/14/93	4.08	1.18	2.90	Sheen	--	--	--	29,000	7300	4000	640	2300	--
07/13/93	4.08	0.11	3.97	Sheen	--	--	--	650,000	27,000	18,000	6300	29,000	--
10/19/93	4.08	-0.42	4.50	--	--	--	--	40,000	12,000	730	1100	3600	--
11/30/93	7.50	3.23	4.27	--	--	--	--	--	--	--	--	--	--
01/27/94	7.50	4.15	3.35	--	--	--	--	36,000	8600	220	670	1900	--
04/07/94	7.50	4.08	3.42	--	--	--	--	53,000	12,000	3500	480	3300	--
07/01/94	7.50	3.54	3.96	--	--	--	--	65,000	19,000	5900	1000	9000	--
10/05/94	7.50	3.11	4.39	--	--	--	--	160,000	23,000	12,000	2200	11,000	--
01/12/95	7.50	6.38	1.52	0.50	0.26	0.26	--	--	--	--	--	--	--
<b>C-2</b>													
08/18/86	--	--	--	--	--	--	--	--	--	--	--	--	--
09/04/86	--	--	--	--	--	--	--	1100	49	18	84	--	--
07/22/87	--	--	--	--	--	--	--	<50	1.8	<1.0	<4.0	--	--
05/03/89	--	--	--	--	--	--	Abandoned	--	--	--	--	--	--

## 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	Other
<b>C-3</b>													
08/18/86	--	--	4.00	--	--	--	--	--	--	--	--	--	--
09/04/86	--	--	--	--	--	--	--	50	3.2	5.4	5.8	--	--
07/22/87	--	--	--	--	--	--	--	<50	<0.5	<1.0	<4.0	--	--
05/03/89	--	--	4.15	--	--	--	--	<50	<0.5	<1.0	<2.0	--	--
12/04/89	--	--	4.24	--	--	--	--	<250	<0.5	<0.5	<0.5	--	--
02/14/90	--	--	3.57	--	--	--	--	<50	<0.5	<0.5	<0.5	--	--
03/07/90	--	--	3.31	--	--	--	--	--	<5.0	<5.0	<5.0	--	--
09/06/91	--	--	4.59	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/15/91	--	--	4.84	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/03/92	--	--	2.17	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/04/92	4.41	0.40	4.01	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/13/92	4.41	-0.38	4.79	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/11/93	4.41	2.40	2.01	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/14/93	4.41	1.65	2.76	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/13/93	4.41	0.45	3.96	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
10/19/93	4.41	-0.12	4.53	--	--	--	--	66	12	1.4	1.0	8.4	--
11/30/93	7.83	3.79	4.04	--	--	--	--	--	--	--	--	--	--
01/27/94	7.83	4.66	3.17	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/07/94	7.83	4.63	3.20	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/01/94	7.83	3.84	3.99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/05/94	7.83	3.29	4.54	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/12/95	7.83	7.03	0.80	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--



## 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	Other
<b>MW-4</b>													
06/04/92	3.58	-0.05	3.63	--	--	--	--	<50	0.8	<0.5	<0.5	<0.5	--
10/13/92	3.58	--	--	--	--	--	--	--	--	--	--	--	--
01/11/93	3.58	1.69	1.89	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/14/93	3.58	1.38	2.20	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
07/13/93	3.58	0.07	3.51	--	--	--	--	54	2.6	1.6	<0.5	<1.5	--
10/19/93	3.58	-0.64	4.22	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
11/30/93	7.01	3.00	4.01	--	--	--	--	--	--	--	--	--	--
01/27/94	7.01	4.12	2.89	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/07/94	7.01	3.95	3.06	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/01/94	7.01	3.42	3.59	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/05/94	7.01	2.68	4.33	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/12/95	7.01	5.81	1.20	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--

## 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	Other
<b>MW-5</b>													
06/04/92	3.61	0.36	3.25	--	--	--	--	560	110	0.5	37	2.2	--
10/13/92	3.61	-0.59	4.20	--	--	--	--	1200	150	<2.5	84	8.6	--
01/11/93	3.61	2.31	1.30	--	--	--	--	1300	48	1.0	83	33	--
04/14/93	3.61	2.41	1.20	--	--	--	--	2600	240	6.1	250	170	--
07/13/93	3.61	0.46	3.15	--	--	--	--	1700	260	7.8	160	100	--
10/19/93	3.61	-0.21	3.82	--	--	--	--	1900	190	3.3	200	93	--
11/30/93	7.04	3.48	3.56	--	--	--	--	--	--	--	--	--	--
01/27/94	7.04	4.62	2.42	--	--	--	--	4000	100	12	210	110	--
04/07/94	7.04	4.71	2.33	--	--	--	--	2600	170	10	150	88	--
07/01/94	7.04	3.86	3.18	--	--	--	--	2300	350	9.1	110	76	--
10/05/94	7.04	3.06	3.98	--	--	--	--	11,000	840	150	130	340	--
01/12/95	7.04	6.64	0.40	--	--	--	--	2300	82	<2.5	54	20	--
<b>MW-6</b>													
06/04/92	3.85	-0.04	3.89	--	--	--	--	210	54	<0.5	1.9	2.4	--
10/13/92	3.85	-0.71	4.56	--	--	--	--	10,000	5300	<10	70	<10	--
01/11/93	3.85	1.49	2.36	--	--	--	--	100	50	<0.5	<0.5	<0.5	--
04/14/93	3.85	0.70	3.15	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/13/93	3.85	-0.09	3.94	--	--	--	--	<50	1.8	<0.5	<0.5	<1.5	--
10/19/93	3.85	-0.55	4.40	--	--	--	--	320	150	<0.5	0.8	<0.5	--
11/30/93	7.27	3.11	4.16	--	--	--	--	--	--	--	--	--	--
01/27/94	7.27	3.94	3.33	--	--	--	--	120	45	<0.5	<0.5	<0.5	--
04/07/94	7.27	3.84	3.43	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/01/94	7.27	3.33	3.94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/05/94	7.27	2.89	4.38	--	--	--	--	8300	2400	160	42	190	--
01/12/95	7.27	4.84	2.43	--	--	--	--	<50	12	<0.5	<0.5	<0.5	ND*

\* EPA 8010

## 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	Other
<b>MW-7</b>													
11/30/93	8.22	2.89	5.33	--	--	--	--	480	110	41	4.4	38	--
01/27/94	8.22	3.72	4.50	--	--	--	--	120	21	1.1	2.2	4.8	--
04/07/94	8.22	3.60	4.62	--	--	--	--	2600	630	39	56	94	--
07/01/94	8.22	3.09	5.13	--	--	--	--	2200	770	42	<10	92	--
10/05/94	8.22	2.61	5.61	--	--	--	--	15,000	3300	90	130	320	--
01/12/95	8.22	5.39	2.83	--	--	--	--	340	57	<1.3	18	6.4	--
<b>TMW-1</b>													
11/11/93	--	--	--	--	--	--	--	<1.0	<0.5	<0.5	<0.5	<0.5	--

## 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	Other
<b>TRIP BLANK</b>													
02/14/90	--	--	--	--	--	--	--	<50	<0.5	1.1	<0.5	<0.5	--
09/06/91	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/15/91	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/03/92	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/04/92	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/13/92	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/11/93	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/14/93	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/13/93	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/19/93	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
01/27/94	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/07/94	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/01/94	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/05/94	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/12/95	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--

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 = Seperate-Phase Hydrocarbons

# Analytical Appendix



Blaine Technical Services	Client Proj. ID: 950112-J1, Chevron 9-1153	Sampled: 01/12/95
985 Timothy Drive	Sample Descript: C-3	Received: 01/13/95
San Jose, CA 95133	Matrix: LIQUID	Analyzed: 01/19/95
Attention: Jim Keller	Analysis Method: 8015Mod/8020	Reported: 01/26/95
	Lab Number: 9501752-01	

QC Batch Number: GC011895BTEX02A  
Instrument ID: GCHP02

**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:		

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	74

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

**SEQUOIA ANALYTICAL** - ELAP #1210



Suzanne Chin  
Project Manager





Blaine Technical Services	Client Proj. ID: 950112-J1, Chevron 9-1153	Sampled: 01/12/95
985 Timothy Drive	Sample Descript: MW-4	Received: 01/13/95
San Jose, CA 95133	Matrix: LIQUID	
Attention: Jim Keller	Analysis Method: 8015Mod/8020	Analyzed: 01/19/95
	Lab Number: 9501752-02	Reported: 01/26/95

QC Batch Number: GC011895BTEX02A  
Instrument ID: GCHP02

### 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:		

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70                      130	79

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

**SEQUOIA ANALYTICAL** - ELAP #1210




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Suzanne Chin  
Project Manager





Blaine Technical Services 985 Timothy Drive San Jose, CA 95133 Attention: Jim Keller	Client Proj. ID: 950112-J1, Chevron 9-1153 Sample Descript: MW-5 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9501752-03	Sampled: 01/12/95 Received: 01/13/95 Analyzed: 01/19/95 Reported: 01/26/95
-----------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------

QC Batch Number: GC011995BTEX17A  
Instrument ID: GCHP17

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

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	250	2300
Benzene	2.5	82
Toluene	2.5	N.D.
Ethyl Benzene	2.5	54
Xylenes (Total)	2.5	20
Chromatogram Pattern:		Gas

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	104

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

**SEQUOIA ANALYTICAL** - ELAP #1210

Suzanne Chin  
Project Manager







Blaine Technical Services	Client Proj. ID: 950112-J1, Chevron 9-1153	Sampled: 01/12/95
985 Timothy Drive	Sample Descript: MW-6	Received: 01/13/95
San Jose, CA 95133	Matrix: LIQUID	
Attention: Jim Keller	Analysis Method: 8015Mod/8020	Analyzed: 01/19/95
	Lab Number: 9501752-04	Reported: 01/26/95

QC Batch Number: GC011995BTEX17A  
Instrument ID: GCHP17

### 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>12</b>
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern: Discrete Peak		C6-C7

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70                      130	84

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

**SEQUOIA ANALYTICAL** - ELAP #1210

Suzanne Chin  
Project Manager





Blaine Technical Services 985 Timothy Drive San Jose, CA 95133 Attention: Jim Keller	Client Proj. ID: 950112-J1, Chevron 9-1153 Sample Descript: MW-6 Matrix: LIQUID Analysis Method: EPA 8010 Lab Number: 9501752-04	Sampled: 01/12/95 Received: 01/13/95 Analyzed: 01/19/95 Reported: 01/26/95
-----------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------

QC Batch Number: GC011995801008A  
Instrument ID: GCHP8

**Halogenated Volatile Organics (EPA 8010)**

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon Tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	1.0	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.

**Surrogates**

1-Chloro-2-fluorobenzene

**Control Limits %**

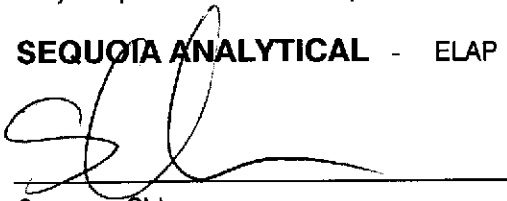
70 130

**% Recovery**

93

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

**SEQUOIA ANALYTICAL** - ELAP #1210



Suzanne Chin  
Project Manager





Blaine Technical Services 985 Timothy Drive San Jose, CA 95133 Attention: Jim Keller	Client Proj. ID: 950112-J1, Chevron 9-1153 Sample Descript: MW-7 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9501752-05	Sampled: 01/12/95 Received: 01/13/95 Analyzed: 01/19/95 Reported: 01/26/95
-----------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------

QC Batch Number: GC011995BTEX17A  
Instrument ID: GCHP17

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

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	130	340
Benzene	1.3	57
Toluene	1.3	N.D.
Ethyl Benzene	1.3	18
Xylenes (Total)	1.3	6.4
Chromatogram Pattern:		Gas

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	88

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

**SEQUOIA ANALYTICAL** - ELAP #1210

Suzanne Chin  
Project Manager





Blaine Technical Services	Client Proj. ID: 950112-J1, Chevron 9-1153	Sampled: 01/12/95
985 Timothy Drive	Sample Descript: TB	Received: 01/13/95
San Jose, CA 95133	Matrix: LIQUID	
Attention: Jim Keller	Analysis Method: 8015Mod/8020	Analyzed: 01/18/95
	Lab Number: 9501752-06	Reported: 01/26/95

QC Batch Number: GC011895BTEX02A  
Instrument ID: GCHP02

**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:		

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70                      130	77

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

**SEQUOIA ANALYTICAL** - ELAP #1210

Suzanne Chin  
Project Manager





# Sequoia Analytical

680 Chesapeake Drive Redwood City, CA 94063 (415) 364-9600 FAX (415) 364-9233  
 1900 Bates Avenue, Suite L Concord, CA 94520 (510) 686-9600 FAX (510) 686-9689  
 819 Striker Avenue, Suite 8 Sacramento, CA 95834 (916) 921-9600 FAX (916) 921-0100

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

Client Project ID: 950112-J1, Chevron 9-1153  
 Matrix: Liquid

Work Order #: 9501752 -01-02, 06

Reported: Jan 26, 1995

## QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC011895BTEX02A	GC011895BTEX02A	GC011895BTEX02A	GC011895BTEX02A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	J. Minkel	J. Minkel	J. Minkel	J. Minkel
MS/MSD #:	950164503	950164503	950164503	950164503
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	1/18/95	1/18/95	1/18/95	1/18/95
Analyzed Date:	1/18/95	1/18/95	1/18/95	1/18/95
Instrument I.D.#:	GCHP2	GCHP2	GCHP2	GCHP2
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	11	11	11	33
MS % Recovery:	110	110	110	110
Dup. Result:	11	11	11	32
MSD % Recov.:	110	110	110	107
RPD:	0.0	0.0	0.0	3.1
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 Control Limits	71-133	72-128	72-130	71-120
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**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

  
 Suzanne Chin  
 Project Manager

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

9501752.BLA <1>





Blaine Tech Services, Inc. 985 Timothy Drive San Jose, CA 95133 Attention: Jim Keller	Client Project ID: 950112-J1, Chevron 9-1153 Matrix: Liquid Work Order #: 9501752-03-05	Reported: Jan 26, 1995
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**QUALITY CONTROL DATA REPORT**

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC011995BTEX17A	GC011995BTEX17A	GC011995BTEX17A	GC011995BTEX17A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	J. Minkel	J. Minkel	J. Minkel	J. Minkel
MS/MSD #:	950172509	950172509	950172509	950172509
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	1/19/95	1/19/95	1/19/95	1/19/95
Analyzed Date:	1/19/95	1/19/95	1/19/95	1/19/95
Instrument I.D.#:	GCHP17	GCHP17	GCHP17	GCHP17
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	9.6	9.8	9.5	29
MS % Recovery:	96	98	95	97
Dup. Result:	10	10	10	30
MSD % Recov.:	100	100	100	100
RPD:	4.1	2.0	5.1	3.4
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				

**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**

*Suzanne Chin*  
Suzanne Chin  
Project Manager

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

9501752.BLA <2>





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

Client Project ID: 950112-J1, Chevron 9-1153  
Matrix: Liquid

Work Order #: 9501752-04

Reported: Jan 26, 1995

**QUALITY CONTROL DATA REPORT**

Analyte:	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene
QC Batch#:	GC011995801008A	GC011995801008A	GC011995801008A
Analy. Method:	EPA 8010	EPA 8010	EPA 8010
Prep. Method:	EPA 5030	EPA 5030	EPA 5030

Analyst:	A. Nagra	A. Nagra	A. Nagra
MS/MSD #:	950175204	950175204	950175204
Sample Conc.:	N.D.	N.D.	N.D.
Prepared Date:	1/19/95	1/19/95	1/19/95
Analyzed Date:	1/19/95	1/19/95	1/19/95
Instrument I.D.#:	GCHP8	GCHP8	GCHP8
Conc. Spiked:	25 µg/L	25 µg/L	25 µg/L

Result:	26	23	24
MS % Recovery:	104	92	96

Dup. Result:	27	25	26
MSD % Recov.:	108	100	104

RPD:	3.8	8.3	8.0
RPD Limit:	0-50	0-50	0-50

LCS #:	BLK011995	BLK011995	BLK011995
Prepared Date:	1/19/95	1/19/95	1/19/95
Analyzed Date:	1/19/95	1/19/95	1/19/95
Instrument I.D.#:	GCHP8	GCHP8	GCHP8
Conc. Spiked:	25 µg/L	25 µg/L	25 µg/L
LCS Result:	27	25	26
LCS % Recov.:	108	100	104

MS/MSD LCS Control Limits	28-167	35-146	38-150
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**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

**SEQUOIA ANALYTICAL**

  
Suzanne Chin  
Project Manager



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

**Chain-of-Custody-Record**

Chevron U.S.A. Inc. P.O. BOX 5004 San Ramon, CA 94583 FAX (415)842-9591	Chevron Facility Number <u>9-1153</u>	Chevron Contact (Name) <u>Mark Miller</u>
	Facility Address <u>3126 Fernside Blvd., Alameda, CA</u>	(Phone) <u>(510) 842-8134</u>
Consultant Project Number <u>95011201</u>	Consultant Name <u>Blaine Tech Services, Inc.</u>	Laboratory Name <u>Sequoia</u>
Address <u>985 Timothy Dr., San Jose, CA 95133</u>	Project Contact (Name) <u>Jim Keller</u>	Laboratory Release Number <u>2172740</u>
(Phone) <u>408 995-5535</u> (Fax Number) <u>408 293-8773</u>		Sample Collected by (Name) <u>JEAN GASTINEAU</u>
		Collection Date <u>1/12/95</u>
		Signature <u>Jim Keller</u>

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air 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
								STEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (8020)	Petroleum Hydrocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8040)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)				
C-3		3	W		10:15	HCL	Y	X											-01
MW-4		1			10:42														-02
MW-5		1			11:40														-03
MW-6		6			11:10						X								-04
MW-7		3			12:19														-05 11
T.B.		2																	-06

Relinquished By (Signature) <u>Jim Keller</u>	Organization <u>Blaine Tech Services</u>	Date/Time <u>1/13/95 10:55</u>	Received By (Signature) <u>Jim Keller</u>	Organization <u>Sequoia</u>	Date/Time <u>1-13 10:55</u>	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days 10 Days As Contracted
Relinquished By (Signature) <u>Jim Keller</u>	Organization <u>Sequoia</u>	Date/Time <u>1-13 11:37</u>	Received By (Signature) <u>Jim Keller</u>	Organization	Date/Time	
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature) <u>Mindob</u>		Date/Time <u>1/13/95 11:40</u>	

CX-3.DWG 03.917.mdx



# **Field Data Sheets**



# CHEVRON WELL MONITORING DATA SHEET

Project #: 950102J1	Station # 9-1153
Sampler: JG	Date Sampled: 1/12/95
Well I.D.: C-1	Well Diameter: (circle one) 2 <u>3</u> 4 6
Total Well Depth: Before — After	Depth to Water: Before 1.52 After
Depth to Free Product: 1.02	Thickness of Free Product (feet): .5
Measurements referenced to: <u>PVC</u>	Grade Other --

— FREE PRODUCT —

—	X	—	=	—
1 Case Volume		Specified Volumes		gallons

Purging: Bailer  
Middleburg  
Electric Submersible  
Suction Pump  
Type of Installed Pump \_\_\_\_\_

Sampling: Bailer  
Middleburg  
Electric Submersible  
Suction Pump  
Installed Pump

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
12:42				BAILED	1 GAL.	WATER +
				REMOVED	1 LIT.	FIP.

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

Sampling Time: .

Sample I.D.: C-1

Laboratory: SEQ.

Analyzed for:

Duplicate I.D.:

Cleaning Blank I.D.:

Analyzed for:

Shipping Notations:

Additional Notations:

# CHEVRON WELL MONITORING DATA SHEET

Project #: 950112J1	Station # 9-1153
Sampler: JG	Date Sampled: 1/12/95
Well I.D.: C-3	Well Diameter: (circle one) 2 <u>(3)</u> 4 6
Total Well Depth: Before 19.42 After	Depth to Water: Before 0.80 After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: <u>(PVC)</u> Grade Other --	

<u>6.8</u>	x	<u>3</u>	=	<u>20.4</u>
1 Case Volume		Specified Volumes		gallons

Purging: Bailer   
 Middleburg  
 Electric Submersible  
 Suction Pump  
 Type of Installed Pump \_\_\_\_\_

Sampling: Bailer   
 Middleburg  
 Electric Submersible  
 Suction Pump  
 Installed Pump \_\_\_\_\_

TIME	TEMP. (F)	PH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
9:56	55.8	8.0	600	—	7.	
10:04	56.8	8.0	500	—	14.	
10:11	57.2	8.0	550	—	21	

Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 21

Sampling Time: 10:15

Sample I.D.: C-3 Laboratory: SEQ

Analyzed for: TPHC, BTEX

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

Analyzed for: \_\_\_\_\_

Shipping Notations: \_\_\_\_\_

Additional Notations: LOCATED IN BACK YARD - HAD TO <sup>HAND</sup> BAIL

# CHEVRON WELL MONITORING DATA SHEET

Project #: 950112J1	Station # 9-1153
Sampler: JG	Date Sampled: 1/12/95
Well I.D.: MW-4	Well Diameter: (circle one) <u>2</u> 3 4 6
Total Well Depth: Before 13.38 After	Depth to Water: Before 1.20 After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: <u>PVC</u> Grade Other --	

<u>1.9</u>	$\times$	<u>3</u>	$=$	<u>5.7</u>
1 Case Volume		Specified Volumes		gallons

Purging: <del>Bailer</del> Middleburg Electric Submersible Suction Pump Type of Installed Pump _____	Sampling: <del>Bailer</del> Middleburg Electric Submersible Suction Pump Installed Pump _____
------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
10:36	58.4	7.8	1200	—	2.	
10:39	58.0	7.8	1200	—	4.	
10:40	59.0	8.0	1300	—	6.	

Did Well Dewater? NO If yes, gals.      Gallons Actually Evacuated: 6.

Sampling Time: <u>10:42</u>
Sample I.D.: <u>MW-4</u> Laboratory: <u>SEQ.</u>
Analyzed for: <u>TPH, BTEX</u>
Duplicate I.D.:      Cleaning Blank I.D.:
Analyzed for:
Shipping Notations:
Additional Notations:

# CHEVRON WELL MONITORING DATA SHEET

Project #: 9501 12 J1	Station # 9-1153
Sampler: JG	Date Sampled: 1/12/95
Well I.D.: MW-5	Well Diameter: (circle one) <u>2</u> 3 4 6
Total Well Depth: Before 13.25 After	Depth to Water: Before 0.40 After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to:	<input checked="" type="radio"/> PVC <input type="radio"/> Grade <input type="radio"/> Other --

2.0	x	3	=	6.0
1 Case Volume		Specified Volumes		gallons

Purging: Bailer <input checked="" type="checkbox"/> Middleburg Electric Submersible Suction Pump Type of Installed Pump _____	Sampling: Bailer <input checked="" type="checkbox"/> Middleburg Electric Submersible Suction Pump Installed Pump
-------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
11:37	59.4	7.4	1000	—	2.1	
11:40	58.8	7.5	950	—	4.1	ODOR
11:45	59.2	7.5	900	—	6.1	

Did Well Dewater? NO If yes, gals.      Gallons Actually Evacuated: 6.1

Sampling Time: 11:46

Sample I.D.: MW-5      Laboratory: SEQ

Analyzed for: TPH, BTEX

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

Analyzed for:

Shipping Notations:

Additional Notations:

# CHEVRON WELL MONITORING DATA SHEET

Project #: 9501201	Station # 9-1153
Sampler: JG	Date Sampled: 1/12/85
Well I.D.: MW-6	Well Diameter: (circle one) <u>2</u> 3 4 6
Total Well Depth: Before 14.22 After	Depth to Water: Before 2.43 After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: <u>PVC</u>	Grade Other --

<u>1.8</u>	x	<u>3</u>	=	<u>5.4</u>
1 Case Volume		Specified Volumes		gallons

Purging: Bailer   
 Middleburg  
 Electric Submersible  
 Suction Pump  
 Type of Installed Pump \_\_\_\_\_

Sampling: Bailer   
 Middleburg  
 Electric Submersible  
 Suction Pump  
 Installed Pump

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
11:04	59.8	7.6	1000	—	2.	
11:07	59.2	7.7	1000	—	4.	
11:09	59.4	7.7	1000	—	6.	

Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 6.

Sampling Time: 11:10

Sample I.D.: MW-6 Laboratory: SEQ.

★ Analyzed for: TPHG, BTEX, EPA 8010

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

Analyzed for: \_\_\_\_\_

Shipping Notations: \_\_\_\_\_

Additional Notations: \_\_\_\_\_

# CHEVRON WELL MONITORING DATA SHEET

Project #: 95011251	Station # 9-1153
Sampler: JG	Date Sampled: 1/12/95
Well I.D.: MW-7	Well Diameter: (circle one) <u>2</u> 3 4 6
Total Well Depth: Before 14.66 After	Depth to Water: Before 2.83 After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to:	<input checked="" type="radio"/> PVC <input type="radio"/> Grade <input type="radio"/> Other --

<u>1.9</u>	x	<u>3</u>	=	<u>5.7</u>
1 Case Volume		Specified Volumes		gallons

Purging: ~~Bailer~~  
 Middleburg  
 Electric Submersible  
 Suction Pump  
 Type of Installed Pump \_\_\_\_\_

Sampling: ~~Bailer~~  
 Middleburg  
 Electric Submersible  
 Suction Pump  
 Installed Pump \_\_\_\_\_

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
12:06	60.6	7.4	1000	—	2.	odor
12:09	61.8	7.5	950	—	4.	
12:11	63.0	7.5	950	—	6.	

Did Well Dewater? No If yes, gals.      Gallons Actually Evacuated: 6

Sampling Time: 12:19

Sample I.D.: MW-7      Laboratory: SEQ.

Analyzed for: TPAS, BTEX

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

Analyzed for:

Shipping Notations:

Additional Notations: