

ENVIRONMENTAL  
PROTECTION

96 JUL 23 PM 3:19



**Chevron**

July 23, 1996

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

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

**Marketing – Northwest Region**  
Phone 510 842 9500

Re: **Former Chevron Service Station #9-5630**  
**997 Grant Avenue, San Lorenzo, California**

Dear Ms. Shin.

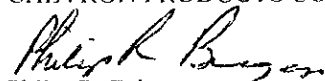
Enclosed is the First and Second Quarter Groundwater Monitoring Reports for 1996, that were prepared by our consultant Blaine Tech Services Inc. for the above noted site. I apologize for the delay in submittal of the First Quarter Report and future reports will be submitted in a timely manner. Ground water samples were collected and analyzed for TPH-g, BTEX and MTBE constituents.

Samples were not taken from monitoring well C-3 in the First or Second Quarters, as Blaine Tech could not locate the well on the site. I have done some research on what happened to this well and determined that it last sampled by Sierra Environmental Services (Sierra) in June of 1993. When Sierra returned to sample the well in September of 1993, the well was covered by soil in a 25 foot x 25 foot x 6" pattern. The technician for Sierra tried to locate the well with a shovel but was unable to find it. They thought it may have been damaged by the activity that had occurred on the site. Blaine Tech advised me that they had excavated a 10 foot square area around the presumed location of the monitoring well in October of 1995, but was unable to locate it. I asked Sierra to send me the survey data when they installed the wells and this information I have just received and it will be sent to Blaine Tech to determine the location of monitoring well C-3. I would expect to have an answer in the next quarterly report; if the monitoring well C-3 is still there and able to sample, or that it was cut off because of construction activity and the well has to be closed.

Concentrations of benzene were not detected in any of the monitoring wells in the First Quarter Report. Depth to ground water varied from 16.01 feet to 16.81 feet below grade and with the direction of flow to the southwest. In the Second Quarter Report, concentrations of benzene were detected in one monitoring well, C-6 in the amount of 0.84ppb. Depth to ground water varied from 14.88 feet to 15.13 feet below grade with direction of flow to the south southeast.

Chevron request that monitoring wells C-1, C-5 and C-7 be sampled semiannually, instead of quarterly. All of the wells have been non detect for BTEX constituents for at least the last four quarters. Chevron will continue to monitor the remaining wells quarterly. If you have any questions, call me at (510) 842-9136.

Sincerely,  
CHEVRON PRODUCTS COMPANY

  
Philip R. Briggs

Site Assessment and Remediation Project Manager

cc. Ms. Bette Owen, Chevron

ENVIRONMENTAL  
PROTECTION  
96 JUL 29 PM 3:19

April 5, 1996

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

**1st Quarter 1996 Monitoring at 9-5630**

First Quarter 1996 Groundwater Monitoring at  
Chevron Service Station Number 9-5630  
997 Grant Avenue  
San Lorenzo, CA

Monitoring Performed on March 8, 1996

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**Groundwater Sampling Report 960308-T-2**

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.

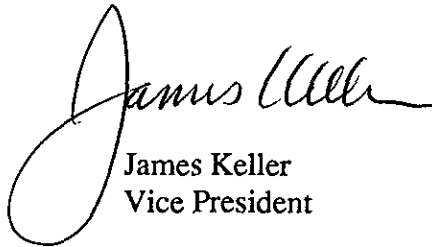
Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL DATA AND ANALYTICAL RESULTS**. The full analytical report for the most recent samples is located in the **Analytical Appendix**. The table also contains new groundwater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

JPK/dk

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.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	TOG	MTBE
<b>C-1</b>											
12/05/90	24.08	11.64	12.44	--	<50	<0.5	<0.5	<0.5	<0.5	<5000	--
09/06/91	23.88	10.68	13.20	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/04/91	23.88	12.17	11.71	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/02/92	23.88	14.45	9.43	--	<50	<0.5	<0.5	<0.5	<0.5	<5000	--
06/03/92	23.88	13.74	10.14	--	<50	1.4	1.5	0.6	3.0	--	--
09/02/92	23.88	12.09	11.79	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/01/92	23.88	12.10	11.78	--	<50	0.6	3.5	0.7	3.4	--	--
03/23/93	23.88	15.94	7.94	--	<250	13	8.7	<2.5	10	--	--
06/15/93	23.88	14.49	9.39	--	74	1.4	5.2	1.6	11	--	--
09/07/93	23.88	13.16	10.72	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
11/30/94	23.88	14.80	9.08	--	--	--	--	--	--	--	--
02/01/95	23.88	16.57	7.31	--	--	--	--	--	--	--	--
09/13/95	23.88	13.86	10.02	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/29/95	23.88	14.88	9.00	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
03/08/96	23.88	16.81	7.07	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
<b>C-2</b>											
12/05/90	22.69	11.39	11.30	--	<50	0.7	<0.5	<0.5	0.5	--	--
09/06/91	21.54	10.54	11.00	--	<50	1.3	0.6	0.7	1.5	--	--
12/04/91	21.54	12.16	9.38	--	--	--	--	--	--	--	--
04/02/92	21.54	14.21	7.33	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/03/92	21.54	12.55	8.99	--	180	12	13	7.9	21	--	--
09/02/92	21.54	11.95	9.59	--	630	14	30	18	54	--	--
12/01/92	21.54	11.96	9.58	--	1000	47	83	51	150	--	--
03/23/93	21.54	15.24	6.30	--	80	5.0	7.9	6.0	18	--	--
06/15/93	21.54	14.27	7.27	--	220	9.0	16	12	37	--	--
09/07/93	21.54	12.99	8.55	--	200	13	21	15	43	--	--
09/13/95	21.54	7.86	13.68	--	<50	<0.5	0.60	0.84	2.3	--	--
12/29/95	21.54	14.52	7.02	--	<50	2.7	<0.5	<0.5	<0.5	--	<2.5
03/08/96	21.54	16.08	5.46	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	TOG	MTBE
<b>C-3</b>											
12/05/90	23.45	11.70	11.75	--	<50	1.0	0.7	<0.5	<0.5	--	--
09/06/91	22.40	10.78	11.62	--	1100	150	0.6	51	1.9	--	--
12/04/91	22.40	12.26	10.14	--	89	<0.5	<0.5	0.7	0.6	--	--
04/02/92	22.40	14.33	8.07	--	60	2.1	1.3	1.1	3.2	--	--
06/03/92	22.40	13.77	8.63	--	7600	94	86	26	89	--	--
09/02/92	22.40	12.10	10.30	--	<50	<0.5	<0.5	<0.5	0.9	--	--
12/01/92	22.40	12.16	10.24	--	54	0.8	5.7	1.1	5.9	--	--
03/23/93	22.40	15.57	6.83	--	<50	1.1	1.4	<0.5	1.7	--	--
06/15/93	22.40	14.45	7.95	--	67	1.3	3.9	1.1	7.8	--	--
09/07/93	22.40	--	--	Inaccessible	--	--	--	--	--	--	--
09/13/95	22.40	--	--	Inaccessible	--	--	--	--	--	--	--
12/29/95	22.40	--	--	Inaccessible	--	--	--	--	--	--	--
03/08/96	22.40	--	--	Inaccessible	--	--	--	--	--	--	--
<b>C-4</b>											
12/05/90	23.32	11.47	11.85	--	<50	4.0	2.0	0.7	3.0	--	--
09/06/91	--	--	--	Well destroyed	--	--	--	--	--	--	--
<b>C-5</b>											
02/16/93	22.01	15.37	6.64	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/23/93	22.01	15.41	6.60	--	<50	1.5	0.9	<0.5	<1.5	--	--
06/15/93	22.01	13.91	8.10	--	70	0.7	1.7	<0.5	2.8	--	--
09/07/93	22.01	12.61	9.40	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
11/30/94	22.01	14.25	7.76	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/01/95	22.01	15.94	6.07	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/13/95	22.01	13.29	8.72	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/29/95	22.01	14.31	7.70	--	<50	<0.5	<0.5	<0.5	<0.5	--	7.3
03/08/96	22.01	16.14	5.87	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	TOG	MTBE
<b>C-6</b>											
08/17/94	21.42	5.40	16.02	--	430	0.7	2.7	<0.5	28	--	--
11/30/94	21.42	14.16	7.26	--	610	2.1	0.57	30	14	--	--
02/01/95	21.42	14.77	6.65	--	210	<0.5	<0.5	<0.5	0.94	--	--
09/13/95	21.42	13.64	7.78	--	860	4.6	<0.5	40	0.52	--	--
12/29/95	21.42	14.63	6.79	--	1900	7.4	<2.5	86	<2.5	--	2.0
03/08/96	21.42	16.01	5.41	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5

*Levels could've gone down due to shallower water.*

<b>C-7</b>											
08/17/94	23.21	13.14	10.07	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/30/94	23.21	14.73	8.48	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/01/95	23.21	15.99	7.22	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/13/95	23.21	13.71	9.50	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/29/95	23.21	14.77	8.44	--	<50	<0.5	<0.5	<0.5	<0.5	--	4.4
03/08/96	23.21	16.15	7.06	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5

### BAILER BLANK

09/06/91	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/04/91	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/02/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/03/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/02/92	--	--	--	--	<50	<0.5	<0.5	<0.5	0.4	--	--
12/01/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/23/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/15/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
09/07/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--



## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	TOG	MTBE
<b>TRIP BLANK</b>											
12/05/90	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/06/91	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/04/91	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/02/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/03/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/02/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/01/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/23/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/15/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
09/07/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
11/30/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/01/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/13/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/29/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/08/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5

Note: Blaine Tech Services, Inc. began routine monitoring of the groundwater wells at this site on September 13, 1995. Earlier field data and analytical results are drawn from the March 1, 1995 Sierra Environmental Services report.

**ABBREVIATIONS:**

TPH = Total Petroleum Hydrocarbons

ND = Not detected at or above the minimum quantitation limit. See laboratory reports for minimum quantitation limits.

TOG = Total Oil & Grease

MTBE = Methyl t-butyl ether

# Analytical Appendix



Blaine Technical Services  
985 Timothy Drive  
San Jose, CA 95133

Client Proj. ID: Chevron 9-5630/960308-F2  
Sample Descript: C1  
Matrix: LIQUID  
Analysis Method: 8015Mod/8020  
Lab Number: 9603629-01

Sampled: 03/08/96  
Received: 03/11/96  
Analyzed: 03/13/96  
Reported: 03/14/96

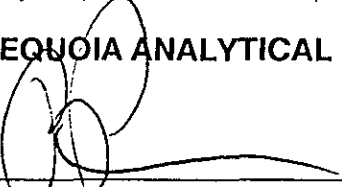
QC Batch Number: GC031396BTEX21A  
Instrument ID: GCHP21

**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>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	95 <i>OK</i>

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 9-5630/960308-F2 Sampled: 03/08/96  
985 Timothy Drive Sample Descript: C2 Received: 03/11/96  
San Jose, CA 95133 Matrix: LIQUID  
Attention: Jim Keller Analysis Method: 8015Mod/8020 Analyzed: 03/13/96  
Lab Number: 9603629-02 Reported: 03/14/96

QC Batch Number: GC031396BTEX21A  
Instrument ID: GCHP21

**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	104 ✓

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 9-5630/960308-F2 Sample Descript: C5 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9603629-03	Sampled: 03/08/96 Received: 03/11/96 Analyzed: 03/13/96 Reported: 03/14/96
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QC Batch Number: GC031396BTEX21A  
Instrument ID: GCHP21

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

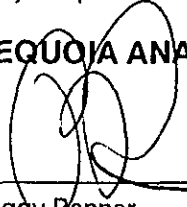
Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70                      130	100 ✓

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

SEQUOIA ANALYTICAL - ELAP #1210




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Peggy Denner  
Project Manager





Blaine Technical Services	Client Proj. ID: Chevron 9-5630/960308-F2	Sampled: 03/08/96
985 Timothy Drive	Sample Descript: C6	Received: 03/11/96
San Jose, CA 95133	Matrix: LIQUID	
Attention: Jim Keller	Analysis Method: 8015Mod/8020	Analyzed: 03/13/96
	Lab Number: 9603629-04	Reported: 03/14/96

QC Batch Number: GC031396BTEX21A  
Instrument ID: GCHP21

**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>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	74 ✓

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 9-5630/960308-F2 Sample Descript: C7 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9603629-05	Sampled: 03/08/96 Received: 03/11/96 Analyzed: 03/13/96 Reported: 03/14/96
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QC Batch Number: GC031396BTEX21A  
Instrument ID: GCHP21

**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>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70                      130	77 <i>ck</i>

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 9-5630/960308-F2  
Sample Descript: TB  
Matrix: LIQUID  
Analysis Method: 8015Mod/8020  
Lab Number: 9603629-06

Sampled: 03/08/96  
Received: 03/11/96  
Analyzed: 03/13/96  
Reported: 03/14/96

Attention: Jim Keller

QC Batch Number: GC031396BTEX21A  
Instrument ID: GCHP21

**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>	<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







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

Client Project ID: Chevron 9-5630/960308-F2  
Matrix: Liquid

Work Order #: 9603629 -01 -06

Reported: Mar 19, 1996

### QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC031396BTEX21A	GC031396BTEX21A	GC031396BTEX21A	GC031396BTEX21A
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 #:	G9603139-01D	G9603139-01D	G9603139-01D	G9603139-01D
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/13/96	3/13/96	3/13/96	3/13/96
Analyzed Date:	3/13/96	3/13/96	3/13/96	3/13/96
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21
Conc. Spiked:	10 ug/L	10 ug/L	10 ug/L	30 ug/L

Result:	9.5	8.9	8.2	25
MS % Recovery:	95	89	82	83

Dup. Result:	10	9.7	9.5	29
MSD % Recov.:	100	97	95	97

RPD:	5.1	8.6	15	15
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:	GBLK031396B	GBLK031396B	GBLK031396B	GBLK031396B
Prepared Date:	3/13/96	3/13/96	3/13/96	3/13/96
Analyzed Date:	3/13/96	3/13/96	3/13/96	3/13/96
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21
Conc. Spiked:	10 ug/L	10 ug/L	10 ug/L	30 ug/L
LCS Result:	10	10	10	32
LCS % Recov.:	100	100	100	107

MS/MSD LCS Control Limits	70-130	70-130	70-130	70-130
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SEQUOIA ANALYTICAL

Reggy 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

9603629.BLA <1>



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

# Chain-of-Custody-Record

Chevron Facility Number 9-5630  
 Facility Address 997 Grant Ave., San Lorenzo CA  
 Consultant Project Number 910308-FI  
 Consultant Name Blaine Tech Services, Inc.  
 Address 985 Timothy Dr., San Jose, CA 95133  
 Project Contact (Name) Jim Keller  
 (Phone) 408 995-5535 (Fax Number) 408 293-8773

Chevron Contact (Name) Mark Miller  
 (Phone) (510) 842-8134  
 Laboratory Name Sequoia  
 Laboratory Release Number 2268280  
 Samples Collected by (Name) Mike Tall  
 Collection Date 3-8-96  
 Signature Mike Tall

96-03-629

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)	Analytes To Be Performed										DO NOT BILL FOR TB-LB	Remarks					
								BTX + TPH GAS, MTBE (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8242)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)									
C1		3	W		11:20	HCL	Y	X																
C2		3	W		11:45	HCL	Y	X																
C5		3	W		10:25	HCL	Y	X																
C6		3	W		12:05	HCL	Y	X																
C7		3	W		10:45	HCL	Y	X																
TB		2	W			HCL	Y	X																

Relinquished By (Signature) <u>Mike Tall</u>	Organization <u>BTS</u>	Date/Time <u>3-11-96 1020</u>	Received By (Signature) <u>Michael Heise</u>	Organization <u>Sequoia</u>	Date/Time <u>3-11-96 1020</u>	Turn Around Time (Circle Choice) <input type="checkbox"/> 24 Hrs. <input type="checkbox"/> 48 Hrs. <input type="checkbox"/> 5 Days <input checked="" type="checkbox"/> 10 Days <input type="checkbox"/> As Contracted
Relinquished By (Signature) <u>Michael Heise</u>	Organization	Date/Time <u>3-11-96 1115</u>	Received By (Signature)	Organization	Date/Time	
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature) <u>Tommy McMahon (Sequoia)</u>	Organization <u>(Sequoia)</u>	Date/Time <u>3/11/96</u>	

COC-3.DWG/03-91/ACH

# **Field Data Sheets**



# CHEVRON WELL MONITORING DATA SHEET

Project #: 960308-T2	Station #: 9-5630
Sampler: MT	Start Date: 3/8
Well I.D.: C1	Well Diameter: (circle one) ② 3 4 6
Total Well Depth: Before 27.35 After	Depth to Water: Before 7.07 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>3.3</u>	x	<u>3</u>	=	<u>9.9</u>
1 Case Volume		Specified Volumes		gallons

Purging: Bailer Disposable Bailer <input checked="" type="checkbox"/> Middleburg Electric Submersible Extraction Pump Other _____	Sampling: Bailer Disposable Bailer <input checked="" type="checkbox"/> Extraction Port Other _____
--	---

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
10:58	66.6	6.7	1300	—	35	✓
11:04	66.6	6.7	1400	—	7	
11:10	66.6	6.8	1400	—	10	

Did Well Dewater? <u>NO</u> If yes, gals.	Gallons Actually Evacuated: <u>10</u>
Sampling Time: <u>11:20</u>	Sampling Date: <u>3/8</u>
Sample I.D.: <u>C1</u>	Laboratory: <u>SEB</u>
Analyzed for: <u>TPH-G BTEX</u> TPH-D OTHER:	(Circle)
Duplicate I.D.:	Cleaning Blank I.D.:
Analyzed for: <u>TPH-G BTEX</u> TPH-D OTHER:	(Circle)

# CHEVRON WELL MONITORING DATA SHEET

Project #: <u>960308-T2</u>	Station #: <u>9-5630</u>
Sampler: <u>MT</u>	Start Date: <u>3/8</u>
Well I.D.: <u>C2</u>	Well Diameter: (circle one) <u>2</u> 3 4 6
Total Well Depth: Before <u>24.55</u> After	Depth to Water: Before <u>5.46</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>3.1</u>	$\times$	<u>3</u>	$=$	<u>9.3</u>
1 Case Volume		Specified Volumes		gallons

Purging: Bailer Disposable Bailery Middleburg Electric Submersible Extraction Pump Other _____	Sampling: Bailer Disposable Bailery Extraction Port Other _____
---	--

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
<u>11:31</u>	<u>67.4</u>	<u>6.4</u>	<u>1300</u>	<u>-</u>	<u>3.5</u>	✓
<u>11:35</u>	<u>67.1</u>	<u>6.4</u>	<u>1300</u>	<u>-</u>	<u>7</u>	
<u>11:39</u>	<u>66.2</u>	<u>6.4</u>	<u>1300</u>	<u>-</u>	<u>9.5</u>	

Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 9.5

Sampling Time: 11:45 Sampling Date: 3/8

Sample I.D.: C2 Laboratory: SEU

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>960308-T2</u>	Station #: <u>9-5630</u>
Sampler: <u>MT</u>	Start Date: <u>3/8</u>
Well I.D.: <u>05</u>	Well Diameter: (circle one) <u>3</u> 4 6
Total Well Depth: Before <u>18.70</u> After	Depth to Water: Before <u>5.87</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>2.1</u>	$\times$	<u>3</u>	$=$	<u>6.3</u>
1 Case Volume		Specified Volumes		gallons

Purging: Bailer Disposable Bailer <input checked="" type="checkbox"/> Middleburg Electric Submersible Extraction Pump Other _____	Sampling: Bailer Disposable Bailer <input checked="" type="checkbox"/> Extraction Port Other _____
--	---

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
10:12	<u>66.0</u>	<u>6.2</u>	<u>1500</u>	-	<u>2.25</u>	
10:15	<u>67.9</u>	<u>6.4</u>	<u>1400</u>	-	<u>4.50</u>	✓
10:18	<u>68.0</u>	<u>6.4</u>	<u>1400</u>	-	<u>6.50</u>	

Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 6.5

Sampling Time: 10:25 Sampling Date: 3/8

Sample I.D.: 05 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>960308-T2</u>	Station #: <u>9-5630</u>
Sampler: <u>MT</u>	Start Date: <u>3/8</u>
Well I.D.: <u>CG</u>	Well Diameter: (circle one) <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> _____
Total Well Depth: Before <u>17.86</u> After _____	Depth to Water: Before <u>5.41</u> 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: _____	

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>2.0</u>	x	<u>3</u>	=	<u>6.0</u>
1 Case Volume		Specified Volumes		gallons

Purging: Bailer Disposable Bailer <input checked="" type="checkbox"/> Middleburg Electric Submersible Extraction Pump Other _____	Sampling: Bailer Disposable Bailer <input checked="" type="checkbox"/> Extraction Port Other _____
--	---

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
<u>11:53</u>	<u>67.2</u>	<u>6.4</u>	<u>1500</u>	<u>-</u>	<u>2</u>	
<u>11:56</u>	<u>66.6</u>	<u>6.4</u>	<u>1500</u>	<u>-</u>	<u>4</u>	<input checked="" type="checkbox"/>
<u>11:59</u>	<u>65.0</u>	<u>6.4</u>	<u>1600</u>	<u>-</u>	<u>6</u>	

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

Sampling Time: 12:05 Sampling Date: 3/8

Sample I.D.: CG Laboratory: SEL

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>960308-T2</u>	Station #: <u>9-5630</u>
Sampler: <u>MT</u>	Start Date: <u>3/8</u>
Well I.D.: <u>07</u>	Well Diameter: (circle one) <u>2</u> 3 4 6
Total Well Depth: Before <u>16.67</u> After	Depth to Water: Before <u>7.06</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>	$\times$	<u>3</u>	$=$	<u>4.5</u>
1 Case Volume		Specified Volumes		gallons

Purging: Bailer Disposable Bailer <input checked="" type="checkbox"/> Middleburg Electric Submersible Extraction Pump Other _____	Sampling: Bailer Disposable Bailer <input checked="" type="checkbox"/> Extraction Port Other _____
--	---

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
10:33	64.1	6.3	1300	—	1.5	
10:36	64.6	6.3	1300	—	3	✓
10:39	64.5	6.2	1300	—	4.5	

Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 4.5

Sampling Time: 10:45 Sampling Date: 3/8

Sample I.D.: 07 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)