



**Chevron**

August 16, 1995

**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

~~MS. JILL SHIN~~

Alameda Co. Dept. of Environmental Health  
1131 Harbor Bay Pkwy, 2nd Floor  
Alameda, CA 94502-6577

**Marketing -- Northwest Region**

Phone 510 842 9500

Re : Chevron Service Station 9-6607  
2340 Otis Dr., Alameda, California

Dear Ms. Shin :

The enclosed report from Blaine Tech Services dated August 14, 1995 documents the July 13, 1995 monitoring and sampling event. The results from this event continue to show non-detectable levels of total petroleum hydrocarbon as gasoline, benzene, toluene, ethylbenzene, and xylene, all constituents of gasoline. However, MTBE (Methyl t-Butyl Ether) was detected in monitoring wells MW-1 and MW-2. The source of MTBE is unknown.

With this letter, Chevron will inform the dealer of the situation. Hopefully, the dealer can provide some information. In the meantime, Chevron will continue to monitor and sample the wells.

If you have any questions or comments, please feel free to give me a call at (510) 842-8752.

Sincerely,  
Chevron U.S.A. Products Co.

Kenneth Kan  
Engineer

LKAN/96607R01

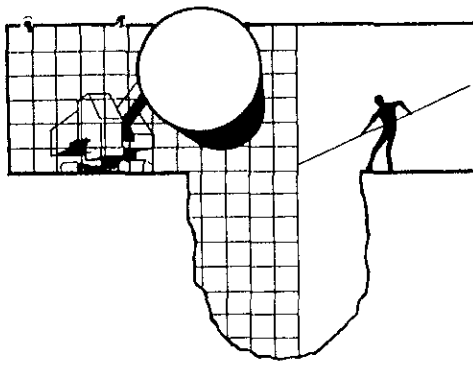
Enclosure

cc : ~~Mr. Wayne Weber, R/W QCB-San Francisco Bay Region~~  
2101 Webster St., Suite 500, Oakland, CA 94612

Mr. Wayne Weber, Chevron Station 9-6607  
2340 Otis Dr., Alameda, CA 94501

Ms. Patsy Tarabini, Territory Manager  
155 Castro St., Richmond, CA 94802

Ms. Bette Owen, Chevron USA Products Co.



# BLAINE TECH SERVICES INC.

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

August 14, 1995

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

## 3rd Quarter 1995 Monitoring at 9-6607

Third Quarter 1995 Groundwater Monitoring at  
Chevron Service Station Number 9-6607  
2340 Otis Drive  
Alameda, CA

*Monitoring Performed on July 13, 1995*

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### Groundwater Sampling Report 950713-K-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.

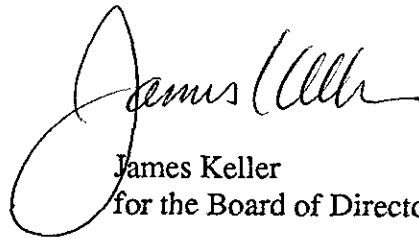
Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL DATA AND ANALYTICAL RESULTS**. The full analytical report for the most recent samples is located in the **Analytical Appendix**. The table also contains new groundwater 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 black ink, appearing to read "James Keller". The signature is fluid and cursive, with a large loop at the beginning.

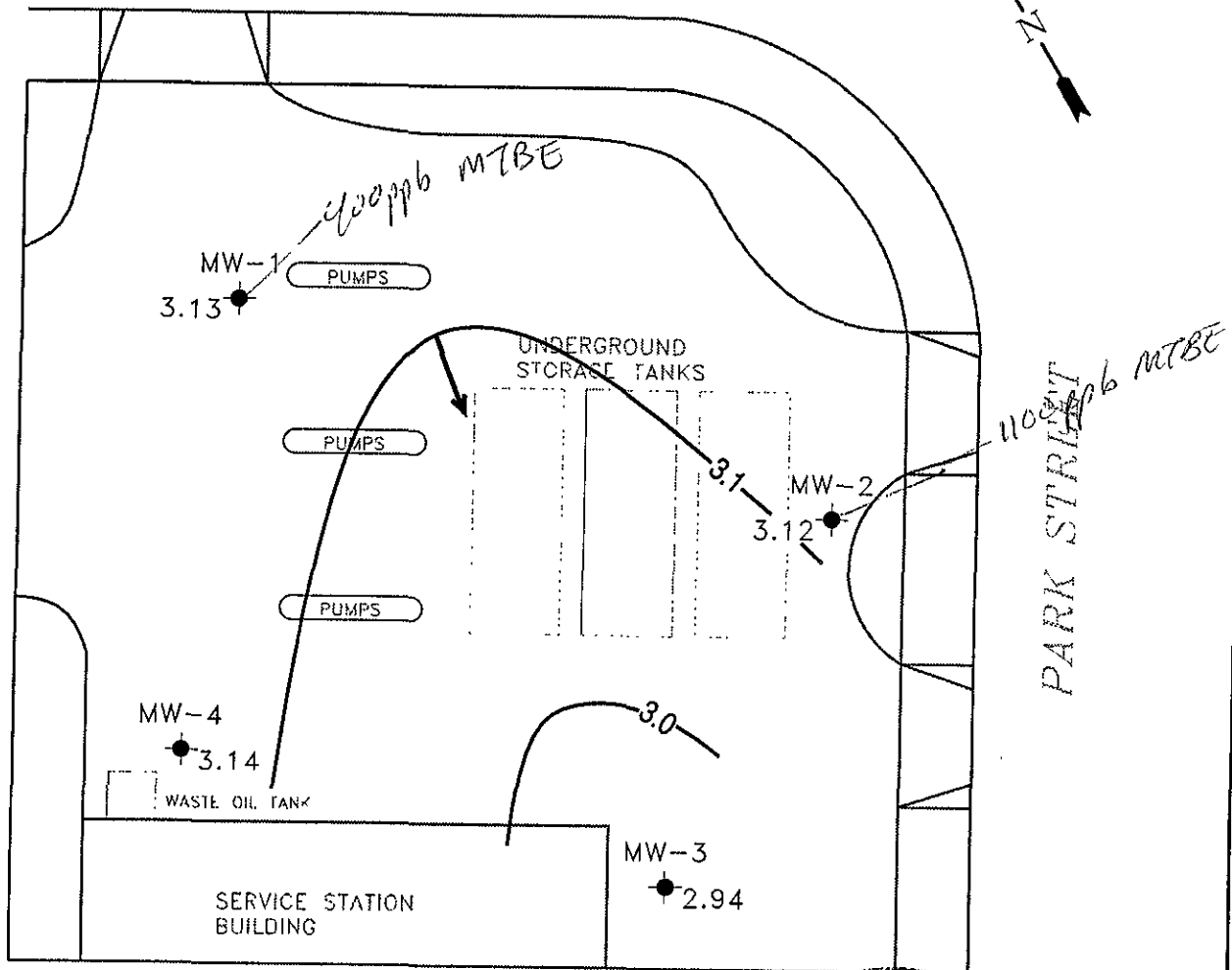
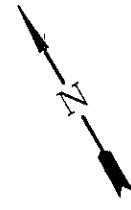
James Keller  
for the Board of Directors

JPK/dk

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

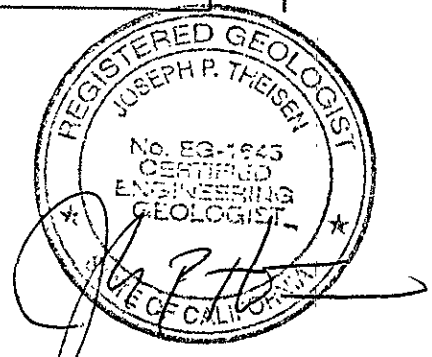
# **Professional Engineering Appendix**

OTIS DRIVE



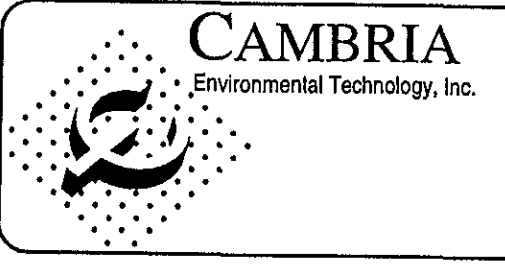
LEGEND

- MONITORING WELL
- POTENTIOMETRIC SURFACE ELEVATION (FT)
- POTENTIOMETRIC SURFACE CONTOUR
- GROUNDWATER FLOW DIRECTION



NOTE:  
 1. CONTOURS REPRESENT APPROXIMATE ELEVATIONS ABOVE MEAN SEA LEVEL.

Base map from Groundwater Technology, Inc.



Chevron Station 9-6607  
 2340 Otis Drive  
 Alameda, California  
 \CHEVRON\9-6607\6607-QM.DWG

Ground Water Elevation  
 July 13, 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	TOG	TPH-Diesel	MTBE	Other VOCs	PNAs
<b>MW-1</b>														
08/21/91	7.12	1.02	6.10	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
01/09/92	7.12	3.16	3.96	--	<50	<0.5	<0.5	<0.5	<0.5	<5000	--	--	--	--
04/20/92	7.12	3.22	3.90	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
07/25/92	7.12	2.94	4.18	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
11/24/92	7.12	2.40	4.72	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
01/21/93	7.12	3.94	3.18	--	<50	<0.5	0.7	<0.5	1.0	--	--	--	--	--
04/13/93	7.12	3.42	3.70	--	<50	<0.5	<0.5	<0.5	1.0	--	--	--	--	--
07/14/93	7.12	2.91	4.21	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
10/26/93	7.12	2.84	4.28	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
01/11/94	7.12	2.96	4.16	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
03/31/94	7.12	3.24	3.88	--	<50	<0.5	0.6	<0.5	0.7	--	--	--	--	--
07/14/94	7.12	4.12	3.00	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
10/12/94	7.12	2.87	4.25	--	80	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
01/11/95	7.12	4.00	3.12	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	121	<5.0	<50
04/05/95	7.12	3.66	3.46	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	130	--	--
07/13/95	7.12	3.13	3.99	--	<125	<1.2	<1.2	<1.2	<1.2	--	--	170	--	<5.0
												400	--	--

## 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	TPH-Diesel	MTBE	Other VOCs	PNAs
<b>MW-2</b>														
08/21/91	7.43	1.03	6.40	--	430	170	0.9	1.0	3.6	--	--	--	--	--
01/09/92	7.43	3.20	4.23	--	58	16	<0.5	<0.5	<0.5	<5000	--	--	--	--
04/20/92	7.43	3.26	4.17	--	180	9.6	<0.5	0.8	<0.5	--	--	--	--	--
07/25/92	7.43	2.96	4.47	--	220	8.0	0.7	4.0	8.6	--	--	--	--	--
11/24/92	7.43	1.61	5.82	--	72	3.2	<0.5	0.5	0.6	--	--	--	--	--
01/21/93	7.43	4.08	3.35	--	<50	0.8	<0.5	<0.5	<0.5	--	--	--	--	--
04/13/93	7.43	3.41	4.02	--	78	<0.5	<0.5	<0.5	0.6	--	--	--	--	--
07/14/93	7.43	2.94	4.49	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
10/26/93	7.43	2.87	4.56	--	<50	<0.5	0.9	<0.5	0.6	--	--	--	--	--
01/11/94	7.43	3.04	4.39	--	<50	<0.5	1.0	<0.5	<0.5	--	--	--	--	--
03/31/94	7.43	3.25	4.18	--	<50	0.5	<0.5	<0.5	0.8	--	--	--	--	--
07/14/94	7.43	2.53	4.90	--	<50	<0.5	<0.5	<0.5	0.6	--	--	--	--	--
10/12/94	7.43	2.89	4.54	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
01/11/95	7.43	4.17	3.26	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	2900	<50--<500	--
04/05/95	7.43	3.78	3.65	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	2500	--	--
07/13/95	7.43	3.12	4.31	--	<250	<2.5	<2.5	<2.5	<2.5	--	--	<2.0	--	<5.0
												1100	--	--



## 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	TPH-Diesel	MTBE	Other VOCs	PNAAs
<b>MW-3</b>														
08/21/91	8.07	0.97	7.10	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
01/09/92	8.07	3.04	5.03	--	<50	<0.5	<0.5	<0.5	<0.5	<5000	--	--	--	--
04/20/92	8.07	3.16	4.91	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
07/25/92	8.07	2.73	5.34	--	<50	1.0	1.0	1.0	3.4	--	--	--	--	--
11/24/92	8.07	3.07	5.00	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
01/21/93	8.07	3.73	4.34	--	<50	<0.5	0.5	<0.5	1.0	--	--	--	--	--
04/13/93	8.07	3.23	4.84	--	<50	<0.5	<0.5	<0.5	0.6	--	--	--	--	--
07/14/93	8.07	2.78	5.29	--	<50	<0.5	<0.5	<0.5	2.0	--	--	--	--	--
10/26/93	8.07	2.71	5.36	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
01/11/94	8.07	2.85	5.22	--	<50	<0.5	1.0	<0.5	<0.5	--	--	--	--	--
03/31/94	8.07	3.08	4.99	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
07/14/94	8.07	2.71	5.36	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
10/12/94	8.07	3.05	5.02	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
01/11/95	8.07	3.72	4.35	--	<50	<0.5	<0.5	<0.5	0.7	--	--	<5.0	--	--
04/05/95	8.07	5.43	2.64	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	<5.0	--	<5.0
07/13/95	8.07	2.94	5.13	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--

## 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	TPH-Diesel	MTBE	Other VOCs	PNAs
<b>MW-4</b>														
08/21/91	7.85	1.00	6.85	--	<50	0.6	<0.5	<0.5	<0.5	<5000	--	--	--	--
01/09/92	7.85	3.15	4.70	--	<50	<0.5	<0.5	<0.5	<0.5	<5000	--	--	--	--
04/20/92	7.85	3.21	4.64	--	<50	<0.5	<0.5	<0.5	<0.5	<5000	--	--	--	--
07/25/92	7.85	2.90	4.95	--	<50	0.5	1.1	<0.5	0.8	--	78	--	--	--
11/24/92	7.85	2.43	5.42	--	<50	<0.5	<0.5	<0.5	1.0	<5000	--	--	--	--
01/21/93	7.85	3.78	4.07	--	<50	<0.5	0.5	<0.5	0.7	--	<10	--	--	--
04/13/93	7.85	3.40	4.45	--	<50	<0.5	<0.5	<0.5	1.0	--	<10	--	--	--
07/14/93	7.85	2.95	4.90	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
10/26/93	7.85	2.90	4.95	--	<50	2.0	3.0	2.0	3.0	--	--	--	--	--
01/11/94	7.85	3.08	4.77	--	<50	<0.5	0.5	<0.5	<0.5	--	--	--	--	--
03/31/94	7.85	3.20	4.65	--	<50	<0.5	<0.5	<0.5	1.0	--	--	--	--	--
07/14/94	7.85	2.80	5.05	--	<50	0.9	1.2	<0.5	2.0	--	--	--	--	--
10/12/94	7.85	2.97	4.88	--	<50	<0.5	0.9	<0.5	0.7	--	--	--	--	--
01/11/95	7.85	3.85	4.00	--	<50	<0.5	0.8	0.7	1.5	--	--	<5.0	--	--
04/05/95	7.85	3.63	4.22	--	<50	<0.5	<0.5	<0.5	<0.5	<5000	--	<2.0	<5.0	--
07/13/95	7.85	3.14	4.71	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--

## 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	TPH-Diesel	MTBE	Other VOCs	PNAs
<b>TRIP BLANK</b>														
01/21/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
04/13/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
07/14/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
10/26/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
01/11/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
03/31/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
07/14/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
10/12/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
01/11/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
04/05/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
07/13/95	--	--	--	--	<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 April 5, 1995.  
 Earlier field data and analytical results provided by Sierra Environmental.

**ABBREVIATIONS:**

- TPH = Total Petroleum Hydrocarbons
- TOG = Total Oil and Grease
- MTBE = Methyltertiary butylether
- VOC = Volatile Organic Compound

# **Analytical Appendix**



Blaine Technical Services 985 Timothy Drive San Jose, CA 95133	Client Proj. ID: Chevron 9-6607, 950713-k1 Sample Descript: MW-1 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9507720-01	Sampled: 07/13/95 Received: 07/14/95 Analyzed: 07/18/95 Reported: 07/21/95
--	--	---

QC Batch Number: GC071895BTEX17A  
Instrument ID: GCHP17

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

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	125	N.D.
Methyl t-Butyl Ether	6.2	400
Benzene	1.2	N.D.
Toluene	1.2	N.D.
Ethyl Benzene	1.2	N.D.
Xylenes (Total)	1.2	N.D.
Chromatogram Pattern:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	88

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 9-6607, 950713-k1  
Sample Descript: MW-2  
Matrix: LIQUID  
Analysis Method: 8015Mod/8020  
Lab Number: 9507720-02

Sampled: 07/13/95  
Received: 07/14/95  
Analyzed: 07/20/95  
Reported: 07/21/95

QC Batch Number: GC071995BTEX22A  
Instrument ID: GCHP22

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

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	250	N.D.
Methyl t-Butyl Ether	12	1100
Benzene	2.5	N.D.
Toluene	2.5	N.D.
Ethyl Benzene	2.5	N.D.
Xylenes (Total)	2.5	N.D.
Chromatogram Pattern:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	80

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 9-6607, 950713-k1 Sample Descript: MW-3 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9507720-03	Sampled: 07/13/95 Received: 07/14/95 Analyzed: 07/17/95 Reported: 07/21/95
--	--	---

QC Batch Number: GC071795BTEX20A  
Instrument ID: GCHP20

**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	Client Proj. ID: Chevron 9-6607, 950713-k1 Sample Descript: MW-4 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9507720-04	Sampled: 07/13/95 Received: 07/14/95 Analyzed: 07/17/95 Reported: 07/21/95
--	--	---

QC Batch Number: GC071795BTEX20A  
Instrument ID: GCHP20

**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	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 985 Timothy Drive San Jose, CA 95133	Client Proj. ID: Chevron 9-6607, 950713-k1 Sample Descript: TB Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9507720-05	Sampled: 07/13/95 Received: 07/14/95 Analyzed: 07/18/95 Reported: 07/21/95
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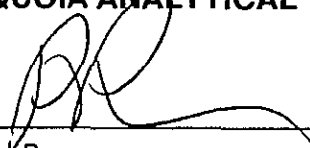
QC Batch Number: GC071795BTEX20A  
Instrument ID: GCHP20

**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





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 9-6607, 950713-k1

Received: 07/14/95

Lab Proj. ID: 9507720

Reported: 07/21/95

## LABORATORY NARRATIVE

TPPH Note: Sample 9507720-01 was diluted 2.5-fold.  
Sample 9507720-02 was diluted 5-fold.  
\*\*Sample dilution required due to MTBE levels.\*\*

SEQUOIA ANALYTICAL

Peggy Penner  
Project Manager





Blaine Tech Services, Inc. 985 Timothy Drive San Jose, CA 95133 Attention: Jim Keller	Client Project ID: Chevron 9-6607, 950713-K1 Matrix: Liquid	Work Order #: 9507720 -01	Reported: Jul 25, 1995
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**QUALITY CONTROL DATA REPORT**

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC071895BTEX17A	GC071895BTEX17A	GC071895BTEX17A	GC071895BTEX17A
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 #:	950714003	950714003	950714003	950714003
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	7/18/95	7/18/95	7/18/95	7/18/95
Analyzed Date:	7/18/95	7/18/95	7/18/95	7/18/95
Instrument I.D.#:	GCHP17	GCHP17	GCHP17	GCHP17
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	8.7	8.8	8.9	27
MS % Recovery:	87	88	89	90
Dup. Result:	8.7	8.7	8.6	26
MSD % Recov.:	87	87	86	87
RPD:	0.0	1.1	3.4	3.8
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	71-133	72-128	72-130	71-120
LCS				
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

9507720.BLA <1>





Blaine Tech Services, Inc. 985 Timothy Drive San Jose, CA 95133 Attention: Jim Keller	Client Project ID: Chevron 9-6607, 950713-K1 Matrix: Liquid Work Order #: 9507720-02	Reported: Jul 25, 1995
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**QUALITY CONTROL DATA REPORT**

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC071995BTEX22A	GC071995BTEX22A	GC071995BTEX22A	GC071995BTEX22A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	R. Geckler	R. Geckler	R. Geckler	R. Geckler
MS/MSD #:	950724808	950724808	950724808	950724808
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	7/19/95	7/19/95	7/19/95	7/19/95
Analyzed Date:	7/19/95	7/19/95	7/19/95	7/19/95
Instrument I.D.#:	GCHP22	GCHP22	GCHP22	GCHP22
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	12	9.3	9.6	29
MS % Recovery:	120	93	96	97
Dup. Result:	9.8	8.0	7.8	24
MSD % Recov.:	98	80	78	80
RPD:	20 ✓	15 ✓	21 ✓	19 ✓
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		

**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.





Blaine Tech Services, Inc. Client Project ID: Chevron 9-6607, 950713-K1  
985 Timothy Drive Matrix: Liquid  
San Jose, CA 95133  
Attention: Jim Keller Work Order #: 9507720-03-05 Reported: Jul 25, 1995

**QUALITY CONTROL DATA REPORT**

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC071795BTEX20A	GC071795BTEX20A	GC071795BTEX20A	GC071795BTEX20A
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 #:	950714001	950714001	950714001	950714001
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	7/17/95	7/17/95	7/17/95	7/17/95
Analyzed Date:	7/17/95	7/17/95	7/17/95	7/17/95
Instrument I.D.#:	GCHP20	GCHP20	GCHP20	GCHP20
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	10	10	10	31
MS % Recovery:	100	100	100	103
Dup. Result:	11	11	11	32
MSD % Recov.:	110	110	110	107
RPD:	9.5	9.5	9.5	3.2
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	71-133	72-128	72-130	71-120
LCS				
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.



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>9-6607</u>	Chevron Contact (Name) <u>Kenneth Kan</u>
	Facility Address <u>2340 Otis Dr., Alameda, CA</u>	(Phone) <u>(510) 842-8752</u>
Consultant Project Number <u>950713-141</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>2768951</u>
(Phone) <u>(408) 995-5535</u>	(Fax Number) <u>293-8773</u>	Samples Collected by (Name) <u>Keith Brown</u>
		Collection Date <u>7/13</u>
		Signature <u>Keith Brown</u>

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Other	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			
								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)	MTBE						
MW1		3	XV	D	1615	HE1	Y	X													9507720	
MW2		↓	↓	↓	1430	↓	↓	X														1
MW3		↓	↓	↓	1400	↓	↓	X														2
MW4		↓	↓	↓	535	↓	↓	X														3
TB		2	↓	↓			↓	X														4
																						5

Requested By (Signature) <u>Keith Brown</u>	Organization <u>BTS</u>	Date/Time <u>7/14/15 9:30</u>	Received By (Signature) <u>Jim Keller</u>	Organization <u>Sequoia</u>	Date/Time <u>7/14/15 9:30</u>	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days 10 Days <input checked="" type="radio"/> As Contracted
Requested By (Signature) <u>Jim Keller</u>	Organization <u>Sequoia</u>	Date/Time <u>7/14/15 12:00</u>	Received By (Signature)	Organization	Date/Time	
Requested By (Signature)	Organization	Date/Time	Released For Laboratory By (Signature) <u>Keith Brown</u>		Date/Time <u>7/14/15 12:00</u>	

# **Field Data Sheets**





# CHEVRON WELL MONITORING DATA SHEET

Project #: <u>950713-K1</u>	Station #: <u>9-8607</u>
Sampler: <u>KEB</u>	Start Date: <u>7/13</u>
Well I.D.: <u>NW1</u>	Well Diameter: (circle one) .2 3 <u>4</u> 6
Total Well Depth: Before <u>2262</u> After	Depth to Water: Before <u>399</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

$$\frac{12.1}{1 \text{ Case Volume}} \times \frac{3}{\text{Specified Volumes}} = \frac{36.3}{\text{gallons}}$$

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:
1546	76.6	7.7	1800	—	13	
1555	69.6	7.8	1800	—	25	
1604	70.0	7.8	1800	—	37	
(Slow Recharge)						

Did Well Dewater? N If yes, gals. \_\_\_\_\_ Gallons Actually Evacuated: 37

Sampling Time: 1615 Sampling Date: 7/13

Sample I.D.: NW1 Laboratory: Ses

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

MTBE

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

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

# CHEVRON WELL MONITORING DATA SHEET

Project #: <u>950713-K2</u>		Station #: <u>9-66097</u>	
Sampler: <u>KCB</u>		Start Date: <u>2/13</u>	
Well I.D.: <u>MW2</u>		Well Diameter: (circle one) 2 3 <u>4</u> 6	
Total Well Depth: Before <u>2298</u> After		Depth to Water: Before <u>431</u> After	
Depth to Free Product: <u>          </u>		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>12.1</u>	x	<u>3</u>	=	<u>36.3</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>1408</u>	<u>75.4</u>	<u>7.7</u>	<u>960</u>	—	<u>13.0</u>	<u>odor</u>
<u>1414</u>	<u>72.0</u>	<u>7.3</u>	<u>960</u>	—	<u>25.0</u>	
<u>1419</u>	<u>71.8</u>	<u>7.4</u>	<u>940</u>	—	<u>37.0</u>	
		<u>Slow Recharge</u>				

Did Well Dewater?  If yes, gals. \_\_\_\_\_ Gallons Actually Evacuated: 37.0

Sampling Time: <u>1430</u>	Sampling Date: _____
Sample I.D.: <u>MW2</u>	Laboratory: <u>Sy</u>
Analyzed for: (Circle) <u>TPH-G</u> <u>BTEX</u> TPH-D OTHER: <u>NITBE</u>	
Duplicate I.D.: _____	Cleaning Blank I.D.: _____
Analyzed for: (Circle) TPH-G BTEX TPH-D OTHER:	

# CHEVRON WELL MONITORING DATA SHEET

Project #: <u>95071344</u>	Station #: <u>9-6607</u>
Sampler: <u>KCB</u>	Start Date: <u>7/13</u>
Well I.D.: <u>MW3</u>	Well Diameter: (circle one) <u>2</u> 3 <u>4</u> 6
Total Well Depth: Before <u>2302</u> After	Depth to Water: Before <u>513</u> After
Depth to Free Product: <u>          </u>	Thickness of Free Product (feet):
Measurements referenced to: <u>VVC</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>116</u>	<u>x</u>	<u>3</u>	<u>=</u>	<u>348</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:
1443	75.2	7.4	1600	—	12	
1449	71.8	7.4	2000	—	24	
1453	71.6	7.6	2000	—	36	
<u>Slow Recharge</u>						

Did Well Dewater? <u>N</u> If yes, gals.	Gallons Actually Evacuated: <u>36</u>
Sampling Time: <u>1500</u>	Sampling Date: <u>7/13</u>
Sample I.D.: <u>MW3</u>	Laboratory: <u>Sr</u>
Analyzed for: (Circle) <u>TPH-G</u> <u>BTEX</u> 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>950713-K2</u>	Station #: <u>9-6607</u>
Sampler: <u>1CAS</u>	Start Date: <u>7/13</u>
Well I.D.: <u>NW4</u>	Well Diameter: (circle one) 2 3 <u>4</u> 6
Total Well Depth: Before <u>1988</u> After	Depth to Water: Before <u>471</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>9.9</u>	<u>x</u>	<u>3</u>	<u>=</u>	<u>29.7</u>
1 Case Volume		Specified Volumes		gallons

Purging: Bailer Disposable Bailer Middleburg Electric Submersible Extraction Pump Other _____	Sampling: Bailer <del>Disposable Bailer</del> Extraction Port Other _____
--	--

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
<u>1514</u>	<u>75.6</u>	<u>7.6</u>	<u>3200</u>	<u>—</u>	<u>10</u>	
<u>1520</u>	<u>75.8</u>	<u>7.6</u>	<u>3200</u>	<u>—</u>	<u>20</u>	
<u>1528</u>	<u>75.8</u>	<u>7.7</u>	<u>3300</u>	<u>—</u>	<u>30</u>	
<u>Slow Recharge.</u>						

Did Well Dewater? <input checked="" type="checkbox"/> If yes, gals. _____	Gallons Actually Evacuated: <u>30</u>
Sampling Time: <u>1535</u>	Sampling Date: <u>7/13</u>
Sample I.D.: <u>NW4</u>	Laboratory: <u>Sy</u>
Analyzed for: (Circle) <u>TPH-G</u> <u>BTEX</u> TPH-D <u>OTHER</u>	
Duplicate I.D.:	Cleaning Blank I.D.:
Analyzed for: (Circle) TPH-G BTEX TPH-D OTHER:	