



BLAINE
TECH SERVICES INC

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ENVIRONMENTAL
PROTECTION

97 FEB 28 PM 3:47

January 13, 1997

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

Fourth Quarter 1996 Groundwater Monitoring at
2001 Versailles Avenue
Alameda, CA

Monitoring Performed on December 12, 1996

Groundwater Sampling Report 961212-F-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 McKittrick Waste Treatment Site for disposal.

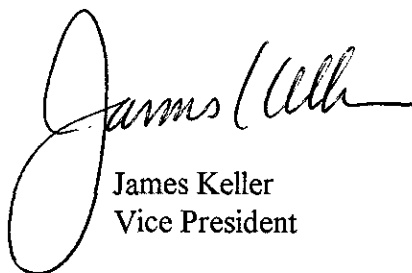
Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL DATA AND ANALYTICAL RESULTS**. The full analytical report for the most recent samples is located in the **Analytical Appendix**. The table also contains new groundwater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

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

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

Please call if you have any questions.

Yours truly,



James Keller
Vice President

JPK/cg

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	TPH-Diesel	TDS(ppm)	MTBE	TOG
MW-1													
06/01/94	--	--	--	--	600	43	ND	8.9	3.5	340*	740	--	--
08/31/95	13.60	6.57	7.03	--	78	<0.5	<0.5	<0.5	<0.5	1200*	--	--	--
10/27/95	13.60	6.21	7.39	--	<50	<0.5	<0.5	<0.5	<0.5	1100*	--	<2.5	--
01/26/96	13.60	7.48	6.12	--	<50	5.6	<0.5	<0.5	<0.5	920*	--	<2.5	--
02/23/96	13.60	10.30	3.30	--	--	--	--	--	--	--	--	--	<5000
05/21/96	13.60	8.08	5.52	--	<50	<0.5	<0.5	<0.5	<0.5	580	--	<2.5	--
12/12/96	13.60	8.02	5.58	--	<50	<0.5	<0.5	<0.5	<0.5	1000	--	<2.5	--
MW-2													
06/01/94	--	--	--	--	ND	ND	ND	ND	ND	270*	--	--	--
08/31/95	12.22	6.20	6.02	--	<50	<0.5	<0.5	<0.5	<0.5	700*	--	--	--
10/27/95	12.22	5.75	6.47	--	<50	<0.5	<0.5	<0.5	<0.5	710*	--	<2.5	--
01/26/96	--	--	--	Inaccessible	--	--	--	--	--	--	--	--	--
02/23/96	--	--	--	Inaccessible	--	--	--	--	--	--	--	--	--
05/21/96	12.22	8.97	3.25	--	<50	<0.5	<0.5	<0.5	<0.5	580*	--	<2.5	<5000
12/12/96	12.22	6.71	5.51	--	<50	<0.5	<0.5	<0.5	<0.5	510*	--	<2.5	<5000
MW-3													
06/01/94	--	--	--	--	360	0.70	ND	ND	0.50	190*	780	--	--
08/31/95	14.41	6.32	8.09	--	56	<0.5	<0.5	<0.5	<0.5	860*	--	--	--
10/27/95	14.41	5.58	8.83	--	<50	<0.5	<0.5	<0.5	<0.5	870*	--	<2.5	--
01/26/96	14.41	8.68	5.73	--	<50	<0.5	<0.5	<0.5	<0.5	530*	--	<2.5	--
02/23/96	14.41	9.47	4.94	--	--	--	--	--	--	--	--	--	<5000
05/21/96	14.41	7.43	6.98	--	<50	<0.5	<0.5	<0.5	<0.5	1000*	--	<2.5	--
12/12/96	14.41	8.20	6.21	--	<50	<0.5	<0.5	<0.5	<0.5	640*	--	<2.5	--
MW-4													
05/31/94	--	--	--	--	170	ND	ND	ND	ND	160*	--	--	--
08/31/95	13.70	5.48	8.22	--	<50	<0.5	<0.5	<0.5	<0.5	940*	--	--	--
10/27/95	13.70	5.05	8.65	--	<50	<0.5	<0.5	<0.5	<0.5	570*	--	<2.5	--
01/26/96	13.70	8.35	5.35	--	<50	<0.5	<0.5	<0.5	<0.5	730*	--	<2.5	--
02/23/96	13.70	9.36	4.34	--	--	--	--	--	--	--	--	--	<5000
05/21/96	13.70	6.92	6.78	--	<50	<0.5	<0.5	<0.5	<0.5	500*	--	<2.5	--
12/12/96	13.70	6.46	7.24	--	<50	<0.5	<0.5	<0.5	<0.5	650*	--	<2.5	--

* Chromatogram pattern indicates an unidentified hydrocarbon.

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	TPH-Diesel	TDS(ppm)	MTBE	TOG
MW-5													
05/31/94	--	--	--	--									
08/31/95	12.63	5.37	7.26	--	140	ND	ND	1.2	ND	620*	--	--	--
10/27/95	12.63	4.85	7.78	--	<50	<0.5	<0.5	<0.5	<0.5	<50	--	--	--
01/26/96	12.63	8.30	4.33	--	<50	<0.5	<0.5	<0.5	<0.5	<50	--	<2.5	--
02/23/96	12.63	9.33	3.30	--	<50	<0.5	<0.5	<0.5	<0.5	1000*	--	<2.5	--
05/21/96	12.63	6.83	5.80	--	--	--	--	--	--	--	--	--	<5000
12/12/96	12.63	7.39	5.24	--	<50	<0.5	<0.5	<0.5	<0.5	160*	--	<2.5	--
					<50	<0.5	<0.5	<0.5	<0.5	<50	--	<2.5	--
MW-6													
05/31/94	--	--	--	--									
08/31/95	13.06	4.38	8.68	--	ND	ND	ND	ND	ND	ND	550	--	550
10/27/95	13.06	3.94	9.12	--	<50	<0.5	<0.5	<0.5	<0.5	<50	--	--	--
01/26/96	13.06	7.16	5.90	--	<50	<0.5	<0.5	<0.5	<0.5	<50	--	<2.5	--
02/23/96	13.06	8.44	4.62	--	<50	<0.5	<0.5	<0.5	<0.5	78*	--	<2.5	--
05/21/96	13.06	5.73	7.33	--	--	--	--	--	--	--	--	--	<5000
12/12/96	13.06	6.35	6.71	--	<50	<0.5	<0.5	<0.5	<0.5	53*	--	<2.5	--
					<50	<0.5	<0.5	<0.5	<0.5	<50	--	<2.5	--
TAP HOSE													
06/01/94	--	--	--	--	ND	ND	ND	ND	ND	ND	--	--	--
WELL													
06/02/94	--	--	--	--	ND	ND	ND	ND	ND	ND	--	--	--

* Chromatogram pattern indicates an unidentified hydrocarbon.

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH- Gasoline	Benzene	Toluene	Ethyl- Benzene	Xylene	TPH- Diesel	TDS(ppm)	MTBE	TOG
TRIP BLANK													
08/31/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
10/27/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
01/26/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	<2.5	--
05/21/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	<2.5	--
12/12/96	--	--	--	--	<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 August 31, 1995. Earlier field data and analytical results are drawn from Chromalab, Inc. and GeoAnalytical Laboratories, Inc.

ABBREVIATIONS:

TPH = Total Petroleum Hydrocarbons

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

TDS = Total Dissolved Solids

MTBE = Methyl t-Butyl Ether

TOG = Total Oil and Grease

Analytical Appendix



Blaine Technical Services 985 Timothy Drive San Jose, CA 95133 Attention: Jim Keller	Client Proj. ID: Chev Signal Blk Pit/961212-F2 Sample Descript: MW-1 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9612927-01	Sampled: 12/12/96 Received: 12/13/96 Extracted: 12/19/96 Analyzed: 12/20/96 Reported: 12/26/96
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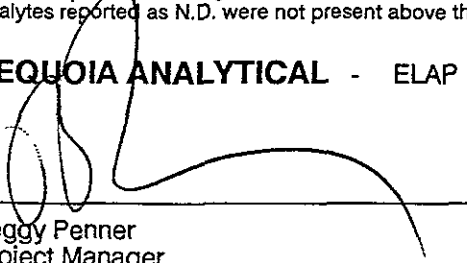
QC Batch Number: GC1219960HBPEXB
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50 C9-C24	1000 W-Diesel
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 134

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Blaine Technical Services 985 Timothy Drive San Jose, CA 95133	Client Proj. ID: Chev Signal Blk Plt/961212-F2 Sample Descript: MW-1 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9612927-01	Sampled: 12/12/96 Received: 12/13/96 Analyzed: 12/17/96 Reported: 12/26/96
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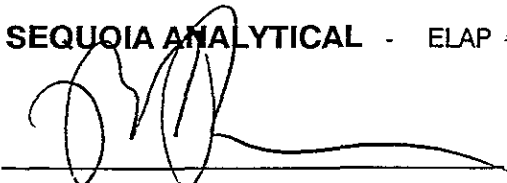
QC Batch Number: GC121796BTEX03A
Instrument ID: GCHP3

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	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 Attention: Jim Keller	Client Proj. ID: Chev Signal Blk Plt/961212-F2 Sample Descript: MW-2 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9612927-02	Sampled: 12/12/96 Received: 12/13/96 Extracted: 12/19/96 Analyzed: 12/20/96 Reported: 12/26/96
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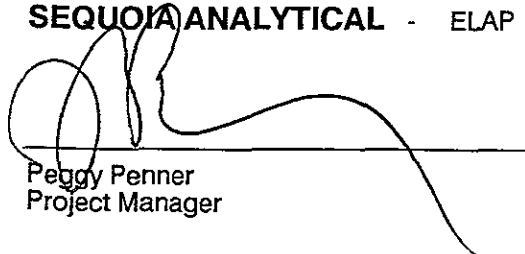
QC Batch Number: GC1219960HBPEXB
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50 C9-C24	510 Unidentified HC
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 149

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

SEQUOIA ANALYTICAL - ELAP #1210



Peggy Penner
Project Manager





Blaine Technical Services 985 Timothy Drive San Jose, CA 95133	Client Proj. ID: Chev Signal Blk Plt/961212-F2 Sample Descript: MW-2 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9612927-02	Sampled: 12/12/96 Received: 12/13/96 Analyzed: 12/17/96 Reported: 12/26/96
Attention: Jim Keller		

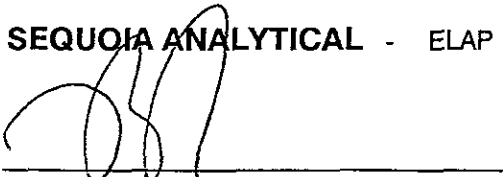
QC Batch Number: GC121796BTEX03A
Instrument ID: GCHP3

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	82

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: Chev Signal Blk Pit/961212-F2 Sample Descript: MW-3 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9612927-03	Sampled: 12/12/96 Received: 12/13/96 Extracted: 12/19/96 Analyzed: 12/23/96 Reported: 12/26/96
Attention: Jim Keller		

QC Batch Number: GC1219960HBPEXB
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50 C9-C24	640 Unidentified HC
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 161 Q

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager





Blaine Technical Services 985 Timothy Drive San Jose, CA 95133	Client Proj. ID: Chev Signal Bk Plt/961212-F2 Sample Descript: MW-3 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9612927-03	Sampled: 12/12/96 Received: 12/13/96 Analyzed: 12/17/96 Reported: 12/26/96
Attention: Jim Keller		

QC Batch Number: GC121796BTEX03A
Instrument ID: GCHP3

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	91

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: Chev Signal Bik PIt/961212-F2 Sample Descript: MW-4 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9612927-04	Sampled: 12/12/96 Received: 12/13/96 Extracted: 12/19/96 Analyzed: 12/23/96 Reported: 12/26/96
Attention: Jim Keller		

QC Batch Number: GC1219960HBPEXB
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50 C9-C24	650 Unidentified HC
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 147

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager





Blaine Technical Services 985 Timothy Drive San Jose, CA 95133	Client Proj. ID: Chev Signal Blk Ptt/961212-F2 Sample Descript: MW-4 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9612927-04	Sampled: 12/12/96 Received: 12/13/96 Analyzed: 12/18/96 Reported: 12/26/96
Attention: Jim Keller		

QC Batch Number: GC121796BTEX02B
Instrument ID: GCHP2

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	72

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: Chev Signal Blk Pit/961212-F2 Sample Descript: MW-5 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9612927-05	Sampled: 12/12/96 Received: 12/13/96 Extracted: 12/19/96 Analyzed: 12/20/96 Reported: 12/26/96
Attention: Jim Keller		

QC Batch Number: GC1219960HBPEXB
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50	N.D.
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 106

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Blaine Technical Services 985 Timothy Drive San Jose, CA 95133	Client Proj. ID: Chev Signal Blk Plt/961212-F2 Sample Descript: MW-5 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9612927-05	Sampled: 12/12/96 Received: 12/13/96 Analyzed: 12/17/96 Reported: 12/26/96
Attention: Jim Keller		

QC Batch Number: GC121796BTEX03A
Instrument ID: GCHP3

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	82

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: Chev Signal Blk Plt/961212-F2 Sample Descript: MW-6 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9612927-06	Sampled: 12/12/96 Received: 12/13/96 Extracted: 12/19/96 Analyzed: 12/20/96 Reported: 12/26/96
Attention: Jim Keller		

QC Batch Number: GC1219960HBPEXB
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50	N.D.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	110

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Blaine Technical Services 985 Timothy Drive San Jose, CA 95133	Client Proj. ID: Chev Signal Blk Pit/961212-F2 Sample Descript: MW-6 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9612927-06	Sampled: 12/12/96 Received: 12/13/96 Analyzed: 12/17/96 Reported: 12/26/96
Attention: Jim Keller		

QC Batch Number: GC121796BTEX03A
Instrument ID: GCHP3

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	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: Chev Signal Blk Plt/961212-F2 Sample Descript: TB Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9612927-07	Sampled: 12/12/96 Received: 12/13/96 Analyzed: 12/17/96 Reported: 12/26/96
Attention: Jim Keller		

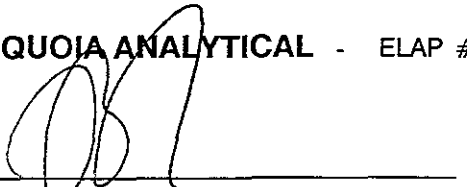
QC Batch Number: GC121796BTEX03A
Instrument ID: GCHP3

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	86

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

SEQUOIA ANALYTICAL - ELAP #1210



Peggy Renner
Project Manager





Blaine Technical Services 985 Timothy Drive San Jose, CA 95133 Attention: Jim Keller	Client Proj. ID: Chev Signal Blk Plt/961212-F2 Lab Proj. ID: 9612927	Received: 12/13/96 Reported: 12/26/96
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LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 16 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

SEQUOIA ANALYTICAL

Peggy Permer
Project Manager





Blaine Tech Services, Inc. Client Project ID: Chevron Signal Blk Pit/961212-F2
 985 Timothy Drive Matrix: Liquid
 San Jose, CA 95133 Work Order #: 9612927 -01-07 Reported: Dec 31, 1996
 Attention: Jim Keller

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC121796BTEX03A	GC121796BTEX03A	GC121796BTEX03A	GC121796BTEX03A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	D. Jirsa	D. Jirsa	D. Jirsa	D. Jirsa
MS/MSD #:	961271501	961271501	961271501	961271501
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	12/17/96	12/17/96	12/17/96	12/17/96
Analyzed Date:	12/17/96	12/17/96	12/17/96	12/17/96
Instrument I.D.#:	GCHP03	GCHP03	GCHP03	GCHP03
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	9.3	9.0	8.9	28
MS % Recovery:	93	90	89	93
Dup. Result:	9.3	9.0	9.0	28
MSD % Recov.:	93	90	90	93
RPD:	0.0	0.0	1.1	0.0
RPD Limit:	0-25	0-25	0-25	0-25

LCS #:	BLK121796	BLK121796	BLK121796	BLK121796
Prepared Date:	12/17/96	12/17/96	12/17/96	12/17/96
Analyzed Date:	12/17/96	12/17/96	12/17/96	12/17/96
Instrument I.D.#:	GCHP03	GCHP03	GCHP03	GCHP03
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	8.8	8.3	8.2	26
LCS % Recov.:	88	83	82	87

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

9612927.BLA <1>





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

Client Project ID: Chevron Signal Blk Plt/961212-F2
Matrix: Liquid

Work Order #: 9612927-01-06

Reported: Dec 31, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Diesel
QC Batch#:	GC1219960HBPEXB
Analy. Method:	EPA 8015M
Prep. Method:	EPA 3510

Analyst: J. Minkel
MS/MSD #: 961290801
Sample Conc.: N.D.
Prepared Date: 12/19/96
Analyzed Date: 12/20/96
Instrument I.D.#: GCHP05B
Conc. Spiked: 1000 µg/L

Result: 1200
MS % Recovery: 120

Dup. Result: 1400
MSD % Recov.: 140

RPD: 15.0
RPD Limit: 0-50

LCS #: BLK121996
Prepared Date: 12/19/96
Analyzed Date: 12/20/96
Instrument I.D.#: GCHP05B
Conc. Spiked: 1000 µg/L

LCS Result: 1200
LCS % Recov.: 120

MS/MSD	60-140
LCS	50-150
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

9612927.BLA <2>



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 Former Signal Bulk Plant
 Facility Address 2001 Versailles Ave., Alameda, CA
 Consultant Project Number 961212-F2
 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) Phil Briggs
 (Phone) (510) 842-9136
 Laboratory Name Sequoia
 Laboratory Release Number 3442430
 Samples Collected by (Name) Tim Graf
 Collection Date 12/12/96
 Signature Tim Graf

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water 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				
								BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (5245)	Extractable Organics (5270)	Metals (Cd, Cr, Pb, Zn, Ni) (1042 or AA)	MTSE							
MW-1	1	5	W		1600	HCL	Y	X	X														
MW-2	2	5			1530			X	X														
MW-3	3	5			1630			X	X														
MW-4	4	5			1505			X	X														
MW-5	5	5			1440			X	X														
MW-6	6	5			1415			X	X														
SID	7	2	↓		-	↓	↓	X	XXXX	↓													

Relinquished By (Signature) <u>Tim Graf</u>	Organization <u>BTS</u>	Date/Time <u>12/13/96</u>	Received By (Signature) <u>Father</u>	Organization <u>Sequoia</u>	Date/Time <u>12/13/96</u>
Relinquished By (Signature) <u>Father</u>	Organization	Date/Time <u>12/13/96</u>	Received By (Signature)	Organization	Date/Time
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature) <u>W</u>	Organization	Date/Time <u>12/13/96 1344</u>

Turn Around Time (Circle Choice)

24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted

COC-3.DWG/03 91/HCH

Field Data Sheets

CHEVRON WELL MONITORING DATA SHEET

Project #: <u>961212-F2</u>	Station #: <u>SIGNAL BULK PLANT</u>
Sampler: <u>TG</u>	Date: <u>12/12/96</u>
Well I.D.: <u>mw-1</u>	Well Diameter: <u>(2)</u> 3 4 6 8 <u> </u>
Total Well Depth: <u>22.42</u>	Depth to Water: <u>5.58</u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
Referenced to: <u>(PVO)</u> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.15	5"	1.02
3"	0.57	6"	1.47
4"	0.65	Other	radius ² * 0.163

Purge Method: <u>Bailer</u>	Sampling Method: <u>Bailer</u>
<u>Disposable Bailer</u>	<u>Disposable Bailer</u>
<u>Middleburg</u>	<u>Extraction Port</u>
<u>Electric Submersible</u>	Other: <u> </u>
<u>Extraction Pump</u>	
Other: <u> </u>	

<u>2.7</u>	x	<u>3</u>	=	<u>8.1</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
<u>1344</u>	<u>66.2</u>	<u>7.4</u>	<u>700</u>	<u>2.75</u>	<u>Slow RECHARGE</u>
<u>1547</u>	<u>66.6</u>	<u>7.3</u>	<u>780</u>	<u>5.50</u>	
<u>1549</u>	<u>66.4</u>	<u>7.3</u>	<u>780</u>	<u>8.25</u>	

Did well dewater? Yes <u>(No)</u>	Gallons actually evacuated: <u>8.25</u>	
Sampling Time: <u>1600</u>	Sampling Date: <u>12/12/96</u>	
Sample I.D.: <u>mw-1</u>	Laboratory: <u>(Sequoia)</u> GTEL	
Analyzed for: <u>TPH-G BTEX MTBE TPH-D</u> Other: <u> </u>		
D.O. (if req'd):	Pre-purge: <u> </u> ^{mg/L}	Post-purge: <u> </u> ^{mg/L}
O.R.P. (if req'd):	Pre-purge: <u> </u> mV	Post-purge: <u> </u> mV

CHEVRON WELL MONITORING DATA SHEET

Project #: 961212-F2	Station #: SIGNAL BULK PLANT
Sampler: TG	Date: 12/12/96
Well I.D.: mw-2	Well Diameter: (2) 3 4 6 8
Total Well Depth: 22.06	Depth to Water: 5.51
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.15	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius ² * 0.163

Purge Method: Bailer Disposable Bailer <input checked="" type="checkbox"/> Middleburg Electric Submersible Extraction Pump Other: _____	Sampling Method: Bailer Disposable Bailer <input checked="" type="checkbox"/> Extraction Port Other: _____
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2.6	x	3	=	7.8	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1518 1518	66.8	7.0	620	2.75	SLOW RECHARGE
1521 1521	66.0	7.1	700	5.25	
1524 1524	65.0	7.1	760	8.0	

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: 8.0
Sampling Time: 1530 1530	Sampling Date: 12/12/96
Sample I.D.: mw-2	Laboratory: (Sequoia) GTEL

Analyzed for: TPH-G BTEX MTBE TPH-D	Other:	
D.O. (if req'd):	Pre-purge: mg/L	Post-purge: mg/L
O.R.P. (if req'd):	Pre-purge: mV	Post-purge: mV

CHEVRON WELL MONITORING DATA SHEET

Project #: 961212-F2	Station #: 9 SIGNAL BULK PLANT
Sampler: TG	Date: 12/12/96
Well I.D.: MW-3	Well Diameter: (2) 3 4 6 8
Total Well Depth: 23.40	Depth to Water: 6.21
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius ² * 0.163

Purge Method: Bailer Disposable Bailer <input checked="" type="checkbox"/> Middleburg Electric Submersible Extraction Pump Other: _____	Sampling Method: Bailer Disposable Bailer <input checked="" type="checkbox"/> Extraction Port Other: _____
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2.8	x	3	=	8.4	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1615	64.2	7.0	800	3.0	
1618	63.4	7.0	720	5.75	
1621	63.2	7.0	700	8.50	

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: 8.50
Sampling Time: 1630	Sampling Date: 12/12/96
Sample I.D.: MW-3	Laboratory: (Sequoia) GTEL
Analyzed for: (IPH-G BTEX MIBE IPH-D)	Other:
D.O. (if req'd):	Pre-purge: mV/L Post-purge: mV/L
D.R.P. (if req'd):	Pre-purge: mV Post-purge: mV

CHEVRON WELL MONITORING DATA SHEET

Project #: <u>961212-F2</u>	Station #: <u>SIGNAL BULK PLANT</u>
Sampler: <u>TC</u>	Date: <u>12/12/196</u>
Well I.D.: <u>MW-4</u>	Well Diameter: <u>(2)</u> 3 4 6 8 <u> </u>
Total Well Depth: <u>21.08</u>	Depth to Water: <u>7.24</u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u> </u> YSI <u> </u> HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.15	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius ² * 0.163

Purge Method: <u>Bailer</u> Disposable Bailer <input checked="" type="checkbox"/> Middleburg <input type="checkbox"/> Electric Submersible Extraction Pump Other: <u> </u>	Sampling Method: <u>Bailer</u> Disposable Bailer <input checked="" type="checkbox"/> Extraction Port Other: <u> </u>
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<u>2.2</u>	x	<u>3</u>	=	<u>6.6</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
<u>1453</u>	<u>66.8</u>	<u>7.8</u>	<u>800</u>	<u>2.25</u>	
<u>1455</u>	<u>66.0</u>	<u>7.4</u>	<u>860</u>	<u>4.50</u>	
<u>1457</u>	<u>65.8</u>	<u>7.3</u>	<u>860</u>	<u>6.75</u>	

Did well dewater? Yes No Gallons actually evacuated: 6.75

Sampling Time: 1505 Sampling Date: 12/12/196

Sample I.D.: MW-4 Laboratory: Sequoia GTEL

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

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

CHEVRON WELL MONITORING DATA SHEET

Project #: 961212-F2	Station #: SIGNAL BULK PLANT
Sampler: TG	Date: 12/12/96
Well I.D.: mw-5	Well Diameter: (2) 3 4 6 8
Total Well Depth: 22.10	Depth to Water: 5.24
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multplier	Well Diameter	Multplier
2"	0.15	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius ² * 0.163

Purge Method: Bailer Disposable Bailer <input checked="" type="checkbox"/> Middleburg Electric Submersible Extraction Pump Other: _____	Sampling Method: Bailer Disposable Bailer <input checked="" type="checkbox"/> Extraction Port Other: _____
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2.7	x	3	=	8.1	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1428	69.6	7.6	900	2.75	
1430	70.4	7.8	900	5.50	
1432	70.6	7.8	900	8.25	

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: 8.25
Sampling Time: 1440	Sampling Date: 12/12/96
Sample I.D.: mw-5	Laboratory: (Sequoia) GTEL
Analyzed for: (PH-G BTEX MIBE TPH-D) Other:	
D.O. (if req'd):	Pre-purge: <input type="checkbox"/> <input type="checkbox"/> Post-purge: <input type="checkbox"/> <input type="checkbox"/>
D.R.P. (if req'd):	Pre-purge: <input type="checkbox"/> mV Post-purge: <input type="checkbox"/> mV

CHEVRON WELL MONITORING DATA SHEET

Project #: <u>961212-F2</u>	Station #: <u>SIGNAL BULK PLANT</u>
Sampler: <u>TG</u>	Date: <u>12/12/96</u>
Well I.D.: <u>MW-6</u>	Well Diameter: <u>(2)</u> 3 4 6 8 <u> </u>
Total Well Depth: <u>20.18</u>	Depth to Water: <u>6.71</u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multplier	Well Diameter	Multplier
2"	0.15	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius ² * 0.163

Purge Method: <u>Bailer</u>	Sampling Method: <u>Bailer</u>
<u>Disposable Bailer</u> <input checked="" type="checkbox"/>	<u>Disposable Bailer</u> <input checked="" type="checkbox"/>
<u>Middleburg</u>	<u>Extraction Port</u>
<u>Electric Submersible</u>	Other: <u> </u>
<u>Extraction Pump</u>	
Other: <u> </u>	

<u>2.2</u>	x	<u>3</u>	=	<u>6.6</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
<u>1402</u>	<u>68.2</u>	<u>7.6</u>	<u>600</u>	<u>2.25</u>	
<u>1404</u>	<u>68.4</u>	<u>7.4</u>	<u>540</u>	<u>4.50</u>	
<u>1406</u>	<u>68.4</u>	<u>7.4</u>	<u>560</u>	<u>6.75</u>	

Did well dewater?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>6.75</u>
Sampling Time:	<u>1415</u>	Sampling Date:	<u>12/12/96</u>
Sample I.D.:	<u>MW-6</u>	Laboratory:	<u>(Sequoia)</u> GTEL
Analyzed for:	<u>TPH-G BTEX MIBE TPH-D</u> Other: <u> </u>		
D.O. (if req'd):	Pre-purge:	<u> </u> ^{mg/L}	Post-purge: <u> </u> ^{mg/L}
O.R.P. (if req'd):	Pre-purge:	<u> </u> mV	Post-purge: <u> </u> mV