Review for site closure

ENVIRONMENTAL PROTECTION
97 JUL 15 PM 2:25

Chevron

July 14, 1997

#607

Chevron Products Company
6001 Bollinger Canyon Road
Building L
San Ramon, CA 94583
P.O. Box 6004
San Ramon, CA 94583-0904

Marketing – Sales West
Phone 510 842 9500

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

Re: **Former Signal Bulk Plant**
2001 Versailles Avenue
Alameda, California

Dear Mr. Chan:

Enclosed is the Second Quarter Groundwater Monitoring report for 1997 that was prepared by Blaine Tech Services, Inc. for the above noted site. Samples were analyzed for TPH-g, TPH-d, BTEX and MtBE constituents.

All wells were below method detection limits for TPH-g, BTEX and MtBE constituents with the highest TPH-d reading in MW-1 at 890 ppb. However, the chromatogram pattern for this constituent is not consistent with diesel and is listed as an unidentified hydrocarbon.

Depth to ground water varied from 5.68 feet to 8.04 feet below grade with the flow direction northeasterly.

Based on this and previous sampling events, Chevron requests that the groundwater monitoring wells be abandoned and the site be closed. Monitoring wells MW-2 through MW-6 have been below method detection limits for the TPH-g, BTEX and MtBE constituents for at least the last five sampling events, and for the last three sampling events for MW-1. This appears to be a low risk site in relation to the impact of dissolved hydrocarbons into the groundwater, and does not appear to be a health or environmental hazard.

If you have any questions or comments call me at (510) 842-9136.

Sincerely,
CHEVRON PRODUCTS COMPANY

Philip R. Briggs
Site Assessment and Remediation Project Manager

Enclosure

cc. Ms. B. C. Owen

Mr. Clifford Mapes
14 Grass Valley Court
Oakland, CA. 94605

Exxon Company, U. .S. A. (Letter only)
Marketing Department
Attn. Distribution Manager
800 Bell Street, Suite 2845
Houston, TX 77002

Mr. William J. Stack (Letter only)
Exxon Company, U. S. A.
800 Bell Street, Suite 4137
Houston, TX 77002

Ms. M. Guensler
Exxon Company, U. S. A.
PO Box 4032,
Concord, CA 94524-2032

John & Molly King
King Petroleum, Inc.
PO Box 137
Woodacre, CA 94973

BLAINE
TECH SERVICES

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112
(408) 573-7771 FAX
(408) 573-0555 PHONE

July 9, 1997

Phil Briggs
Chevron U.S.A. Products Company
P.O. Box 6004
San Ramon, CA 94583-0904

Second Quarter 1997 Groundwater Monitoring at
2001 Versailles Avenue
Alameda, CA

Monitoring Performed on June 3, 1997

Groundwater Sampling Report **970603-G-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 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.

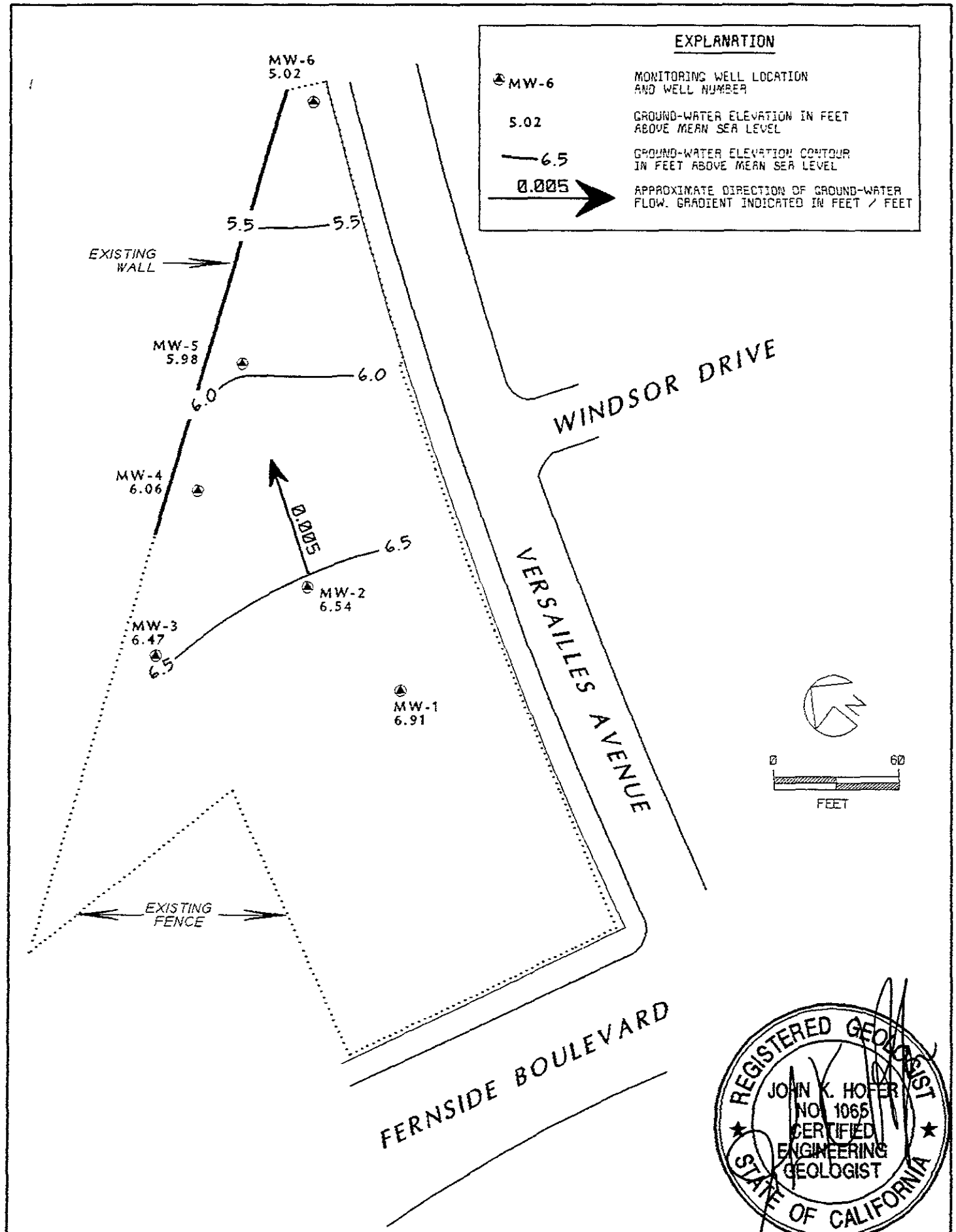
Yours truly,

Francis Thie
Vice President

FPT/aa

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

Professional Engineering Appendix



REGISTERED GEOLOGIST
JOHN K. HOFER
NO. 1065
CERTIFIED ENGINEERING GEOLOGIST
STATE OF CALIFORNIA

TITLE : GROUND-WATER ELEVATION CONTOUR MAP - JUNE 3, 1997

LOCATION : FORMER CHEVRON ALAMEDA BULK PLANT
2001 VERSAILLES AVENUE, ALAMEDA, CALIFORNIA

SOURCE .RON ARCHER CIVIL ENGINEER INC.

GEOCONSULTANTS, INC
SAN JOSE, CALIFORNIA
Project No. G758-09
DRAWING NO CHEVRON\ALAMEDA\W060397

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	--	--	<2.5	--
06/03/97	13.60	6.91	6.69	--	<50	<0.5	<0.5	<0.5	<0.5	890*	--	<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
06/03/97	12.22	6.54	5.68	--	<50	<0.5	<0.5	<0.5	<0.5	470*	--	<2.5	--
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	--
06/03/97	14.41	6.47	7.94	--	<50	<0.5	<0.5	<0.5	<0.5	720*	--	<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	--
06/03/97	13.70	6.06	7.64	--	<50	<0.5	<0.5	<0.5	<0.5	460*	--	<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	--	--	--	--	140	ND	ND	1.2	ND	620*	--	--	--
08/31/95	12.63	5.37	7.26	--	<50	<0.5	<0.5	<0.5	<0.5	<50	--	--	--
10/27/95	12.63	4.85	7.78	--	<50	<0.5	<0.5	<0.5	<0.5	<50	--	<2.5	--
01/26/96	12.63	8.30	4.33	--	<50	<0.5	<0.5	<0.5	<0.5	1000*	--	<2.5	--
02/23/96	12.63	9.33	3.30	--	--	--	--	--	--	--	--	--	<5000
05/21/96	12.63	6.83	5.80	--	<50	<0.5	<0.5	<0.5	<0.5	160*	--	<2.5	--
12/12/96	12.63	7.39	5.24	--	<50	<0.5	<0.5	<0.5	<0.5	<50	--	<2.5	--
06/03/97	12.63	5.98	6.65	--	<50	<0.5	<0.5	<0.5	<0.5	150*	--	<2.5	--
MW-6													
05/31/94	--	--	--	--	ND	ND	ND	ND	ND	ND	550	--	550
08/31/95	13.06	4.38	8.68	--	<50	<0.5	<0.5	<0.5	<0.5	<50	--	--	--
10/27/95	13.06	3.94	9.12	--	<50	<0.5	<0.5	<0.5	<0.5	<50	--	<2.5	--
01/26/96	13.06	7.16	5.90	--	<50	<0.5	<0.5	<0.5	<0.5	78*	--	<2.5	--
02/23/96	13.06	8.44	4.62	--	--	--	--	--	--	--	--	--	<5000
05/21/96	13.06	5.73	7.33	--	<50	<0.5	<0.5	<0.5	<0.5	53*	--	<2.5	--
12/12/96	13.06	6.35	6.71	--	<50	<0.5	<0.5	<0.5	<0.5	<50	--	<2.5	--
06/03/97	13.06	5.02	8.04	--	<50	<0.5	<0.5	<0.5	<0.5	67*	--	<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	--
06/03/97	--	--	--	--	<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

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Blaine Tech Services	Client Proj. ID: Chevron Sig.Bulk/970603-G1	Sampled: 06/03/97
1680 Rogers Avenue	Sample Descript: MW-1	Received: 06/04/97
San Jose, CA 95112	Matrix: LIQUID	Extracted: 06/06/97
	Analysis Method: EPA 8015 Mod	Analyzed: 06/10/97
Attention: Fran Thie	Lab Number: 9706167-01	Reported: 06/11/97

QC Batch Number: GC0606970HBPEXZ
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	**50**	**890**
Chromatogram Pattern:	**C9-C24**	**Unidentified HC**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	125

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

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Blaine Tech Services	Client Proj. ID: Chevron Sig.Bulk/970603-G1	Sampled: 06/03/97
1680 Rogers Avenue	Sample Descript: MW-1	Received: 06/04/97
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 06/09/97
Attention: Fran Thie	Lab Number: 9706167-01	Reported: 06/11/97

QC Batch Number: GC060997BTEX01A
Instrument ID: GCHP01

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	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, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Blaine Tech Services	Client Proj. ID: Chevron Sig.Bulk/970603-G1	Sampled: 06/03/97
1680 Rogers Avenue	Sample Descript: MW-2	Received: 06/04/97
San Jose, CA 95112	Matrix: LIQUID	Extracted: 06/06/97
	Analysis Method: EPA 8015 Mod	Analyzed: 06/10/97
Attention: Fran Thie	Lab Number: 9706167-02	Reported: 06/11/97

QC Batch Number: GC0606970HBPEXZ
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	**50**	**470**
Chromatogram Pattern:	**C9-C24**	**Unidentified HC**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	109

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

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Blaine Tech Services	Client Proj. ID: Chevron Sig.Bulk/970603-G1	Sampled: 06/03/97
1680 Rogers Avenue	Sample Descript: MW-2	Received: 06/04/97
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 06/09/97
Attention: Fran Thie	Lab Number: 9706167-02	Reported: 06/11/97

QC Batch Number: GC060997BTEX01A
Instrument ID: GCHP01

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	78

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, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Blaine Tech Services	Client Proj. ID: Chevron Sig.Bulk/970603-G1	Sampled: 06/03/97
1680 Rogers Avenue	Sample Descript: MW-3	Received: 06/04/97
San Jose, CA 95112	Matrix: LIQUID	Extracted: 06/09/97
	Analysis Method: EPA 8015 Mod	Analyzed: 06/11/97
Attention: Fran Thie	Lab Number: 9706167-03	Reported: 06/11/97

QC Batch Number: GC0609970HBPEXB
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	**50**	**720**
Chromatogram Pattern:	**C9-C24**	**Unidentified HC**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	103

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

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Blaine Tech Services	Client Proj. ID: Chevron Sig.Bulk/970603-G1	Sampled: 06/03/97
1680 Rogers Avenue	Sample Descript: MW-3	Received: 06/04/97
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 06/10/97
Attention: Fran Thie	Lab Number: 9706167-03	Reported: 06/11/97

QC Batch Number: GC061097BTEX06A
Instrument ID: GCHP06

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	85

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, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Blaine Tech Services	Client Proj. ID: Chevron Sig.Bulk/970603-G1	Sampled: 06/03/97
1680 Rogers Avenue	Sample Descript: MW-4	Received: 06/04/97
San Jose, CA 95112	Matrix: LIQUID	Extracted: 06/06/97
	Analysis Method: EPA 8015 Mod	Analyzed: 06/10/97
Attention: Fran Thie	Lab Number: 9706167-04	Reported: 06/11/97

QC Batch Number: GC0606970HBPEXZ
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	**50**	**460**
Chromatogram Pattern:	**C9-C24**	**Unidentified HC**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	133

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

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Blaine Tech Services	Client Proj. ID: Chevron Sig.Bulk/970603-G1	Sampled: 06/03/97
1680 Rogers Avenue	Sample Descript: MW-4	Received: 06/04/97
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 06/09/97
Attention: Fran Thie	Lab Number: 9706167-04	Reported: 06/11/97

QC Batch Number: GC060997BTEX01A
Instrument ID: GCHP01

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	79

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Perper
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Blaine Tech Services	Client Proj. ID: Chevron Sig.Bulk/970603-G1	Sampled: 06/03/97
1680 Rogers Avenue	Sample Descript: MW-5	Received: 06/04/97
San Jose, CA 95112	Matrix: LIQUID	Extracted: 06/06/97
	Analysis Method: EPA 8015 Mod	Analyzed: 06/10/97
Attention: Fran Thie	Lab Number: 9706167-05	Reported: 06/11/97

QC Batch Number: GC0606970HBPEXZ
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	**50**	**150**
Chromatogram Pattern:	**C9-C24**	**Unidentified HC**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	85

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

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Blaine Tech Services	Client Proj. ID: Chevron Sig.Bulk/970603-G1	Sampled: 06/03/97
1680 Rogers Avenue	Sample Descript: MW-5	Received: 06/04/97
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 06/09/97
Attention: Fran Thie	Lab Number: 9706167-05	Reported: 06/11/97

QC Batch Number: GC060997BTEX01A
Instrument ID: GCHP01

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	99

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, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Blaine Tech Services	Client Proj. ID: Chevron Sig.Bulk/970603-G1	Sampled: 06/03/97
1680 Rogers Avenue	Sample Descript: MW-6	Received: 06/04/97
San Jose, CA 95112	Matrix: LIQUID	Extracted: 06/06/97
	Analysis Method: EPA 8015 Mod	Analyzed: 06/10/97
Attention: Fran Thie	Lab Number: 9706167-06	Reported: 06/11/97

QC Batch Number: GC0606970HBPEXZ
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	**50**	**67**
Chromatogram Pattern:	**C9-C24**	**Unidentified HC**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	89

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

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Blaine Tech Services	Client Proj. ID: Chevron Sig.Bulk/970603-G1	Sampled: 06/03/97
1680 Rogers Avenue	Sample Descript: MW-6	Received: 06/04/97
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 06/09/97
Attention: Fran Thie	Lab Number: 9706167-06	Reported: 06/11/97

QC Batch Number: GC060997BTEX01A
Instrument ID: GCHP01

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	84

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, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Blaine Tech Services	Client Proj. ID: Chevron Sig.Bulk/970603-G1	Sampled: 06/03/97
1680 Rogers Avenue	Sample Descript: TB	Received: 06/04/97
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 06/09/97
Attention: Fran Thie	Lab Number: 9706167-07	Reported: 06/11/97

QC Batch Number: GC060997BTEX01A
Instrument ID: GCHP01

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	92

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, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Blaine Tech Services, Inc.
1680 Rogers Ave.
San Jose, CA 95112
Attention: Fran Thie

Client Project ID: Chevron Sig. Bulk/970603-G1
Matrix: Liquid
Work Order #: 9706167 -01, 02, 04 thru 07
Reported: Jun 12, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC060997BTEX01A	GC060997BTEX01A	GC060997BTEX01A	GC060997BTEX01A	GC060997BTEX01A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	A. Porter	A. Porter	A. Porter	A. Porter	A. Porter
MS/MSD #:	9706098-03	9706098-03	9706098-03	9706098-03	9706098-03
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	6/9/97	6/9/97	6/9/97	6/9/97	6/9/97
Analyzed Date:	6/9/97	6/9/97	6/9/97	6/9/97	6/9/97
Instrument I.D.#:	GCHP-01	GCHP-01	GCHP-01	GCHP-01	GCHP-01
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	11	10	10	30	76
MS % Recovery:	110	100	100	100	127
Dup. Result:	11	10	10	30	74
MSD % Recov.:	110	100	100	100	123
RPD:	0	0	0	0	2.7
RPD Limit:	0-25	0-25	0-25	0-25	0-50
LCS #:	BLK060997	BLK060997	BLK060997	BLK060997	BLK060997
Prepared Date:	6/9/97	6/9/97	6/9/97	6/9/97	6/9/97
Analyzed Date:	6/9/97	6/9/97	6/9/97	6/9/97	6/9/97
Instrument I.D.#:	GCHP-01	GCHP-01	GCHP-01	GCHP-01	GCHP-01
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	9.5	9.1	9.1	26	65
LCS % Recov.:	95	91	91	87	108
MS/MSD Control Limits	60-140	60-140	60-140	60-140	60-140
LCS Control Limits	70-130	70-130	70-130	70-130	70-130

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

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Blaine Tech Services, Inc.
1680 Rogers Ave.
San Jose, CA 95112
Attention: Fran Thie

Client Project ID: Chevron Sig. Bulk/970603-G1
Matrix: Liquid
Work Order #: 9706167-03
Reported: Jun 12, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC061097BTEX06A	GC061097BTEX06A	GC061097BTEX06A	GC061097BTEX06A	GC060997BTEX01A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	A. Porter	A. Porter	A. Porter	A. Porter	A. Porter
MS/MSD #:	9706279-7	9706279-7	9706279-7	9706279-7	9706279-7
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	6/10/97	6/10/97	6/10/97	6/10/97	6/10/97
Analyzed Date:	6/10/97	6/10/97	6/10/97	6/10/97	6/10/97
Instrument I.D.#:	GCHP-06	GCHP-06	GCHP-06	GCHP-06	GCHP-06
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	10	10	9.9	29	70
MS % Recovery:	100	100	99	97	117
Dup. Result:	9.3	8.9	9.0	25	63
MSD % Recov.:	93	89	90	83	105
RPD:	7.3	12	9.5	15	11
RPD Limit:	0-25	0-25	0-25	0-25	0-50
LCS #:	BLK061097	BLK061097	BLK061097	BLK061097	BLK061097
Prepared Date:	6/10/97	6/10/97	6/10/97	6/10/97	6/10/97
Analyzed Date:	6/10/97	6/10/97	6/10/97	6/10/97	6/10/97
Instrument I.D.#:	GCHP-06	GCHP-06	GCHP-06	GCHP-06	GCHP-06
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	10	10	10	30	67
LCS % Recov.:	100	100	100	100	112
MS/MSD Control Limits	60-140	60-140	60-140	60-140	60-140
LCS Control Limits	70-130	70-130	70-130	70-130	70-130

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.

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Sequoia Analytical

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Blaine Tech Services, Inc.
1680 Rogers Ave.
San Jose, CA 95112
Attention: Fran Thie

Client Project ID: Chevron Sig. Bulk/970603-G1
Matrix: Liquid
Work Order #: 9706167-03

Reported: Jun 12, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Diesel
QC Batch#:	GC060697OHBPEXB
Analy. Method:	EPA 8015M
Prep. Method:	EPA 3510
Analyst:	B. Sullivan
MS/MSD #:	9706168-06
Sample Conc.:	340 µg/L
Prepared Date:	6/6/97
Analyzed Date:	6/7/97
Instrument I.D.#:	GCHP4A
Conc. Spiked:	1000 µg/L
Result:	1100
MS % Recovery:	76
Dup. Result:	1100
MSD % Recov.:	76
RPD:	0.0
RPD Limit:	0-50

LCS #:	BLK060697Bs
Prepared Date:	6/6/97
Analyzed Date:	6/7/97
Instrument I.D.#:	GCHP4A
Conc. Spiked:	1000 µg/L
LCS Result:	760
LCS % Recov.:	76

MS/MSD	50-150
LCS	60-140
Control Limits	

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

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Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Blaine Tech Services, Inc.
1680 Rogers Ave.
San Jose, CA 95112
Attention: Fran Thie

Client Project ID: Chevron Sig. Bulk/970603-G1
Matrix: Liquid
Work Order #: 9706167-01, 02, 04 thru 06
Reported: Jun 12, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Diesel
QC Batch#:	GC060697OHBPEXZ
Analy. Method:	EPA 8015M
Prep. Method:	EPA 3510

Analyst:	B. Sullivan
MS/MSD #:	9706167-01
Sample Conc.:	890 µg/L
Prepared Date:	6/6/97
Analyzed Date:	6/10/97
Instrument I.D.#:	GCHP4A
Conc. Spiked:	1000 µg/L
Result:	1700
MS % Recovery:	81
Dup. Result:	1400
MSD % Recov.:	51
RPD:	19.4
RPD Limit:	0-50

LCS #:	BLK060697Xs
Prepared Date:	6/6/97
Analyzed Date:	6/10/97
Instrument I.D.#:	GCHP4A
Conc. Spiked:	1000 µg/L
LCS Result:	770
LCS % Recov.:	77

MS/MSD	50-150
LCS	60-140
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

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Blaine Tech Services	Client Proj. ID: Chevron Sig.Bulk/970603-G1	Received: 06/04/97
1680 Rogers Avenue San Jose, CA 95112 Attention: Fran Thie	Lab Proj. ID: 9706167	Reported: 06/11/97

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 18 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

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

Chain-of-Custody-Record

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (415)842-9591

Chevron Facility Number: Former Signal Bulk Plant
Facility Address: 2001 Versailles Ave., Alameda, CA
Consultant Project Number: 970603-G1
Consultant Name: Blaine Tech Services, Inc.
Address: 1680 Rogers Ave., San Jose, CA 95112
Project Contact (Name): Fran Thie
(Phone) (408)573-0555 (Fax Number) (408)573-7771

Chevron Contact (Name): Phil Briggs
(Phone): (510) 842-9136
Laboratory Name: Sequoia
Laboratory Release Number: 9034510
Samples Collected by (Name): Morgan Gillies
Collection Date: 6/3/97
Signature:

Analyses To Be Performed 9706167

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	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					DO NOT BILL FOR TB-LB	Remarks
MW-1		5	W		1042	1	Yes	X	X							X						
MW-2		5	W		1105	2		X	X							X						
MW-3		5	W		1136	3		X	X							X						5 4 12 15
MW-4		5	W		1158	4		X	X							X						
MW-5		5	W		1012	5		X	X							X						
MW-6		5	W		945	6		X	X							X						
TB		2	W			7	↓	X	X							X						

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	BTS	6/4/97 11:57		Sequoia	6/4/97 11:57
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
		6/4/97			
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time
					12:15

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted

Field
Data
Sheets

WELL GAUGING DATA

Project # 970603-G1 Date 6/3/97 Client Chevron

Site 2001 Versailles Ave, Alameda, CA

Well I.D.	Well Size (in.)	Sheen/ Odor	Depth to Immiscible Liquid (feet)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to Water (feet)	Depth to Well Bottom (feet)	Survey Point: TOB or TOC
MW-1	2					6.69	22.47	TOC
MW-2	2					5.68	22.07	↓
MW-3	2					7.94	23.35	
MW-4	2					7.64	21.09	
MW-5	2					6.65	22.00	
MW-6	2					8.04	19.95	

CHEVRON WELL MONITORING DATA SHEET

Project #: 970603-GI	Station #: Signal Bulk Plant
Sampler: MG	Date: 6/3/97
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 22.47	Depth to Water: 6.69
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
- (X) Disposable Bailer
- Middleburg
- Electric Submersible
- Extraction Pump
- Other: ___

Sampling Method:
- Bailer
- (X) Disposable Bailer
- Extraction Port
- Other: ___

2.5 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 7.5 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1027	66.8	7.0	1000	2.5	
1032	66.0	7.0	1000	5	
1037	66.0	7.0	1000	7.5	

Did well dewater? Yes (No)	Gallons actually evacuated: 7.5
Sampling Time: 1042	Sampling Date: 6/30/97
Sample I.D.: MW-1	Laboratory: (Sequoia) GTEL N. Creek Assoc. Labs
Analyzed for: (TPH-G BTEX MTBE TPH-D) Other:	
Duplicate I.D.:	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 #: 970603-61	Station #: Signal Bulk Plant
Sampler: MG	Date: 6/3/97
Well I.D.: MW-2	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 22.07	Depth to Water: 5.68
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
- X Disposable Bailer
- Middleburg
- Electric Submersible
- Extraction Pump
- Other: _____

Sampling Method:
- Bailer
- X Disposable Bailer
- Extraction Port
- Other: _____

2.6	x	3	=	7.8 Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1054	64.6	7.0	900	2.6	
1057	64.4	7.0	900	5.2	
1101	64.6	7.0	900	8	

Did well dewater? Yes (No)		Gallons actually evacuated: 8	
Sampling Time: 1105		Sampling Date: 6/3/97	
Sample I.D.: MW-2		Laboratory: (Sequoia) GTEL N. Creek Assoc. Labs	
Analyzed for: (TPH-G BTEX MTBE TPH-D)		Other:	
Duplicate I.D.:	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 #: 970603-61	Station #: Signal Bulk Plant
Sampler: MG	Date: 6/3/97
Well I.D.: MW-3	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 23.35	Depth to Water: 7.94
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	radius² * 0.163

Purge Method:
- Bailer
- X Disposable Bailer
- Middleburg
- Electric Submersible
- Extraction Pump
- Other: _____

Sampling Method:
- Bailer
- X Disposable Bailer
- Extraction Port
- Other: _____

1 Case Volume (Gals.)		Specified Volumes		Calculated Volume
2.5	X	3	=	7.5 Gals.

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1124	65.6	7.0	1000	2.5	
1128	65.4	7.0	1100	5	
1132	65.4	7.0	1100	7.5	

Did well dewater? Yes (No)		Gallons actually evacuated: 7.5	
Sampling Time: 1136		Sampling Date: 6/3/97	
Sample I.D.: MW-3		Laboratory: (Sequoia) GTEL N. Creek Assoc. Labs	
Analyzed for: (TPH-G BTEX MTBE TPH-D)	Other:		
Duplicate I.D.:	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 #: 970603-61	Station #: Signal Bulk Plant
Sampler: MG	Date: 6/3/97
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 21.09	Depth to Water: 7.64
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
- X Disposable Bailer
- Middleburg
- Electric Submersible
- Extraction Pump
- Other: _____

Sampling Method:
- Bailer
- X Disposable Bailer
- Extraction Port
- Other: _____

2.2	x	3	=	6.6 Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1147	67.0	7.1	800	2.5	
1150	66.4	7.1	800	5	
1153	66.8	7.1	800	7	

Did well dewater? Yes (No)		Gallons actually evacuated: 7	
Sampling Time: 1158		Sampling Date: 6/3/97	
Sample I.D.: MW-4		Laboratory: (Sequoia) GTEL N. Creek Assoc. Labs	
Analyzed for: (TPH-G BTEX MTBE TPH-D) Other:			
Duplicate I.D.:	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 #: 970603-G1	Station #: Signal Bulk Plant
Sampler: MG	Date: 6/3/97
Well I.D.: MW-5	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 22.00	Depth to Water: 6.65
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	radius² * 0.163

Purge Method:
- Bailer
- X Disposable Bailer
- Middleburg
- Electric Submersible
- Extraction Pump
- Other: ___

Sampling Method:
- Bailer
- X Disposable Bailer
- Extraction Port
- Other: ___

2.5 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 7.5 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1000	66.0	7.2	570	2.5	
1004	66.0	7.2	540	5	
1008	66.0	7.3	550	7.5	

Did well dewater? Yes (No)		Gallons actually evacuated: 7.5	
Sampling Time: 1012		Sampling Date: 6/3/97	
Sample I.D.: MW-5		Laboratory: (Sequoia) GTEL N. Creek Assoc. Labs	
Analyzed for: (TPH-G BTEX MTBE TPH-D)		Other:	
Duplicate I.D.:	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 #: 970603-61	Station #: Signal Bulk Plant
Sampler: MB	Date: 6/3/97
Well I.D.: MW-6	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 19.95	Depth to Water: 8.04
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	radius² * 0.163

Purge Method:
- Bailer
- X Disposable Bailer
- Middleburg
- Electric Submersible
- Extraction Pump
- Other: ___

Sampling Method:
- Bailer
- X Disposable Bailer
- Extraction Port
- Other: ___

1A	x	3	=	5.7 Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
934	67.2	7.4	900	2	
938	67.2	7.3	800	4	
942	67.0	7.3	800	6	

Did well dewater? Yes (No)		Gallons actually evacuated: 6	
Sampling Time: 945		Sampling Date: 6/3/97	
Sample I.D.: MW-6		Laboratory: (Sequoia) GTEL N. Creek Assoc. Labs	
Analyzed for: (TPH-G BTEX MTBE TPH-D) Other:			
Duplicate I.D.:	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