Chevron

607

December 26, 1995

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

Mark A. Miller
SAR Engineer
Phone No. 510 842-8134
Fax No 510 842-8252

95 DEC 28 PM 2:28

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, CA

Dear Mr. Chan:

Enclosed is the Fourth Quarter 1995 Groundwater Monitoring report dated November 17, 1995, prepared by our consultant Blaine Tech Services, Inc. for the above referenced site. As indicated in the report, ground water samples collected were analyzed for total petroleum hydrocarbons as gasoline (TPH-G), BTEX, and total petroleum hydrocarbons as diesel (TPH-D).

Dissolved concentrations of TPH-G and BTEX constituents observed during the past quarter were below method detection limits in all wells. Concentrations of TPH-D were detected in MW-1 through MW-4, however the chromatogram pattern observed was not consistent with motor fuel hydrocarbons. Depth to ground water was measured at approximately 6.5 to 9.1 feet below grade and the direction of flow is to the north-northeast.

After discussing the unidentified hydrocarbon pattern observed on the chromatogram with the analytical laboratory, it appears that the unidentified peaks are an artifact of the sampling process we are currently experiencing with a number of TPH-D samples. The lab indicates that the miscellaneous peaks have been subtracted out of the quantitation so that only TPH-D results are reported. We are working with our laboratory and sampling consultant to find a solution to this problem.

Thank you for your letter of November 28, 1995. As requested, we will include analysis of EPA Methods 8010 and 8270 for monitor well MW-5. Should concentrations of these constituents be below method detection limits, they will be discontinued from the sampling program.

If you have any questions or comments, please feel free to call me at (510) 842-8134.

Sincerely,
CHEVRON U.S.A. PRODUCTS COMPANY

Mark A. Miller
Site Assessment and Remediation Engineer

Enclosure

cc: Ms. B.C. Owen

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

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

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

BLAINE
TECH SERVICES INC.

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

November 17, 1995

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

Fourth Quarter 1995 Groundwater Monitoring at
2001 Versailles Avenue
Alameda, CA

Monitoring Performed on October 27, 1995

Groundwater Sampling Report **951027-W-1**

This report covers the routine quarterly monitoring of groundwater wells at this Chevron facility. Blaine Tech Services, Inc.'s work at the site includes inspection, gauging, evacuation, purgewater containment, sample collection and sample handling in accordance with standard procedures that conform to Regional Water Quality Control Board requirements.

Routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated volume of a three-case volume purge, elapsed evacuation time, total volume of water removed, and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater is, likewise, collected and transported to Chevron's Richmond Refinery for disposal.

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

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

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

Please call if you have any questions.

Yours truly,

James Keller
Vice President

JPK/dk

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

Professional Engineering Appendix

Table of
Well Data and
Analytical Results

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet. Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	TPH-Diesel	TDS(ppm)	MTBE
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
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
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
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
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

* Unknown hydrocarbon found in diesel range qualified as diesel.
** 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
MW-6												
05/31/94	--	--	--	--	ND	ND	ND	ND	ND	ND	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
TAP HOSE												
06/01/94	--	--	--	--	ND	ND	ND	ND	ND	ND	--	--
WELL												
06/02/94	--	--	--	--	ND	ND	ND	ND	ND	ND	--	--
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	--	--	--

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

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 Technical Services	Client Proj. ID: Chevron FSBP, 951027-W1	Sampled: 10/27/95
985 Timothy Drive	Sample Descript: MW1	Received: 10/30/95
San Jose, CA 95133	Matrix: LIQUID	Extracted: 11/01/95
	Analysis Method: EPA 8015 Mod	Analyzed: 11/04/95
Attention: Jim Keller	Lab Number: 9510L30-01	Reported: 11/07/95

QC Batch Number: GC1101950HBPEXZ
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	**50**	**1100**
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

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Blaine Technical Services
985 Timothy Drive
San Jose, CA 95133

Attention: Jim Keller

Client Proj. ID: Chevron FSBP, 951027-W1
Sample Descript: MW1
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9510L30-01

Sampled: 10/27/95
Received: 10/30/95

Analyzed: 11/01/95
Reported: 11/07/95

QC Batch Number: GC110195BTEX21A
Instrument ID: GCHP21

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

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

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	96

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

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Blaine Technical Services	Client Proj. ID: Chevron FSBP, 951027-W1	Sampled: 10/27/95
985 Timothy Drive	Sample Descript: MW2	Received: 10/30/95
San Jose, CA 95133	Matrix: LIQUID	Extracted: 11/01/95
	Analysis Method: EPA 8015 Mod	Analyzed: 11/04/95
Attention: Jim Keller	Lab Number: 9510L30-02	Reported: 11/07/95

QC Batch Number: GC1101950HBPEXZ
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	**50**	**710**
Chromatogram Pattern:	**C9-C24**	**Unidentified HC**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	137

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

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Peggy Penner
Project Manager

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Blaine Technical Services
985 Timothy Drive
San Jose, CA 95133

Attention: Jim Keller

Client Proj. ID: Chevron FSBP, 951027-W1
Sample Descript: MW2
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9510L30-02

Sampled: 10/27/95
Received: 10/30/95

Analyzed: 11/01/95
Reported: 11/07/95

QC Batch Number: GC110195BTEX21A
Instrument ID: GCHP21

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

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

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	97

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

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Peggy Penner
Project Manager

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Blaine Technical Services	Client Proj. ID: Chevron FSBP, 951027-W1	Sampled: 10/27/95
985 Timothy Drive	Sample Descript: MW3	Received: 10/30/95
San Jose, CA 95133	Matrix: LIQUID	Extracted: 11/01/95
	Analysis Method: EPA 8015 Mod	Analyzed: 11/04/95
Attention: Jim Keller	Lab Number: 9510L30-03	Reported: 11/07/95

QC Batch Number: GC1101950HBPEXZ
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	**50**	**870**
Chromatogram Pattern:	**C9-C24**	**Unidentified HC**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	130

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 Technical Services
985 Timothy Drive
San Jose, CA 95133

Attention: Jim Keller

Client Proj. ID: Chevron FSBP, 951027-W1
Sample Descript: MW3
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9510L30-03

Sampled: 10/27/95
Received: 10/30/95

Analyzed: 11/01/95
Reported: 11/07/95

QC Batch Number: GC110195BTEX17A
Instrument ID: GCHP17

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

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Blaine Technical Services
985 Timothy Drive
San Jose, CA 95133

Attention: Jim Keller

Client Proj. ID: Chevron FSBP, 951027-W1
Sample Descript: MW4
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9510L30-04

Sampled: 10/27/95
Received: 10/30/95
Extracted: 11/01/95
Analyzed: 11/04/95
Reported: 11/07/95

QC Batch Number: GC1101950HBPEXZ
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	**50**	**570**
Chromatogram Pattern:	**C9-C24**	**Unidentified HC**
Surrogates	**Control Limits %**	**% Recovery**
n-Pentacosane (C25)	50 150	128

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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Blaine Technical Services
985 Timothy Drive
San Jose, CA 95133

Attention: Jim Keller

Client Proj. ID: Chevron FSBP, 951027-W1
Sample Descript: MW4
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9510L30-04

Sampled: 10/27/95
Received: 10/30/95

Analyzed: 11/01/95
Reported: 11/07/95

QC Batch Number: GC110195BTEX21A
Instrument ID: GCHP21

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

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

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	98

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

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Blaine Technical Services	Client Proj. ID: Chevron FSBP, 951027-W1	Sampled: 10/27/95
985 Timothy Drive	Sample Descript: MW5	Received: 10/30/95
San Jose, CA 95133	Matrix: LIQUID	Extracted: 11/01/95
	Analysis Method: EPA 8015 Mod	Analyzed: 11/04/95
Attention: Jim Keller	Lab Number: 9510L30-05	Reported: 11/07/95

QC Batch Number: GC1101950HBPEXZ
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	131

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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Blaine Technical Services
985 Timothy Drive
San Jose, CA 95133

Attention: Jim Keller

Client Proj. ID: Chevron FSBP, 951027-W1
Sample Descript: MW5
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9510L30-05

Sampled: 10/27/95
Received: 10/30/95

Analyzed: 11/01/95
Reported: 11/07/95

QC Batch Number: GC110195BTEX21A
Instrument ID: GCHP21

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

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

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	95

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

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Peggy Penner
Project Manager

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Blaine Technical Services	Client Proj. ID: Chevron FSBP, 951027-W1	Sampled: 10/27/95
985 Timothy Drive	Sample Descript: MW6	Received: 10/30/95
San Jose, CA 95133	Matrix: LIQUID	Extracted: 11/01/95
	Analysis Method: EPA 8015 Mod	Analyzed: 11/04/95
Attention: Jim Keller	Lab Number: 9510L30-06	Reported: 11/07/95

QC Batch Number: GC1101950HBPEXZ
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	93

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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Blaine Technical Services
985 Timothy Drive
San Jose, CA 95133

Attention: Jim Keller

Client Proj. ID: Chevron FSBP, 951027-W1
Sample Descript: MW6
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9510L30-06

Sampled: 10/27/95
Received: 10/30/95

Analyzed: 11/01/95
Reported: 11/07/95

QC Batch Number: GC110195BTEX21A
Instrument ID: GCHP21

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

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

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	94

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

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Peggy Penner
Project Manager

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

Blaine Technical Services	Client Proj. ID: Chevron FSBP, 951027-W1	Sampled: 10/27/95
985 Timothy Drive	Sample Descript: TB	Received: 10/30/95
San Jose, CA 95133	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 11/01/95
Attention: Jim Keller	Lab Number: 9510L30-07	Reported: 11/07/95

QC Batch Number: GC110195BTEX21A
Instrument ID: GCHP21

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

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

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	93

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 Technical Services
985 Timothy Drive
San Jose, CA 95133
Attention: Jim Keller

Client Proj. ID: Chevron FSBP, 951027-W1
Lab Proj. ID: 9510L30

Received: 10/30/95
Reported: 11/07/95

LABORATORY NARRATIVE

No issues.

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

Sequoia Analytical

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

Client Project ID: Chevron FSBP/ 951027-W1
Matrix: Liquid
Work Order #: 9510L30 -03

Reported: Nov 9, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC110195BTEX17A	GC110195BTEX17A	GC110195BTEX17A	GC110195BTEX17A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	J. Woo	J. Woo	J. Woo	J. Woo
MS/MSD #:	9510F4007	9510F4007	9510F4007	9510F4007
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	11/1/95	11/1/95	11/1/95	11/1/95
Analyzed Date:	11/1/95	11/1/95	11/1/95	11/1/95
Instrument I.D.#:	GCHP17	GCHP17	GCHP17	GCHP17
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	9.6	9.8	9.7	30
MS % Recovery:	96	98	97	100
Dup. Result:	10	10	10	31
MSD % Recov.:	100	100	100	103
RPD:	4.1	2.0	3.0	3.3
RPD Limit:	0-50	0-50	0-50	0-50
LCS #:	BLK102795	BLK102795	BLK102795	BLK102795
Prepared Date:	11/1/95	11/1/95	11/1/95	11/1/95
Analyzed Date:	11/1/95	11/1/95	11/1/95	11/1/95
Instrument I.D.#:	GCHP17	GCHP17	GCHP17	GCHP17
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	10	10	10	31
LCS % Recov.:	100	100	100	103
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.

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

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

Client Project ID: Chevron FSBP / 951027-W1
Matrix: Liquid
Work Order #: 9510L30-01-02, 04-06
Reported: Nov 9, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC110195BTEX21A	GC110195BTEX21A	GC110195BTEX21A	GC110195BTEX21A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	B. Sullivan	B. Sullivan	B. Sullivan	B. Sullivan
MS/MSD #:	9510F4007	9510F4007	9510F4007	9510F4007
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	11/1/95	11/1/95	11/1/95	11/1/95
Analyzed Date:	11/1/95	11/1/95	11/1/95	11/1/95
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	11	12	12	36
MS % Recovery:	110	120	120	120
Dup. Result:	10	11	11	33
MSD % Recov.:	100	110	110	110
RPD:	9.5	8.7	8.7	8.7
RPD Limit:	0-50	0-50	0-50	0-50
LCS #:	BLK102695	BLK102695	BLK102695	BLK102695
Prepared Date:	11/1/95	11/1/95	11/1/95	11/1/95
Analyzed Date:	11/1/95	11/1/95	11/1/95	11/1/95
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	10	10	10	31
LCS % Recov.:	100	100	100	103
MS/MSD LCS Control Limits	71-133	72-128	72-130	71-120

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

Please Note:
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** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

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

Client Project ID: Chevron FSBP / 951027-W1
Matrix: Liquid
Work Order #: 9510L30-01-06
Reported: Nov 9, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Diesel
QC Batch#:	GC1101950HBPEXZ
Analy. Method:	EPA 8015M
Prep. Method:	EPA 3520
Analyst:	B. Ali
MS/MSD #:	9510L8002
Sample Conc.:	580
Prepared Date:	11/1/95
Analyzed Date:	11/3/95
Instrument I.D.#:	GCHP4
Conc. Spiked:	1000 µg/L
Result:	1500
MS % Recovery:	92
Dup. Result:	1400
MSD % Recov.:	82
RPD:	6.9
RPD Limit:	0-50

LCS #:	BLK110195
Prepared Date:	11/1/95
Analyzed Date:	11/3/95
Instrument I.D.#:	GCHP4
Conc. Spiked:	1000 µg/L
LCS Result:	1000
LCS % Recov.:	100

MS/MSD LCS Control Limits	38-122

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

Please Note:
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** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

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: 951027-W1
Consultant Name: Blaine Tech Services, Inc.
Address: 985 Timothy Dr., San Jose, CA 95133
Project Contact (Name): Jim Keller
(Phone) 408 995-5535 (Fax Number) 408 293-8773

Chevron Contact (Name): Mark Miller
(Phone): (510) 842-8134
Laboratory Name: Sequoia
Laboratory Release Number: 3442430
Samples Collected by (Name): Dave
Collection Date: 10-27-95
Signature: D. Maddaloni

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	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	Remarks
MW1		5	W		1540	HCl	Y	X	X							X	02 A-E
MW2		5	W		1336		Y	X	X							X	
MW3		5	W		1416		Y	X	X							X	
MW4		5	W		1450		Y	X	X							X	
MW5		5	W		1244		Y	X	X							X	
MW6		5	W		1202		Y	X	X							X	
TB		2	W				Y	X	~~X~~								07 A,B

DO NOT BILL
FOR TB-LB
9510L20

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
D. Maddaloni	BTS	10/30/95 9:40		Sequoia	10/30/95 9:10
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
		10/30/95			
By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time
					10/30/95 1126

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

91/MCH

Field
Data
Sheets

WELL GAUGING DATA

Project # 951027-W1 Date 10-27-95 Client CHEVRON

Site 2001 VERSAILLES AVE ALAMEDA

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
MW1	2					7.39	22.43	TOC
MW2	2					6.47	22.08	"
MW3	2					8.83	23.37	"
MW4	2					8.65	21.04	"
MW5	2					7.78	22.01	"
MW6	2					9.12	20.68	"

CHEVRON WELL MONITORING DATA SHEET

Project #: 951027-W1	Station #: FORMER SIGNAL BULK PLANT
Sampler: Dave	Start Date: 10-27-95
Well I.D.: MW1	Well Diameter: (circle one) (2) 3 4 6 ___
Total Well Depth: Before 22.43 After	Depth to Water: Before ~~7.39~~ After 16.15
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: (PVC) Grade	Other:

Well Diameter	VCF	Well Diameter	VCF
1"	~~0.04~~	6"	1.47
2"	(0.16)	8"	2.61
3"	~~0.37~~	10"	4.08
4"	0.65	12"	5.87
5"	1.02	16"	10.43

2.4 (1 Case Volume) x 3 (Specified Volumes) = 7.2 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:
1520	69.2	7.0	1200	—	3	
~~1537~~	~~69.0~~	~~7.3~~	~~1150~~	—	~~6~~	
1522	(~~DEWATERED~~ @ 3 GAL)				~~8~~	
1536	DTW @ 16.15'					
1537	69.0	7.3	1150	—		

Did Well Dewater? YES If yes, gals. 5.5 Gallons Actually Evacuated: 6.5

Sampling Time: 1540 Sampling Date: 10-27-95

Sample I.D.: MW1 Laboratory: SEQ.

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

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

Analyzed for: TPH-G BTEX TPH-D OTHER:

CHEVRON WELL MONITORING DATA SHEET

Project #: 951027-W1	Station #: FORMER SIGNAL BULK PLANT
Sampler: Dave	Start Date: 10-27-95
Well I.D.: MW2	Well Diameter: (circle one) (2) 3 4 6 ___
Total Well Depth: Before 22.08 After	Depth to Water: Before 6.47 After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: (PVC) Grade Other:	

Well Diameter	VCF	Well Diameter	VCF
1"	0.04	6"	1.47
2"	0.16	8"	2.61
3"	0.37	10"	4.08
4"	0.65	12"	5.87
5"	1.02	16"	10.43

2.5 (1 Case Volume) x 3 (Specified Volumes) = 7.5 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:
1322	70.4	7.0	1100	—	3	
1329	69.8	7.0	1100	—	6	
1333	69.0	7.0	1100	—	8	

Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 8

Sampling Time: 1336 Sampling Date: 10-27-95

Sample I.D.: MW2 Laboratory: SEQ

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

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

Analyzed for: TPH-G BTEX TPH-D OTHER:

CHEVRON WELL MONITORING DATA SHEET

Project #: 951027-W1	Station #: FORMER SIGNAL BULK PLANT
Sampler: Dave	Start Date: 10-27-95
Well I.D.: MW3	Well Diameter: (circle one) (2) 3 4 6 ___
Total Well Depth: Before 23.37 After	Depth to Water: Before 8.83 After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: (PVC) Grade Other:	

Well Diameter	VCF	Well Diameter	VCF
1"	0.04	6"	1.47
(2)"	(0.16)	8"	2.61
3"	0.37	10"	4.08
4"	0.65	12"	5.87
5"	1.02	16"	10.43

2.3 (1 Case Volume) x 3 (Specified Volumes) = 6.9 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:
1403	69.2	6.8	1200	—	3	SLIGHT ODOR
1409	68.6	6.8	1200	—	5	
1413	68.6	6.8	1100	—	7	

Did Well Dewater? No If yes, gals. Gallons Actually Evacuated: 7

Sampling Time: 1416 Sampling Date: 10-27-95

Sample I.D.: MW3 Laboratory: SEQ

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

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

Analyzed for: TPH-G BTEX TPH-D OTHER:

CHEVRON WELL MONITORING DATA SHEET

Project #: 951027-W1	Station #: FORMER SIGNAL BULK PLANT
Sampler: Dave	Start Date: 10-27-95
Well I.D.: MW4	Well Diameter: (circle one) (2) 3 4 6 ___
Total Well Depth: Before 21.04 After	Depth to Water: Before 8.65 After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: (PVC) Grade Other:	

Well Diameter	VCF	Well Diameter	VCF
1"	~~0.04~~	6"	1.47
2"	0.16	8"	2.61
~~3"~~	~~0.37~~	10"	4.08
4"	0.65	12"	5.87
5"	1.02	16"	10.43

2.0 (1 Case Volume) x 3 (Specified Volumes) = 6.0 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:
1438	70.0	7.2	1100	—	2	
1442	69.4	7.2	1100	—	4	
1446	69.4	7.2	1100	—	6	

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

Sampling Time: 1450 Sampling Date: 10-27-95

Sample I.D.: MW4 Laboratory: SEQ.

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

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

Analyzed for: TPH-G BTEX TPH-D OTHER:

CHEVRON WELL MONITORING DATA SHEET

Project #: 951027-W1	Station #: FORMER SIGNAL BULK PLANT
Sampler: Dave	Start Date: 10-27-95
Well I.D.: MW5	Well Diameter: (circle one) (2) 3 4 6 ___
Total Well Depth: 22.01 Before / After	Depth to Water: 7.78 Before / After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: (PVC) Grade Other:	

Well Diameter	VCF	Well Diameter	VCF
1"	0.04	6"	1.47
2"	0.16	8"	2.61
3"	0.37	10"	4.08
4"	0.65	12"	5.87
5"	1.02	16"	10.43

2.3 (1 Case Volume) x 3 (Specified Volumes) = 6.9 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:
1229	68.0	7.8	500	—	3	
1235	67.8	7.6	550	—	5	
1240	67.8	7.5	550	—	7	

Did Well Dewater? No If yes, gals. Gallons Actually Evacuated: 7

Sampling Time: 1244 Sampling Date: 10-27-95

Sample I.D.: MW5 Laboratory: SEQ

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

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

Analyzed for: TPH-G BTEX TPH-D OTHER:

CHEVRON WELL MONITORING DATA SHEET

Project #: 951027-W1	Station #: FORMER SIGNAL BULK PLANT
Sampler: Dave	Start Date: 10-27-95
Well I.D.: MW6	Well Diameter: (circle one) (2) 3 4 6 ___
Total Well Depth: Before 20.68 After	Depth to Water: Before 9.12 After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: (PVC) Grade Other:	

Well Diameter	VCF	Well Diameter	VCF
1"	0.04	6"	1.47
2"	0.16	8"	2.61
3"	0.37	10"	4.08
4"	0.65	12"	5.87
5"	1.02	16"	10.43

1.8 (1 Case Volume) x 3 (Specified Volumes) = 5.4 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:
1149	70.0	7.3	800	~~>200~~	2	
1153	69.6	7.2	800	~~>200~~	4	
1159	69.2	7.2	800	—	6	

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

Sampling Time: 1202 Sampling Date: 10-27-95

Sample I.D.: MW6 Laboratory: SEQUOIA

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

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

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