Chevron

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

February 18, 1997

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

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

Dear Ms. Shin:

Enclosed is the Third and Fourth Quarter Groundwater Monitoring Reports for 1996, that were prepared by our consultant Blaine Tech Services Inc. for the above noted site. Ground water samples were collected and analyzed for TPH-g, BTEX and MtBE constituents.

In the last quarterly monitoring report cover letter, I had noted that I had received survey data that Chevron expected would determine the location of monitoring well C-3. Chevron's consultant had not been able to locate this well for sampling the last five sampling events , which appeared to have been due to construction activity that had occurred previously at the site. However, Blaine Tech was able to locate well C-3 from the survey data and samples were taken in the third and fourth quarters.

Concentrations of BTEX constituents were below method detection limits in monitoring wells C-1, C-5 and C-7. The benzene constituent for wells C-2 and C-3 were below method detection limits in the third quarter, but detected concentrations of 13 ppb and 9.7 ppb of benzene in the fourth quarter. Well C-6 detected 5.4 ppb of benzene constituent in the third quarter but only 0.66 ppb in the fourth quarter.

Depth to ground water varied from 8.30 feet to 10.49 feet below grade with a direction of flow westerly in the third quarter. In the fourth quarter, the depth to ground water varied from 7.32 feet to 9.67 feet below grade with a direction of flow to the southeast.

This site appears to be a low risk groundwater case and Chevron requests that this site be considered for closer and the monitoring wells properly abandoned. The source leak has been removed and the site has been characterized in that the dissolved hydrocarbons are not migrating. No aquifers are drinking water sources appear to be impacted and the site does not appear to be a significant risk to human health or to the environment. A Health Risk Evaluation has also been done on this site and the conclusions support, that there is no significant threat to human health. Your department concurred in this analysis in your letter dated September 13, 1996.

Chevron will continue to monitor the wells quarterly until approval is received for closer. If you have any questions, call me at (510) 842-9136.

Sincerely,
CHEVRON PRODUCTS COMPANY

Philip R. Briggs
Site Assessment and Remediation Manager

Enclosure

cc. Ms. Bette Owen, Chevron

Mr. Lawrence E. Cogan *
Ware & Freidenrich
400 Hamilton Avenue
Palo Alto, CA 94301

Mr. Michael Meniktas *
Meniktas & Associates
3440 Lakeshore Avenue, Suite 206
Oakland, CA 94610

* Mr. Mark Miller has been transferred to another position within Chevron and I have taken over the responsibility of this site. I am enclosing you a copy of the ACHCS letter dated September 13, 1996.

BLAINE
TECH SERVICES INC.

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

October 16, 1996

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

3rd Quarter 1996 Monitoring at 9-5630

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

Monitoring Performed on September 12, 1996

Groundwater Sampling Report **960912-J-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	TOG	MTBE
C-1											
12/05/90	24.08	11.64	12.44	--	<50	<0.5	<0.5	<0.5	<0.5	<5000	--
09/06/91	23.88	10.68	13.20	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/04/91	23.88	12.17	11.71	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/02/92	23.88	14.45	9.43	--	<50	<0.5	<0.5	<0.5	<0.5	<5000	--
06/03/92	23.88	13.74	10.14	--	<50	1.4	1.5	0.6	3.0	--	--
09/02/92	23.88	12.09	11.79	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/01/92	23.88	12.10	11.78	--	<50	0.6	3.5	0.7	3.4	--	--
03/23/93	23.88	15.94	7.94	--	200	13	8.7	<0.5	10	--	--
06/15/93	23.88	14.49	9.39	--	74	1.4	5.2	1.6	11	--	--
09/07/93	23.88	13.16	10.72	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
11/30/94	23.88	14.80	9.08	--	--	--	--	--	--	--	--
02/01/95	23.88	16.57	7.31	--	--	--	--	--	--	--	--
09/13/95	23.88	13.86	10.02	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/29/95	23.88	14.88	9.00	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
03/08/96	23.88	16.81	7.07	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
06/12/96	23.88	15.13	8.75	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
09/12/96	23.88	13.39	10.49	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
C-2											
12/05/90	22.69	11.39	11.30	--	<50	0.7	<0.5	<0.5	0.5	--	--
09/06/91	21.54	10.54	11.00	--	<50	1.3	0.6	0.7	1.5	--	--
12/04/91	21.54	12.16	9.38	--	--	--	--	--	--	--	--
04/02/92	21.54	14.21	7.33	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/03/92	21.54	12.55	8.99	--	180	12	13	7.9	21	--	--
09/02/92	21.54	11.95	9.59	--	630	14	30	18	54	--	--
12/01/92	21.54	11.96	9.58	--	1000	47	83	51	150	--	--
03/23/93	21.54	15.24	6.30	--	80	5.0	7.9	6.0	18	--	--
06/15/93	21.54	14.27	7.27	--	220	9.0	16	12	37	--	--
09/07/93	21.54	12.99	8.55	--	200	13	21	15	43	--	--
09/13/95	21.54	7.86	13.68	--	<50	<0.5	0.60	0.84	2.3	--	--
12/29/95	21.54	14.52	7.02	--	<50	2.7	<0.5	<0.5	<0.5	--	<2.5
03/08/96	21.54	16.08	5.46	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
06/12/96	21.54	15.00	6.54	--	<50	<0.5	<0.5	0.99	2.5	--	<2.5
09/12/96	21.54	13.18	8.36	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5

Cumulative Table of Well Data and Analytical Results

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

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	TOG	MTBE
C-3											
12/05/90	23.45	11.70	11.75	--	<50	1.0	0.7	<0.5	<0.5	--	--
09/06/91	22.40	10.78	11.62	--	1100	150	0.6	51	1.9	--	--
12/04/91	22.40	12.26	10.14	--	89	<0.5	<0.5	0.7	0.6	--	--
04/02/92	22.40	14.33	8.07	--	60	2.1	1.3	1.1	3.2	--	--
06/03/92	22.40	13.77	8.63	--	7600	94	86	26	89	--	--
09/02/92	22.40	12.10	10.30	--	<50	<0.5	<0.5	<0.5	0.9	--	--
12/01/92	22.40	12.16	10.24	--	54	0.8	5.7	1.1	5.9	--	--
03/23/93	22.40	15.57	6.83	--	<50	1.1	1.4	<0.5	1.7	--	--
06/15/93	22.40	14.45	7.95	--	67	1.3	3.9	1.1	7.8	--	--
09/07/93	22.40	--	--	Inaccessible	--	--	--	--	--	--	--
09/13/95	22.40	--	--	Inaccessible	--	--	--	--	--	--	--
12/29/95	22.40	--	--	Inaccessible	--	--	--	--	--	--	--
03/08/96	22.40	--	--	Inaccessible	--	--	--	--	--	--	--
06/12/96	22.40	--	--	Inaccessible	--	--	--	--	--	--	--
09/12/96	22.40	13.34	9.06	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
C-4											
12/05/90	23.32	11.47	11.85	--	<50	4.0	2.0	0.7	3.0	--	--
09/06/91	--	--	--	Well destroyed	--	--	--	--	--	--	--
C-5											
02/16/93	22.01	15.37	6.64	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/23/93	22.01	15.41	6.60	--	<50	<1.5	0.9	<0.5	<1.5	--	--
06/15/93	22.01	13.91	8.10	--	70	0.7	1.7	<0.5	2.8	--	--
09/07/93	22.01	12.61	9.40	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
11/30/94	22.01	14.25	7.76	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/01/95	22.01	15.94	6.07	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/13/95	22.01	13.29	8.72	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/29/95	22.01	14.31	7.70	--	<50	<0.5	<0.5	<0.5	<0.5	--	7.3
03/08/96	22.01	16.14	5.87	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
06/12/96	22.01	15.33	6.68	--	<50	<0.5	<0.5	<0.5	<0.5	--	5.7
09/12/96	22.01	12.73	9.28	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5

Cumulative Table of Well Data and Analytical Results

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

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	TOG	MTBE
C-6											
08/17/94	21.42	5.40	16.02	--	430	0.7	2.7	<0.5	28	--	--
11/30/94	21.42	14.16	7.26	--	610	2.1	0.57	30	14	--	--
02/01/95	21.42	14.77	6.65	--	210	<0.5	<0.5	<0.5	0.94	--	--
09/13/95	21.42	13.64	7.78	--	860	4.6	<0.5	40	0.52	--	--
12/29/95	21.42	14.63	6.79	--	1900	7.4	<2.5	86	<2.5	--	2.0
03/08/96	21.42	16.01	5.41	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
06/12/96	21.42	14.93	6.49	--	270	0.84	<0.5	10	<0.5	--	13
09/12/96	21.42	13.12	8.30	--	400	5.4	<0.5	27	<0.5	--	11
C-7											
08/17/94	23.21	13.14	10.07	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/30/94	23.21	14.73	8.48	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/01/95	23.21	15.99	7.22	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/13/95	23.21	13.71	9.50	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/29/95	23.21	14.77	8.44	--	<50	<0.5	<0.5	<0.5	<0.5	--	4.4
03/08/96	23.21	16.15	7.06	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
06/12/96	23.21	14.88	8.33	--	<50	<0.5	<0.5	<0.5	<0.5	--	4.4
09/12/96	23.21	13.19	10.02	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5

Cumulative Table of Well Data and Analytical Results

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

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

Cumulative Table of Well Data and Analytical Results

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

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	TOG	MTBE
BAILER BLANK											
09/06/91	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/04/91	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/02/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/03/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/02/92	--	--	--	--	<50	<0.5	<0.5	<0.5	0.4	--	--
12/01/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/23/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/15/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
09/07/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--

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

ABBREVIATIONS:
TPH = Total Petroleum Hydrocarbons
ND = Not detected at or above the minimum quantitation limit. See laboratory reports for minimum quantitation limits.
TOG = Total Oil & Grease
MTBE = Methyl t-butyl ether

Analytical Appendix

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 9-5630/960912-J2	Sampled: 09/12/96
985 Timothy Drive	Sample Descript: C-1	Received: 09/13/96
San Jose, CA 95133	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 09/20/96
Attention: Jim Keller	Lab Number: 9609779-01	Reported: 09/26/96

QC Batch Number: GC092096BTEX22A
Instrument ID: GCHP22

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	71

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
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Blaine Technical Services	Client Proj. ID: Chevron 9-5630/960912-J2	Sampled: 09/12/96
985 Timothy Drive	Sample Descript: C-2	Received: 09/13/96
San Jose, CA 95133	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 09/20/96
Attention: Jim Keller	Lab Number: 9609779-02	Reported: 09/26/96

QC Batch Number: GC092096BTEX22A
Instrument ID: GCHP22

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	80

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 9-5630/960912-J2
Sample Descript: C-3
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9609779-03

Sampled: 09/12/96
Received: 09/13/96

Analyzed: 09/20/96
Reported: 09/26/96

QC Batch Number: GC092096BTEX22A
Instrument ID: GCHP22

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	76

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 Technical Services	Client Proj. ID: Chevron 9-5630/960912-J2	Sampled: 09/12/96
985 Timothy Drive	Sample Descript: C-5	Received: 09/13/96
San Jose, CA 95133	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 09/20/96
Attention: Jim Keller	Lab Number: 9609779-04	Reported: 09/26/96

QC Batch Number: GC092096BTEX22A
Instrument ID: GCHP22

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	81

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 9-5630/960912-J2
Sample Descript: C-6
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9609779-05

Sampled: 09/12/96
Received: 09/13/96

Analyzed: 09/20/96
Reported: 09/26/96

QC Batch Number: GC092096BTEX22A
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**50**	**400**
Methyl t-Butyl Ether	**2.5**	**11**
Benzene	**0.50**	**5.4**
Toluene	0.50	N.D.
Ethyl Benzene	**0.50**	**27**
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	107

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 9-5630/960912-J2
Sample Descript: C-7
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9609779-06

Sampled: 09/12/96
Received: 09/13/96

Analyzed: 09/20/96
Reported: 09/26/96

QC Batch Number: GC092096BTEX22A
Instrument ID: GCHP22

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	75

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 9-5630/960912-J2
Sample Descript: TB
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9609779-07

Sampled: 09/12/96
Received: 09/13/96

Analyzed: 09/20/96
Reported: 09/26/96

QC Batch Number: GC092096BTEX22A
Instrument ID: GCHP22

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	74

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

Client Project ID: Chevron 9-5630 / 960912-J2
Matrix: Liquid

Work Order #: 9609779 -01-06

Reported: Sep 30, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC092096BTEX22A	GC092096BTEX22A	GC092096BTEX22A	GC092096BTEX22A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	H. Porter	H. Porter	H. Porter	H. Porter
MS/MSD #:	960978708	960978708	960978708	960978708
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	9/20/96	9/20/96	9/20/96	9/20/96
Analyzed Date:	9/20/96	9/20/96	9/20/96	9/20/96
Instrument I.D.#:	GCHP22	GCHP22	GCHP22	GCHP22
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	11	9.6	9.2	29
MS % Recovery:	110	96	92	97
Dup. Result:	11	10	9.7	30
MSD % Recov.:	110	100	97	100
RPD:	0.0	4.1	5.3	3.4
RPD Limit:	0-25	0-25	0-25	0-25
LCS #:	BLK092096	BLK092096	BLK092096	BLK092096
Prepared Date:	9/20/96	9/20/96	9/20/96	9/20/96
Analyzed Date:	9/20/96	9/20/96	9/20/96	9/20/96
Instrument I.D.#:	GCHP22	GCHP22	GCHP22	GCHP22
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	11	9.6	9.2	29
LCS % Recov.:	110	96	92	97
MS/MSD	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130
Control Limits				

SEQUOIA ANALYTICAL

Peggy Renner
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

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: 9-5630
Facility Address: 997 Grant Ave., San Lorenzo CA
Consultant Project Number: 960912-S2
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: 2268280
Samples Collected by (Name): Matt Sayles
Collection Date: 9/12/96
Signature:

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)	Analyses To Be Performed: 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
C-1	01	3	W	D	1035	HCl	Y	X								X					DO NOT BILL FOR TB-LB 9609779
C-2	02	3			1105			X								X					
C-3	03	3			1155			X								X					
C-5	04	3			945			X								X					
C-6	05	3			1155			X								X					
C-7	06	3			1010			X								X					
TB	07	2						X													

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	BTS	9/13/1000		SEQUOIA	9/13/1000
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	SEQUOIA	9/13/1408			
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time
					9/13/96 1408

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

Field
Data
Sheets

WELL GAUGING DATA

Project # 960912-S2 Date 9/12/96 Client Chevron 7630

Site 997 Grant Ave. / San Lorenzo

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
C-1	2					10.49	27.24	TOC
C-2	2					8.36	24.65	
C-3	2					9.06	25.90	
C-5	2					9.28	18.80	
C-6	2					8.30	17.89	
C-7	2					10.02	16.68	

CHEVRON WELL MONITORING DATA SHEET

Project #: 960912-52	Station #: 9-5630
Sampler: MS	Date: 9/12/96
Well I.D.: C-1	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 27.24	Depth to Water: 10.49
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 / Middleburg / Electric Submersible / Extraction Pump / Other: ___

Sampling Method: Bailer / Disposable Bailer ✓ / Extraction Port / Other: ___

2.7 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 8.0 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1020	66.8	7.1	1200	3	
1025	65.4	7.0	1100	5.5	
1030	650	6.9	1100	8	

Did well dewater? Yes (No)		Gallons actually evacuated: 8	
Sampling Time: 1035		Sampling Date: 9/12	
Sample I.D.: C-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 #: 960912-52	Station #: 9 5630
Sampler: MS	Date: 9/12/96
Well I.D.: C-2	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 24.65	Depth to Water: 8.36
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 / ~~Disposable Bailer~~ / Middleburg / Electric Submersible / Extraction Pump / Other: ___

Sampling Method: Bailer / ~~Disposable Bailer~~ / Extraction Port / Other: ___

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

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1048	66.4	7.2	1000	3	
1054	64.8	7.1	1000	6	
1100	64.4	7.1	1000	8	

Did well dewater? Yes (No)		Gallons actually evacuated: 8	
Sampling Time: 1105		Sampling Date: 9/12	
Sample I.D.: C-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 #: 960912-JR	Station #: 9-5630
Sampler: MS	Date: 9/12/96
Well I.D.: C-3	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 25.90	Depth to Water: 9.06
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (TOC) 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 / Disposable Bailer ✓ / Middleburg / Electric Submersible / Extraction Pump / Other: _____

Sampling Method: Bailer / Disposable Bailer ✓ / Extraction Port / Other: _____

2.7 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 8.1 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1120	66.2	7.9	1000	3	
1125	65.8	7.7	1000	5.5	
1130	65.8	7.6	1000	8.5	

Did well dewater? Yes (No) Gallons actually evacuated: 8.5

Sampling Time: 1135 Sampling Date: 9/12

Sample I.D.: C-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 #: 960912-J2	Station #: 9-5630
Sampler: MS	Date: 9/12/96
Well I.D.: C-5	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 18.80	Depth to Water: 9.28
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 ✓ / Middleburg / Electric Submersible / Extraction Pump / Other: ___

Sampling Method: Bailer / Disposable Bailer ✓ / Extraction Port / Other: ___

1.5 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 4.6 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
933	66.4	6.7	1400	2	
937	65.8	6.6	1300	3.5	
942	65.8	6.5	1300	5	

Did well dewater? Yes (No)		Gallons actually evacuated: 5	
Sampling Time: 945		Sampling Date: 9/22	
Sample I.D.: C-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 #: 960912-J2	Station #: 9-5630
Sampler: MJ	Date: 9/12/96
Well I.D.: C-6	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 17.89	Depth to Water: 8.30
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 X / Middleburg / Electric Submersible / Extraction Pump / Other: ___

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

1.5	X	3	=	4.6 Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1144	68.0	7.6	1400	2	
1147	66.8	7.5	1300	3.5	
1151	66.4	7.5	1300	5	

Did well dewater? Yes (No)		Gallons actually evacuated: 5	
Sampling Time: 1155		Sampling Date: 9/12	
Sample I.D.: C-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	

CHEVRON WELL MONITORING DATA SHEET

Project #: 960912-J2	Station #: 9-5630
Sampler: MJ	Date: 9/12/96
Well I.D.: C-7	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 16.68	Depth to Water: 10.02
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 / Disposable Bailer ✓ / Middleburg / Electric Submersible / Extraction Pump / Other: ___

Sampling Method: Bailer / Disposable Bailer ✓ / Extraction Port / Other: ___

1.1 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 3.2 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
958	66.8	6.8	1200	1.5	
1001	65.4	6.8	1100	2.5	
1004	650	6.8	1100	3.5	

Did well dewater? Yes (No) Gallons actually evacuated: 3.5

Sampling Time: 1010 Sampling Date: 9/12

Sample I.D.: C-7 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