

ENVIRONMENTAL
PROTECTION



Chevron

97 JAN 28 PM 2:59

January 24, 1997

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

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

Re: Former Chevron Service Station # 9-1723
9757 San Leandro Blvd.
~~San Leandro, California~~
Oakland

Dear Ms. Chu:

Enclosed are copies of the Third and Fourth Quarter Groundwater Monitoring reports for 1996 that were prepared by our consultant Blaine Tech Services. Monitoring wells MW-5, MW-6 and MW-8 are sampled quarterly and MW-2 and MW-9 are sampled semiannually. All wells are sampled and analyzed for TPH-g, BTEX and MtBE constituents.

Concentrations of benzene constituents were below method detection limits in the third quarter for monitoring wells MW-2 and MW-9, they were not sampled in the fourth quarter. The benzene concentration in MW-5 went down in the third quarter, than rose in the fourth quarter. The concentration of benzene in MW-6 dropped in the third quarter and rose slightly in the fourth, while the concentration in MW-8 dropped in the third quarter and rose to about the same level as in the second quarter.

The depth to ground water in the third quarter varied from 9.35 feet to 10.25 feet below grade, with a direction of flow westerly. In the fourth quarter the ground water depth varied from 8.26 feet to 8.89 feet below grade, with a direction of flow westerly.

Chevron will continue to monitor the site in accordance with previous guidelines. 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

January 24, 1997

Ms. Eva Chu

Former Service Station # 9-1723

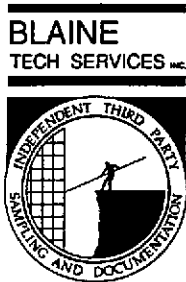
Page 2

cc. Ms. Bette Owen, Chevron

Mr. Kevin Graves, RWQWB- S.F. Bay Region
2101 Webster Street, Suite 500
Oakland, CA 94612

Mr. Ron Hothem, Pacific American Management Co.
369 Broadway
San Francisco, CA 94133

Mr. Jason Fedota , Fluor Daniel GTI
1401 Halyard Drive, Suite 140
West Sacramento, CA 95691



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

ENVIRONMENTAL
PROTECTION
97 JAN 28 PM 2:59

January 20, 1997

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

4th Quarter 1996 Monitoring at 9-1723

Fourth Quarter 1996 Groundwater Monitoring at
Chevron Service Station Number 9-1723
9757 San Leandro Street
Oakland, CA

Monitoring Performed on December 17, 1996

Groundwater Sampling Report 961217-C-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

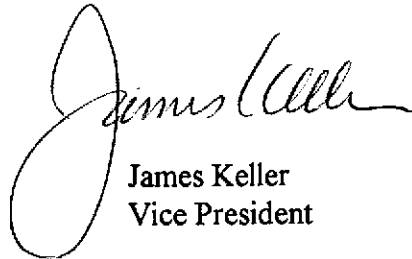
also contains new groundwater elevation calculations taken from the computer plotted gradient map which is located in the **Professional Engineering Appendix**.

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,

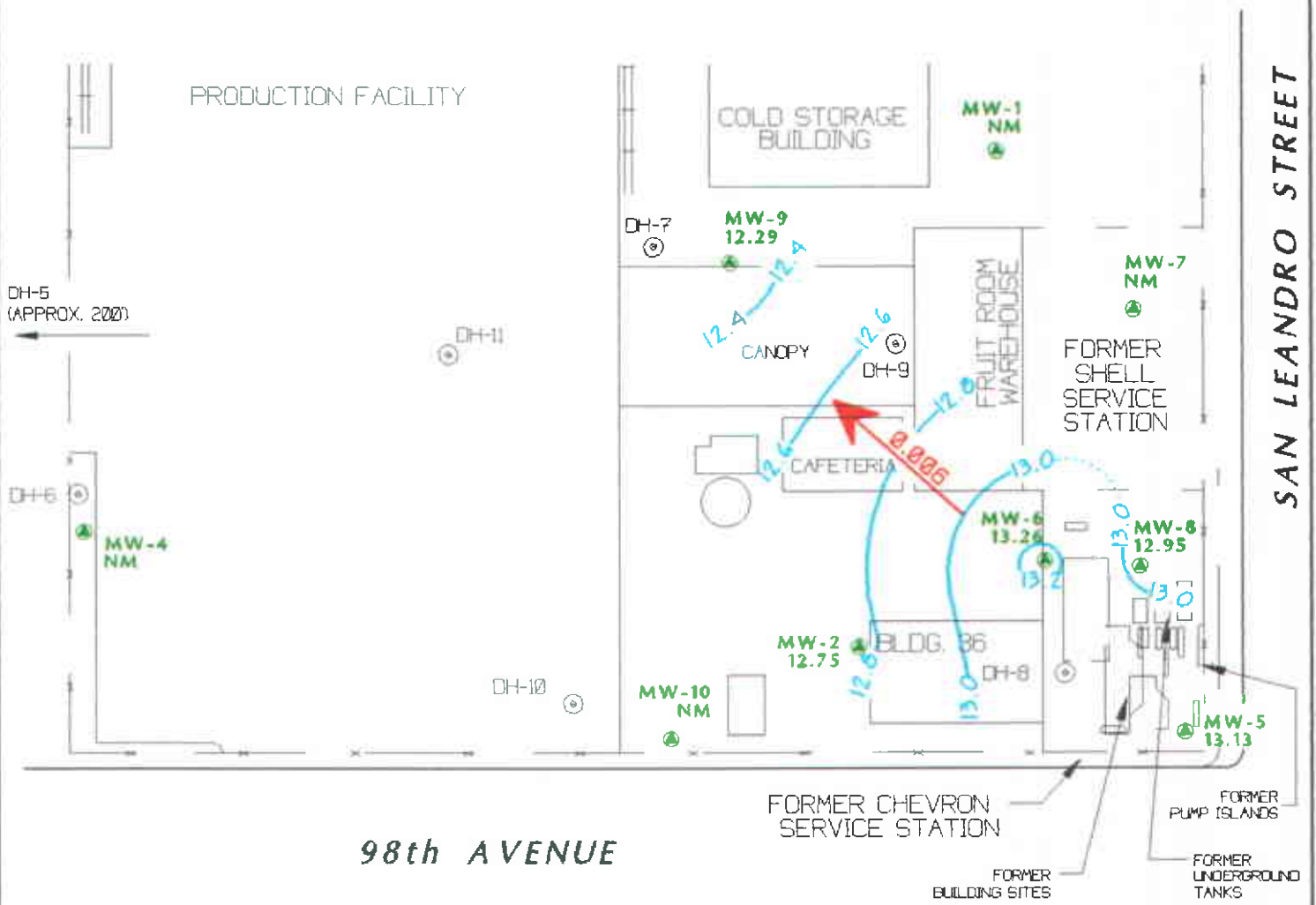


James Keller
Vice President

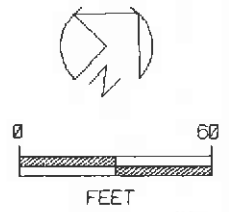
JPK/cg

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

Professional Engineering Appendix



EXPLANATION	
● MW-2	MONITORING WELL LOCATION AND WELL NUMBER
12.75	GROUND-WATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
NM	NOT MEASURED
—12.6	GROUND-WATER ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL
→ 0.005	APPROXIMATE DIRECTION OF GROUND-WATER FLOW. SLOPE INDICATED IN FEET / FEET



TITLE : GROUND-WATER ELEVATION CONTOUR MAP - DECEMBER 17, 1996

LOCATION : CHEVRON SERVICE STATION No.: 9-1723
9757 SAN LEANDRO STREET, OAKLAND, CALIFORNIA

SOURCE : CAMBRIA ENVIRONMENTAL TECHNOLOGY, INC

GEOCONSULTANTS, INC
SAN JOSE, CALIFORNIA
Project No. 0756-09

DRIVEN BY CHEVRON CHEMICALS

Table of Field 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	Lead	MTBE
MW-1											
11/02/93	20.92	10.68	10.24	--	--	--	--	--	--	--	--
02/10/94	20.92	--	--	--	--	--	--	--	--	--	--
05/12/94	20.92	--	--	--	--	--	--	--	--	--	--
08/26/94	20.92	--	--	No longer monitored or sampled	--	--	--	--	--	--	--
 MW-2											
11/02/93	21.31	10.83	10.48	--	--	--	--	--	--	--	--
02/10/94	21.31	--	--	--	--	--	--	--	--	--	--
05/12/94	21.31	11.94	9.37	--	390	6.8	2.0	6.3	14	--	--
08/26/94	21.31	--	--	Sampled Biannually	--	--	--	--	--	--	--
02/01/95	21.31	13.76	7.55	--	78	10	1.2	<0.5	0.51	--	--
08/02/95	21.31	11.53	9.78	--	100	3.5	<0.5	2.6	4.1	--	--
01/31/96	21.31	14.38	6.93	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
08/01/96	21.31	11.49	9.82	--	73	<0.5	<0.5	<0.5	<0.5	--	610
12/17/96	21.31	12.75	8.56	--	--	--	--	--	--	--	--
 MW-4											
11/02/93	--	--	10.23	--	--	--	--	--	--	--	--
02/10/94	--	--	--	--	--	--	--	--	--	--	--
05/12/94	--	--	--	--	--	--	--	--	--	--	--
08/26/94	--	--	--	No longer monitored or sampled	--	--	--	--	--	--	--

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	Lead	MTBE
MW-5											
11/02/93	21.84	11.15	10.69	--	790	43	3.4	22	12	<400	--
02/10/94	21.84	13.10	8.74	--	1400	52	3.0	50	40	--	--
05/12/94	21.84	12.40	9.44	--	1800	87	6.2	77	66	--	--
08/26/94	21.84	--	--	--	--	--	--	--	--	--	--
11/11/94	21.84	13.50	8.34	--	380	18	<1.0	18	11	--	--
02/01/95	21.84	14.32	7.52	--	570	36	0.59	21	11	--	--
05/18/95	21.84	12.87	8.97	--	590	29	1.0	16	9.8	--	--
08/02/95	21.84	11.98	9.86	--	210	9.2	<0.5	4.0	1.2	--	--
11/01/95	21.84	11.58	10.26	--	210	5.6	<0.5	1.9	<0.5	--	<2.5
01/31/96	21.84	14.72	7.12	--	1200	50	<5.0	19	29	--	<25
05/16/96	21.84	14.22	7.62	--	440	14	<0.5	17	8.6	--	11
08/01/96	21.84	11.86	9.98	--	58	1.4	<0.5	<0.5	<0.5	--	2.5
12/17/96	21.84	13.13	8.71	--	300	9.7	<0.5	11	6.3	--	6.9
MW-6											
11/02/93	21.71	10.93	10.78	--	300	19	1.8	2.5	5.0	<400	--
02/10/94	21.71	12.86	8.85	--	200	10	0.9	2.0	4.0	--	--
05/12/94	21.71	12.08	9.63	--	210	10	1.1	1.2	3.1	--	--
08/26/94	21.71	10.82	10.89	--	310	16	1.4	2.3	7.1	--	--
11/11/94	21.71	13.25	8.46	--	<50	1.3	<0.5	<0.5	1.0	--	--
02/01/95	21.71	14.02	7.69	--	<50	1.9	<0.5	<0.5	0.51	--	--
05/18/95	21.71	12.43	9.28	--	<50	8.2	<0.5	<0.5	<0.5	--	--
08/02/95	21.71	11.64	10.07	--	<50	2.3	<0.5	<0.5	<0.5	--	--
11/01/95	21.71	11.31	10.40	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
01/31/96	21.71	13.63	8.08	--	<50	0.98	<0.5	<0.5	<0.5	--	<2.5
05/16/96	21.71	13.91	7.80	--	<50	1.6	<0.5	<0.5	<0.5	--	<2.5
08/01/96	21.71	11.56	10.15	--	<50	0.82	<0.5	<0.5	<0.5	--	<2.5
12/17/96	21.71	13.26	8.45	--	63	2.6	<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	Lead	MTBE
MW-7											
11/02/93	20.95	10.88	10.07	--	--	--	--	--	--	--	--
02/10/94	20.95	--	--	--	--	--	--	--	--	--	--
05/12/94	20.95	--	--	--	--	--	--	--	--	--	--
08/26/94	20.95	--	--	--	--	--	--	--	--	--	--
No longer monitored or sampled											
MW-8											
11/02/93	21.84	11.02	10.82	--	15,000	2000	440	420	1400	<400	--
02/10/94	21.84	12.97	8.87	--	6500	1200	380	250	7900	--	--
05/12/94	21.84	12.19	9.65	--	30,000	1400	2900	800	3800	--	--
08/26/94	21.84	10.90	10.94	--	17,000	720	200	330	930	--	--
11/11/94	21.84	13.38	8.46	--	6800	250	170	190	650	--	--
02/01/95	21.84	14.36	7.48	--	330	68	2.8	2.7	4.3	--	--
05/18/95	21.84	12.54	9.30	--	540	120	12	11	23	--	--
08/02/95	21.84	11.73	10.11	--	1100	150	9.7	20	40	--	--
11/01/95	21.84	11.36	10.48	--	1700	120	15	16	39	--	<5.0
01/31/96	21.84	14.64	7.20	--	57	5.3	<0.5	<0.5	<0.5	--	<2.5
05/16/96	21.84	13.99	7.85	--	2100	260	43	56	130	--	64
08/01/96	21.84	11.59	10.25	--	1100	45	0.92	8.9	25	--	7.4
12/17/96	21.84	12.95	8.89	--	2000	280	30	51	88	--	22

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	Lead	MTBE
MW-9											
11/02/93	20.55	10.53	10.02	--	--	--	--	--	--	--	--
02/10/94	20.55	--	--	--	--	--	--	--	--	--	--
05/12/94	20.55	11.60	8.95	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
08/26/94	20.55	--	--	Sampled Biannually	--	--	--	--	--	--	--
02/01/95	20.55	13.35	7.20	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
08/02/95	20.55	11.22	9.33	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/31/96	20.55	14.10	6.45	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
08/01/96	20.55	11.20	9.35	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
12/17/96	20.55	12.29	8.26	--	--	--	--	--	--	--	--
MW-10											
11/02/93	21.25	10.93	10.32	--	--	--	--	--	--	--	--
02/10/94	21.25	--	--	--	--	--	--	--	--	--	--
05/12/94	21.25	--	--	--	--	--	--	--	--	--	--
08/26/94	21.25	--	--	--	--	--	--	--	--	--	--
No longer monitored or sampled											

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	Lead	MTBE
TRIP BLANK											
02/10/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/12/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
08/26/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/11/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/01/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/18/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
08/02/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/01/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/31/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
05/16/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
08/01/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
12/17/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5

Note: Blaine Tech Services, Inc. began routine monitoring of the groundwater wells at this site on November 1, 1994.
 Earlier field data and analytical results are drawn from the September 14, 1994 Groundwater Technology, Inc. report.

ABBREVIATIONS:

TPH = Total Petroleum Hydrocarbons

MTBE = Methyl t-Butyl Ether

Analytical Appendix



Blaine Technical Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Chevron 9-1723, 961217-C1 Sample Descript: MW 5 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9612B16-01	Sampled: 12/17/96 Received: 12/18/96 Analyzed: 12/19/96 Reported: 12/31/96
Attention: Jim Keller		

QC Batch Number: GC121996BTEX22A
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	300
Methyl t-Butyl Ether	2.5	6.9
Benzene	0.50	9.7
Toluene	0.50	N.D.
Ethyl Benzene	0.50	11
Xylenes (Total)	0.50	6.3
Chromatogram Pattern:		Gas
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	150 Q

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Blaine Technical Services	Client Proj. ID: Chevron 9-1723, 961217-C1	Sampled: 12/17/96
1680 Rogers Avenue	Sample Descript: MW 6	Received: 12/18/96
San Jose, CA 95112	Matrix: LIQUID	
Attention: Jim Keller	Analysis Method: 8015Mod/8020	Analyzed: 12/20/96
	Lab Number: 9612B16-02	Reported: 12/31/96

QC Batch Number: GC122096BTEX07A
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	63
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	2.6
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		Gas
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	102

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Blaine Technical Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Chevron 9-1723, 961217-C1 Sample Descript: MW 8 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9612B16-03	Sampled: 12/17/96 Received: 12/18/96 Analyzed: 12/20/96 Reported: 12/31/96
Attention: Jim Keller		

QC Batch Number: GC122096BTEX22A
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	250	2000
Methyl t-Butyl Ether	12	22
Benzene	2.5	280
Toluene	2.5	30
Ethyl Benzene	2.5	51
Xylenes (Total)	2.5	88
Chromatogram Pattern:		Gas
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





Blaine Technical Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Chevron 9-1723, 961217-C1 Sample Descript: TB Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9612B16-04	Sampled: 12/17/96 Received: 12/18/96 Analyzed: 12/19/96 Reported: 12/31/96
Attention: Jim Keller		

QC Batch Number: GC121996BTEX22A
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	97

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Renner
Project Manager





Sequoia
Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Blaine Technical Services
1680 Rogers Avenue
San Jose, CA 95112
Attention: Jim Keller

Client Proj. ID: Chevron 9-1723, 961217-C1
Lab Proj. ID: 9612B16

Received: 12/18/96
Reported: 12/31/96

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 9 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

TPPH Note: Sample 9612B16-03 was diluted 5-fold.

SEQUOIA ANALYTICAL


Peggy Penner
Project Manager





Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112
Attention: Jim Keller

Client Project ID: Chevron 9-1723/961217-C1
Matrix: Liquid

Work Order #: 9612B16 -01

Reported: Jan 2, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC121996BTEX22A	GC121996BTEX22A	GC121996BTEX22A	GC121996BTEX22A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	A. Porter	A. Porter	A. Porter	A. Porter
MS/MSD #:	961298001	961298001	961298001	961298001
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	12/19/96	12/19/96	12/19/96	12/19/96
Analyzed Date:	12/19/96	12/19/96	12/19/96	12/19/96
Instrument I.D.#:	GCHP22	GCHP22	GCHP22	GCHP22
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	8.6	11	10	28
MS % Recovery:	86	110	100	93
Dup. Result:	8.9	11	10	29
MSD % Recov.:	89	110	100	97
RPD:	3.4	0.0	0.0	3.5
RPD Limit:	0-25	0-25	0-25	0-25

LCS #:	BLK121996	BLK121996	BLK121996	BLK121996
Prepared Date:	12/19/96	12/19/96	12/19/96	12/19/96
Analyzed Date:	12/19/96	12/19/96	12/19/96	12/19/96
Instrument I.D.#:	GCHP22	GCHP22	GCHP22	GCHP22
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	9.0	11	11	29
LCS % Recov.:	90	110	110	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 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

9612B16.BLA <1>





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. Client Project ID: Chevron 9-1723/961217-C1
 1680 Rogers Avenue Matrix: Liquid
 San Jose, CA 95112 Work Order #: 9612B16-02 Reported: Jan 2, 1997
 Attention: Jim Keller

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC122096BTEX07A	GC122096BTEX07A	GC122096BTEX07A	GC122096BTEX07A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	A. Porter	A. Porter	A. Porter	A. Porter
MS/MSD #:	9612A4801	9612A4801	9612A4801	9612A4801
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	12/20/96	12/20/96	12/20/96	12/20/96
Analyzed Date:	12/20/96	12/20/96	12/20/96	12/20/96
Instrument I.D.#:	GCHP07	GCHP07	GCHP07	GCHP07
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	9.9	9.9	10	30
MS % Recovery:	99	99	100	100
Dup. Result:	10	10	10	31
MSD % Recov.:	100	100	100	103
RPD:	1.0	1.0	0.0	3.3
RPD Limit:	0-25	0-25	0-25	0-25

LCS #:	BLK122096	BLK122096	BLK122096	BLK122096
Prepared Date:	12/20/96	12/20/96	12/20/96	12/20/96
Analyzed Date:	12/20/96	12/20/96	12/20/96	12/20/96
Instrument I.D.#:	GCHP07	GCHP07	GCHP07	GCHP07
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	9.8	9.7	9.9	30
LCS % Recov.:	98	97	99	100

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

SEQUOIA ANALYTICAL


 Peggy Penner
 Project Manager

Please Note:

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

9612B16.BLA <2>





Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112
Attention: Jim Keller

Client Project ID: Chevron 9-1723/961217-C1
Matrix: Liquid

Work Order #: 9612B16-03-04

Reported: Jan 2, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC122096BTEX22A	GC122096BTEX22A	GC122096BTEX22A	GC122096BTEX22A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	A. Porter	A. Porter	A. Porter	A. Porter
MS/MSD #:	961298003	961298003	961298003	961298003
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	12/20/96	12/20/96	12/20/96	12/20/96
Analyzed Date:	12/20/96	12/20/96	12/20/96	12/20/96
Instrument I.D.#:	GCHP22	GCHP22	GCHP22	GCHP22
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	9.0	11	11	29
MS % Recovery:	90	110	110	97
Dup. Result:	8.9	11	11	29
MSD % Recov.:	89	110	110	97
RPD:	1.1	0.0	0.0	0.0
RPD Limit:	0-25	0-25	0-25	0-25

LCS #:	BLK122096	BLK122096	BLK122096	BLK122096
Prepared Date:	12/20/96	12/20/96	12/20/96	12/20/96
Analyzed Date:	12/20/96	12/20/96	12/20/96	12/20/96
Instrument I.D.#:	GCHP22	GCHP22	GCHP22	GCHP22
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	8.8	11	10	28
LCS % Recov.:	88	110	100	93

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

SEQUOIA ANALYTICAL

Peggy Pepper
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

9612B16.BLA <3>



**Field
Data
Sheets**

CHEVRON WELL MONITORING DATA SHEET

Project #: <u>961217-C-1</u>	Station #: <u>9-1723</u>
Sampler: <u>KEVIN C</u>	Date: <u>12-17-96</u>
Well I.D.: <u>MW-5</u>	Well Diameter: <u>(2)</u> 3 4 6 8 _____
Total Well Depth: <u>17.58</u>	Depth to Water: <u>8.71</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

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

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

<u>1.4</u>	x	<u>3</u>	=	<u>4.2</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
10:05	68.8	6.0	41800	1.5	
10:06	68.4	6.2	4400	3.0	
10:07	68.0	6.2	44100	4.5	

Did well dewater? Yes <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>4.5</u>
Sampling Time: <u>10:15</u>	Sampling Date: <u>12-17-96</u>
Sample I.D.: <u>MW-5</u>	Laboratory: Sequoia GTEL
Analyzed for: TPH-G BTEX MTBE TPH-D Other:	
D.O. (if req'd):	Pre-purge: _____ mg/L Post-purge: _____ mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV Post-purge: _____ mV

CHEVRON WELL MONITORING DATA SHEET

Project #: <u>961217-C-1</u>	Station #: <u>9-1723</u>
Sampler: <u>KEVIN C.</u>	Date: <u>12-17-96</u>
Well I.D.: <u>MW-6</u>	Well Diameter: <u>(2)</u> 3 4 6 8 <u> </u>
Total Well Depth: <u>19.78 19.87</u>	Depth to Water: <u>8.45</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

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

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

<u>1.8</u>	x	<u>3</u>	=	<u>5.4</u> Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
9:20	68.2	6.6	5200	2	
9:22	67.4	6.2	4200	4	
9:24	67.2	6.2	4200	6	

Did well dewater? Yes Gallons actually evacuated: 5.5

Sampling Time: 9:30 Sampling Date: 12-17-96

Sample I.D.: MW-6 Laboratory: Sequoia GTEL

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

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

CHEVRON WELL MONITORING DATA SHEET

Project #: <u>961217-C-1</u>	Station #: <u>9-1723</u>
Sampler: <u>KEVIN C</u>	Start Date: <u>12-17-96</u>
Well I.D.: <u>MW-8</u>	Well Diameter: (circle one) 2 3 4 6 <u> </u>
Total Well Depth: Before <u>18.95</u> After <u> </u>	Depth to Water: Before <u>8.89</u> After <u> </u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
Measurements referenced to:	PVC Grade Other: <u> </u>

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

<u>1.6</u>	<u>x</u>	<u>3</u>	<u>=</u>	<u>4.8</u>	<u>gallons</u>
1 Case Volume		Specified Volumes			

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

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
<u>10:25</u>	<u>68.4</u>	<u>7.2</u>	<u>5200</u>	<u>1.5</u>		
<u>10:27</u>	<u>67.8</u>	<u>6.8</u>	<u>41800</u>	<u>3.0</u>		
<u>10:29</u>	<u>67.8</u>	<u>6.6</u>	<u>41600</u>	<u>9.0</u>		

Did Well Dewater? NI If yes, gals. Gallons Actually Evacuated: 5.0

Sampling Time: 10:37 Sampling Date: 12-17-96

Sample I.D.: MW-8 Laboratory: Sequoia

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

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

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