BLAINE
TECH SERVICES INC.

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

September 23, 1996

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

3rd Quarter 1996 Monitoring at 9-4612

Third Quarter 1996 Groundwater Monitoring at
Chevron Service Station Number 9-4612
3616 San Leandro Street
Oakland, CA

Monitoring Performed on August 1, 1996

Groundwater Sampling Report **960801-D-3**

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.

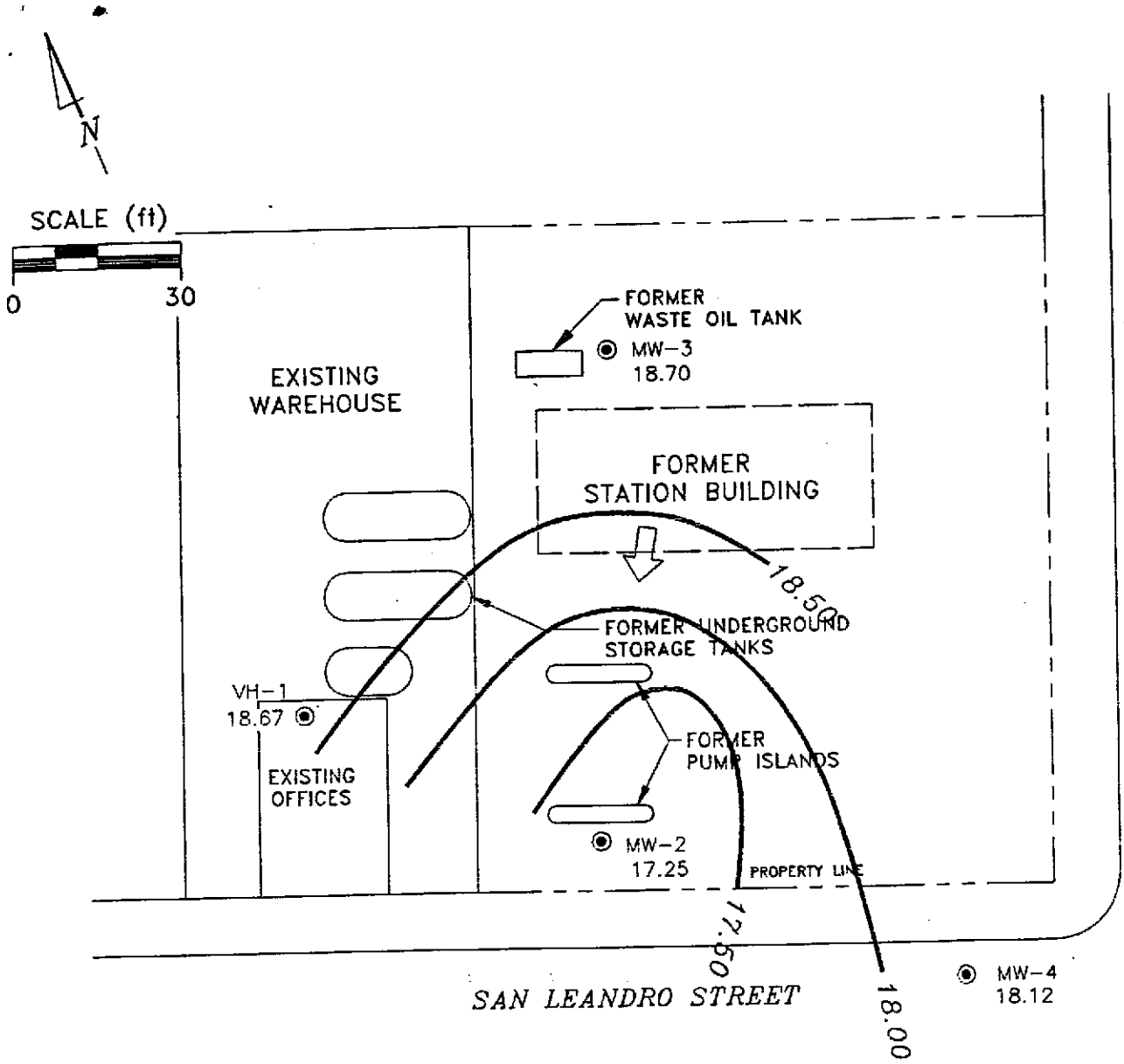
Please call if you have any questions.

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



EXPLANATION

- ◉ MONITORING WELL
- 18.70 GROUNDWATER ELEVATION (FT. MSL)
- 18.50 — GROUNDWATER ELEVATION CONTOUR (FT. MSL)
- ⇩ APPROXIMATE GROUNDWATER FLOW DIRECTION; APPROXIMATE GRADIENT = 0.2

REGISTERED GEOLOGIST
STEVEN E. KRCIK
No. 4876
STATE OF CALIFORNIA

Basemap from Cambria Environmental Technology, Inc.

PREPARED BY RRM INC.	**Chevron Station 9-4612** 3616 San Leandro Street Oakland, California **GROUNDWATER ELEVATION CONTOUR MAP, AUGUST 1,1996**	FIGURE: 1 PROJECT: DAC04

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	TOG	HVOC	MTBE
VH-1													
08/10/88	--	--	13.00	--	11,000	3300	200	520	540	--	--	--	--
06/01/89	--	--	10.32	--	15,000	2200	120	540	310	--	--	--	--
09/15/89	--	--	15.69	--	5600	1900	90	350	160	--	--	--	--
12/08/89	--	--	14.77	--	11,000	1900	69	270	99	--	--	--	--
03/07/91	--	--	11.26	--	4500	820	39	120	77	--	--	--	--
09/24/91	--	--	12.98	--	3300	520	19	39	27	--	--	--	--
01/08/92	--	--	13.77	--	5000	600	34	81	76	--	--	--	--
04/20/92	--	--	8.18	--	7400	670	60	110	140	--	--	--	--
03/26/93	27.85	21.14	6.71	--	4900	600	40	72	94	--	--	--	--
05/27/93	27.85	19.27	8.58	--	13,000	1600	120	230	220	--	--	--	--
08/18/93	27.85	17.39	10.46	--	2700	210	10	8.1	18	--	--	--	--
11/03/93	27.85	15.28	12.57	--	4600	680	42	35	68	--	--	--	--
02/10/94	27.85	18.77	9.08	--	1900	260	19	22	29	--	--	--	--
05/12/94	27.85	19.76	8.09	--	2000	390	28	3.9	29	--	--	--	--
08/26/94	27.85	17.10	10.75	--	4900	500	<5.0	23	31	--	--	--	--
11/14/94	27.85	18.40	9.45	--	760	69	<2.0	<2.0	2.2	300	--	--	--
02/01/95	27.85	21.88	5.97	--	1300	120	5.9	<0.5	13	--	--	--	--
05/12/95	27.85	20.14	7.71	--	4400	460	31	45	49	--	--	--	--
08/22/95	27.85	18.59	9.26	--	2900	310	15	28	32	--	--	--	--
12/19/95	27.85	19.05	8.80	--	930	53	<2.5	<2.5	<2.5	--	--	--	39
01/31/96	27.85	22.35	5.50	--	3700	320	<10	41	40	--	--	--	180
04/30/96	27.85	19.81	8.04	--	3900	270	<20	<20	<20	--	--	--	120
08/01/96	27.85	18.67	9.18	--	2700	140	11	18	28	--	--	--	200

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	TOG	HVOC	MTBE
MW-2													
02/16/93	27.51	--	--	--	9200	720	110	250	170	--	--	--	--
03/26/93	27.51	19.89	7.62	--	--	--	--	--	--	--	--	--	--
05/27/93	27.51	18.04	9.47	--	360	5.3	2.1	1.8	2.5	--	--	--	--
08/18/93	27.51	16.46	11.05	--	9400	1100	76	110	100	--	--	--	--
11/03/93	27.51	14.56	12.95	--	8600	390	20	2.7	120	--	--	--	--
02/10/94	27.51	17.72	9.79	--	2700	370	38	44	41	--	--	--	--
05/12/94	27.51	18.59	8.92	--	3800	650	76	15	62	--	--	--	--
08/26/94	27.51	16.14	11.37	--	16,000	1300	270	28	120	--	--	--	--
11/14/94	27.51	17.48	10.03	--	5100	390	10	43	27	--	--	--	--
02/01/95	27.51	20.47	7.04	--	6900	520	82	170	110	--	--	--	--
05/12/95	27.51	18.76	8.75	--	7700	510	83	110	100	--	--	--	--
08/22/95	27.51	17.35	10.16	--	4500	220	16	61	47	--	--	--	--
12/19/95	27.51	18.05	9.46	--	2900	240	<10	19	18	--	--	--	220
01/31/96	27.51	21.91	5.60	--	3900	320	18	72	39	--	--	--	<25
04/30/96	27.51	18.68	8.83	--	5600	200	36	55	47	--	--	--	170
08/01/96	27.51	17.25	10.26	--	6200	190	15	62	59	--	--	--	220
MW-3													
02/16/93	28.50	--	--	--	3500	<0.5	8.1	4.6	7.7	--	--	--	--
03/26/93	28.50	21.32	7.18	--	--	--	--	--	--	--	--	--	--
05/27/93	28.50	19.17	9.33	--	4200	580	84	150	100	--	--	--	--
08/18/93	28.50	16.50	12.00	--	910	12	3.7	6.2	3.8	1400	<5000	ND	--
11/03/93	28.50	15.21	13.29	--	5300	29	1.9	0.6	27	--	--	--	--
02/10/94	28.50	18.87	9.63	--	63	<0.5	0.7	<0.5	<0.5	<50	--	--	--
05/12/94	28.50	19.73	8.77	--	<50	<0.5	0.5	<0.5	<0.5	84	--	--	--
08/26/94	28.50	17.08	11.42	--	2100	12	<0.5	5.0	0.5	--	--	--	--
11/14/94	28.50	18.43	10.07	--	140	0.78	<0.5	<0.5	<0.5	--	--	--	--
02/01/95	28.50	22.21	6.29	--	<50	<0.5	<0.5	<0.5	<0.5	<50	--	--	--
05/12/95	28.50	20.43	8.07	--	330	13	1.1	1.9	0.69	540*	--	--	--
08/22/95	28.50	18.55	9.95	--	980	32	<1.0	<1.0	<1.0	550*	--	--	--
12/19/95	28.50	19.10	9.40	--	<50	<0.5	<0.5	<0.5	<0.5	<50	--	--	<2.5
01/31/96	28.50	23.45	5.05	--	<50	<0.5	<0.5	<0.5	<0.5	<50	--	--	<2.5
04/30/96	28.50	20.10	8.40	--	320	2.4	<0.5	0.75	<0.5	240*	--	--	7.8
08/01/96	28.50	18.70	9.80	--	980	9.6	<0.5	0.98	2.2	470*	--	--	54

* 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	TOG	HVOC	MTBE
MW-4													
08/22/95	27.27	18.16	9.11	--	9600	100	<10	<10	<10	--	--	--	--
12/19/95	27.27	18.97	8.30	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	<2.5
01/31/96	27.27	21.67	5.60	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	<2.5
04/30/96	27.27	20.27	7.00	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	<2.5
08/01/96	27.27	18.12	9.15	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
TRIP BLANK													
05/27/93	--	---	---	--	<50	<0.5	<0.5	<0.5	<1.5	--	--	--	--
08/18/93	--	---	---	--	<50	<0.5	<0.5	<0.5	<1.5	1400	<5000	ND	--
11/03/93	--	---	---	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
02/10/94	--	---	---	--	<50	<0.5	<0.5	<0.5	<0.5	<50	--	--	--
05/12/94	--	---	---	--	<50	<0.5	<0.5	<0.5	<0.5	84	--	--	--
08/26/94	--	---	---	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
11/14/94	--	---	---	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
02/01/95	--	---	---	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
05/12/95	--	---	---	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
08/22/95	--	---	---	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
12/19/95	--	---	---	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	<2.5
01/31/96	--	---	---	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	<2.5
04/30/96	--	---	---	--	<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

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 27, 1994 Groundwater Technology, Inc. report.

ABBREVIATIONS:
TPH = Total Petroleum Hydrocarbons
TOG = Total Oil & Grease
HVOC = Halogenated Volatile Organic Compounds
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
985 Timothy Drive
San Jose, CA 95133

Attention: Jim Keller

Client Proj. ID: Chevron 9-4612/960801-D3
Sample Descript: VH-1
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9608211-01

Sampled: 08/01/96
Received: 08/02/96

Analyzed: 08/13/96
Reported: 08/22/96

QC Batch Number: GC081396BTEX22A
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	1000	2700
Methyl t-Butyl Ether	50	200
Benzene	10	140
Toluene	10	11
Ethyl Benzene	10	18
Xylenes (Total)	10	28
Chromatogram Pattern:		
Weathered Gas		C6-C12

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	94

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	Client Proj. ID: Chevron 9-4612/960801-D3	Sampled: 08/01/96
985 Timothy Drive	Sample Descript: MW-2	Received: 08/02/96
San Jose, CA 95133	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 08/13/96
Attention: Jim Keller	Lab Number: 9608211-02	Reported: 08/22/96

QC Batch Number: GC081396BTEX22A
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	1000	6200
Methyl t-Butyl Ether	50	220
Benzene	10	190
Toluene	10	15
Ethyl Benzene	10	62
Xylenes (Total)	10	59
Chromatogram Pattern:		
Weathered Gas		C6-C12

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	103

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 9-4612/960801-D3
Sample Descript: MW-3
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9608211-03

Sampled: 08/01/96
Received: 08/02/96

Analyzed: 08/13/96
Reported: 08/22/96

QC Batch Number: GC081396BTEX22A
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**	**980**
Methyl t-Butyl Ether	**2.5**	**54**
Benzene	**0.50**	**9.6**
Toluene	0.50	N.D.
Ethyl Benzene	**0.50**	**0.98**
Xylenes (Total)	**0.50**	**2.2**
Chromatogram Pattern:		
Weathered Gas		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	127

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	Client Proj. ID: Chevron 9-4612/960801-D3	Sampled: 08/01/96
985 Timothy Drive	Sample Descript: MW-3	Received: 08/02/96
San Jose, CA 95133	Matrix: LIQUID	Extracted: 08/07/96
	Analysis Method: EPA 8015 Mod	Analyzed: 08/13/96
Attention: Jim Keller	Lab Number: 9608211-03	Reported: 08/22/96

QC Batch Number: GC0806960HBPEXB
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

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

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

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	Client Proj. ID: Chevron 9-4612/960801-D3	Sampled: 08/01/96
985 Timothy Drive	Sample Descript: MW-4	Received: 08/02/96
San Jose, CA 95133	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 08/14/96
Attention: Jim Keller	Lab Number: 9608211-04	Reported: 08/22/96

QC Batch Number: GC081496BTEX17A
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**	-
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Discrete Peaks		**C6-C9**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	92

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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 9-4612/960801-D3	Sampled: 08/01/96
985 Timothy Drive	Sample Descript: TB	Received: 08/02/96
San Jose, CA 95133	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 08/13/96
Attention: Jim Keller	Lab Number: 9608211-05	Reported: 08/22/96

QC Batch Number: GC081396BTEX22A
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	111

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 9-4612/960801-D3 Lab Proj. ID: 9608211	Received: 08/02/96 Reported: 08/22/96

LABORATORY NARRATIVE

TPPH Note: Sample 9608211-01 was diluted 20-fold.
Sample 9608211-02 was diluted 20-fold.

No MTBE could be determained for sample 9608211-04 due possible co-elution with t-1,2-DCE.

SEQUOIA ANALYTICAL

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 9-4612 / 960801-D3
Matrix: Liquid
Work Order #: 9608211 -01-03, 05
Reported: Aug 26, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC081396BTEX22A	GC081396BTEX22A	GC081396BTEX22A	GC081396BTEX22A
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 #:	960818501	960818501	960818501	960818501
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	8/13/96	8/13/96	8/13/96	8/13/96
Analyzed Date:	8/13/96	8/13/96	8/13/96	8/13/96
Instrument I.D.#:	GCHP22	GCHP22	GCHP22	GCHP22
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	10	11	10	31
MS % Recovery:	100	110	100	105
Dup. Result:	10	10	10	31
MSD % Recov.:	100	100	100	103
RPD:	0.0	9.5	0.0	1.6
RPD Limit:	0-25	0-25	0-25	0-25

LCS #:	BLK081396	BLK081396	BLK081396	BLK081396
Prepared Date:	8/13/96	8/13/96	8/13/96	8/13/96
Analyzed Date:	8/13/96	8/13/96	8/13/96	8/13/96
Instrument I.D.#:	GCHP22	GCHP22	GCHP22	GCHP22
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	104
MS/MSD Control Limits	60-140	60-140	60-140	60-140
LCS Control Limits	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL

Reggy Penner
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

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

Sequoia Analytical

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 9-4612 / 960801-D3	
985 Timothy Drive	Matrix:	Liquid	
San Jose, CA 95133			
Attention: Jim Keller	Work Order #:	9608211-04	Reported: Aug 26, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC081496BTEX17A	GC081496BTEX17A	GC081496BTEX17A	GC081496BTEX17A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	D. Jirsa	D. Jirsa	D. Jirsa	D. Jirsa
MS/MSD #:	960819001	960819001	960819001	960819001
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	8/14/96	8/14/96	8/14/96	8/14/96
Analyzed Date:	8/14/96	8/14/96	8/14/96	8/14/96
Instrument I.D.#:	GCHP17	GCHP17	GCHP17	GCHP17
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	10	10	10	31
MS % Recovery:	100	100	100	103
Dup. Result:	9.8	9.6	9.9	29
MSD % Recov.:	98	96	99	97
RPD:	2.0	4.1	1.0	6.7
RPD Limit:	0-25	0-25	0-25	0-25
LCS #:	BLK081496	BLK081496	BLK081496	BLK081496
Prepared Date:	8/14/96	8/14/96	8/14/96	8/14/96
Analyzed Date:	8/14/96	8/14/96	8/14/96	8/14/96
Instrument I.D.#:	GCHP17	GCHP17	GCHP17	GCHP17
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	10	11	10	30
LCS % Recov.:	100	110	100	100
MS/MSD Control Limits	60-140	60-140	60-140	60-140
LCS Control Limits	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

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

Sequoia Analytical

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 9-4612 / 960801-D3	
985 Timothy Drive	Matrix:	Liquid	
San Jose, CA 95133			
Attention: Jim Keller	Work Order #:	9608211-03	Reported: Aug 26, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Diesel
QC Batch#:	GC0806960HBPEXB
Analy. Method:	EPA 8015M
Prep. Method:	EPA 3510
Analyst:	J. Minkel
MS/MSD #:	960809501
Sample Conc.:	890
Prepared Date:	8/6/96
Analyzed Date:	8/7/96
Instrument I.D.#:	GCHP4
Conc. Spiked:	1000 µg/L
Result:	1200
MS % Recovery:	31
Dup. Result:	1100
MSD % Recov.:	21
RPD:	8.7
RPD Limit:	0-50

LCS #:	BLK080796
Prepared Date:	8/7/96
Analyzed Date:	8/8/96
Instrument I.D.#:	GCHP5
Conc. Spiked:	1000 µg/L
LCS Result:	830
LCS % Recov.:	83

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

SEQUOIA ANALYTICAL

Reggy 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

Fax copy of Lab Report and COC to Chevron Contact: ☐ 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: 9-4612
Facility Address: 3616 San Leandro St., Oakland, CA
Consultant Project Number: 960801-D3
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: 2172660
Samples Collected by (Name): MIKE DILLONGHEMC
Collection Date: 8-1-96
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	9608211				DO NOT BILL FOR TB-LB Remarks
VH-1	1	3	W	D	1505	HCl	Y	X								X					
MW-2	2	3	W	G	1430	HCl	Y	X								X					
MW-3	3	3	W	G	1405	HCl	Y	X	X							X					
MW-4	4	3	W	G	1340	HCl	Y	X								X					
TB	5	2	W	G		HCl	Y	X								X					

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	BTS	8/2/96 1420		Sequoia	8/2/96 1420
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	Sequoia	8/2/96 15:50			
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time
					8/2/96 1551

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

Field Data Sheets

WELL GAUGING DATA

Project # 960801-D3 Date 8-1-96 Client CHEV

Site 3616 SAN LEANDRO ST, OAKLAND

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
VH-1	4					9.18	28.58	TOC
MW-2	2					10.26	19.85	"
MW-3	2					9.80	19.80	"
MW-4	2					9.15	20.02	"

CHEVRON WELL MONITORING DATA SHEET

Project #: 960801-D3 Station #: 9-4612

Sampler: MD Start Date: 8-1-96

Well I.D.: VH-1 Well Diameter: (circle one) 2 3 4 6 ___

Total Well Depth: Before ~~9.18~~ After 28.58 Depth to Water: Before ~~28.58~~ After 9.18

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

12-6 (1 Case Volume) x ~~3~~ (Specified Volumes) = 30 gallons

Purging: Bailer X
Disposable Bailer ~~X~~
Middleburg
Electric Submersible
Extraction Pump
Other ___

Sampling: Bailer X
Disposable Bailer ~~X~~
Extraction Port
Other ___

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
1440	71.0	7.2	700	—	12	ODOR
1450	70.2	7.0	700	—	25	
1500	70.4	7.0	700	—	38	

Did Well Dewater? N If yes, gals. Gallons Actually Evacuated: 30

Sampling Time: 1505 Sampling Date: 8-1

Sample I.D.: VH-1 Laboratory: SEQ

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

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

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

CHEVRON WELL MONITORING DATA SHEET

Project #: 900801-D3	Station #: 9-4612
Sampler: SP	Start Date: 8-1-96
Well I.D.: MW-3	Well Diameter: (circle one) 2 3 4 6 ___
Total Well Depth: Before 19.80 After	Depth to Water: Before 9.80 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

1.6 (1 Case Volume) x 3 (Specified Volumes) = 21.8 gallons

Purging: Bailer; Disposable Bailer X; Middleburg; Electric Submersible; Extraction Pump; Other ____

Sampling: Bailer; Disposable Bailer X; Extraction Port; Other ____

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
1352	71.2	7.6	500	—	1	
1355	70.4	7.4	500	—	3	
1358	70.0	7.4	450	—	5	

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

Sampling Time: 1405 Sampling Date: 8-1

Sample I.D.: MW-3 Laboratory: SEQ

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

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

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

CHEVRON WELL MONITORING DATA SHEET

Project #: 960801-D3	Station #: 9-4612
Sampler: MD	Date: 8-1-96
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 20.02	Depth to Water: 9.15
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 X / Middleburg / Electric Submersible / Extraction Pump / Other: ___

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

1.7 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 5.2 Gals. (Calculated Volume)

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1330	70.4	7.0	700	2	
1333	70.0	6.9	500	4	
1336	69.8	6.8	500	5.5	

Did well dewater? Yes (No)		Gallons actually evacuated: ~~12~~ 5.5	
Sampling Time: 1340		Sampling Date: 8-1	
Sample I.D.: MW-4		Laboratory: (Sequoia) GTEL	
Analyzed for: TPH-G (0) BTEX (0) 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