Chevron

Chevron

November 6, 1995

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

Site Assessment & Remediation Group
Phone (510) 842-9500

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

Re: Former Chevron Service Station #9-4612
3616 San Leandro Street, Oakland, CA

Dear Mr. Chan:

Enclosed is the Third Quarter 1995 Groundwater Monitoring Report dated October 13, 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 and BTEX. A sample collected from MW-3 was also analyzed for total petroleum hydrocarbons as diesel.

Dissolved concentrations of these constituents observed during the past quarter are consistent with historical results. Depth to ground water was measured at approximately 9.1 to 10.2 feet below grade and the direction of flow is to the south.

We will continue to monitor and sample all wells at this site for an additional two quarters to verify ground water quality. 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. Jack Ratto
P.O. Box 6032
Oakland, CA 94603

Mr. Terry McIlraith
407 Castello Road
Lafayette, CA 94549

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BLAINE
TECH SERVICES INC.

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

October 13, 1995

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

3rd Quarter 1995 Monitoring at 9-4612

Third Quarter 1995 Groundwater Monitoring at
Chevron Service Station Number 9-4612
3616 San Leandro Street
Oakland, CA

Monitoring Performed on August 22, 1995

Groundwater Sampling Report **950822-K-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 Chevron's Richmond Refinery for disposal.

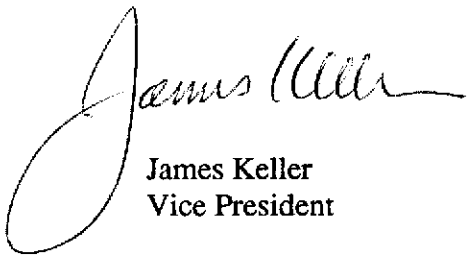
Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL DATA AND ANALYTICAL RESULTS.** The full analytical report for the most recent samples is located in the **Analytical Appendix.** The table also contains new groundwater 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,

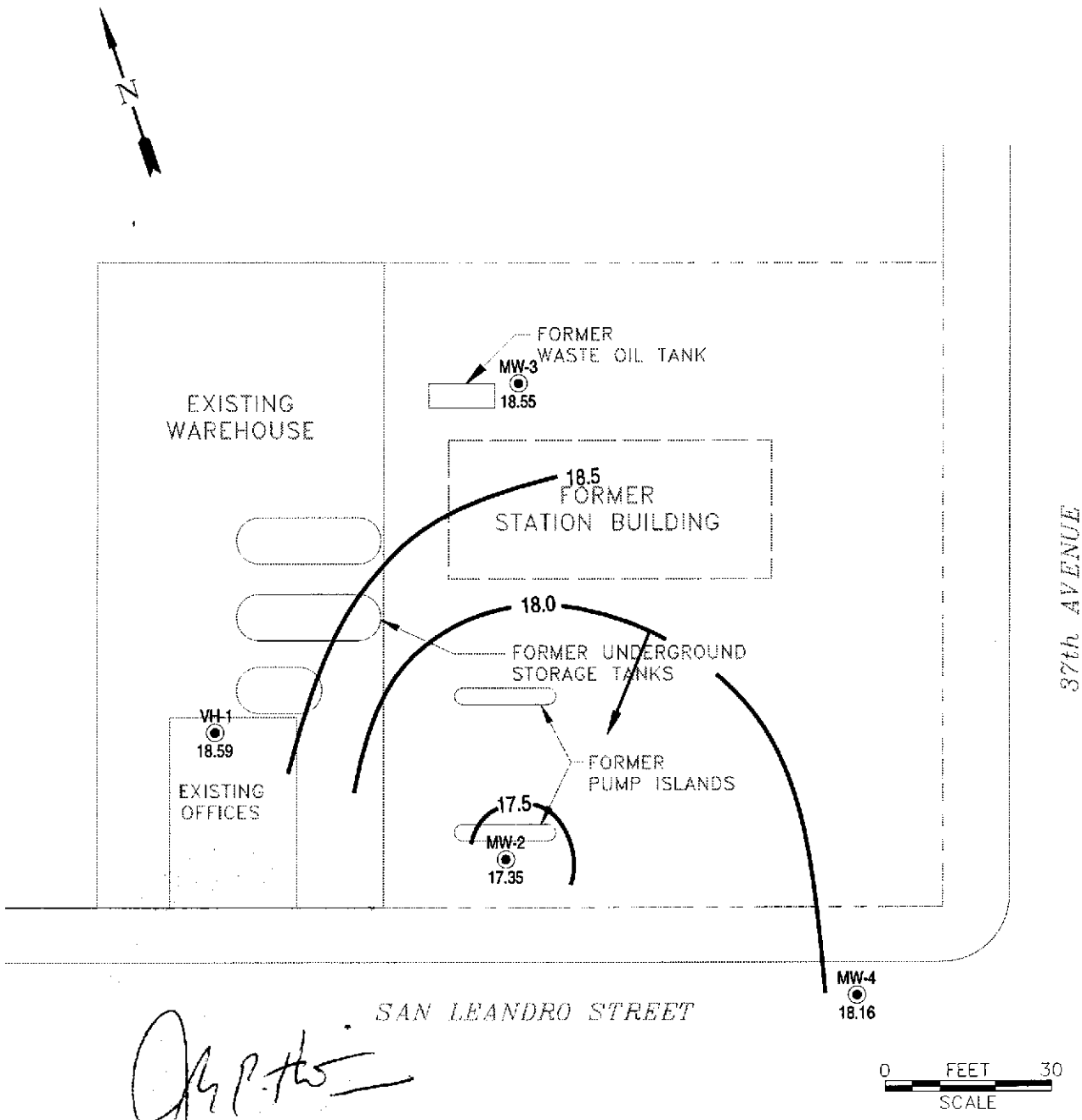


James Keller
Vice President

JPK/dk

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

Professional Engineering Appendix



LEGEND

- PROPERTY LINE
- MONITORING WELL
- 22.00 POTENTIOMETRIC SURFACE ELEVATION (FT)
- POTENTIOMETRIC SURFACE CONTOUR
- GROUNDWATER FLOW DIRECTION AND GRADIENT

NOTE:

1. CONTOURS REPRESENT APPROXIMATE ELEVATIONS ABOVE MEAN SEA LEVEL.

Base map from Groundwater Technology, Inc.

CAMBRIA
Environmental Technology, Inc.

Chevron Station 9-4612
3616 San Leandro Street
Oakland, California

\CHEVRON\9-4612\4612-QM.DWG

Ground Water Elevation

August 22, 1995

FIGURE

1

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
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	--	--	--

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
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	--	--	--
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*	--	--
MW-4												
08/22/95	27.27	18.16	9.11	--	9600	100	<10	<10	<10	--	--	--

* 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
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	--	--	--

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

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 9-4612	Sampled: 08/22/95
985 Timothy Drive	Sample Descript: VH-1	Received: 08/23/95
San Jose, CA 95133	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 08/26/95
Attention: Jim Keller	Lab Number: 9508H09-01	Reported: 08/29/95

QC Batch Number: GC082595BTEX17A
Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**1250**	**2900**
Benzene	**12**	**310**
Toluene	**12**	**15**
Ethyl Benzene	**12**	**28**
Xylenes (Total)	**12**	**32**
Chromatogram Pattern:		
Weathered Gas		**C6-C12**

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

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 9-4612	Sampled: 08/22/95
985 Timothy Drive	Sample Descript: MW-2	Received: 08/23/95
San Jose, CA 95133	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 08/26/95
Attention: Jim Keller	Lab Number: 9508H09-02	Reported: 08/29/95

QC Batch Number: GC082595BTEX17A
Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**1000**	**4500**
Benzene	**10**	**220**
Toluene	**10**	**16**
Ethyl Benzene	**10**	**61**
Xylenes (Total)	**10**	**47**
Chromatogram Pattern:		
Weathered Gas		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	92

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

Sequoia Analytical

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

Blaine Technical Services	Client Proj. ID: Chevron 9-4612	Sampled: 08/22/95
985 Timothy Drive	Sample Descript: MW-3	Received: 08/23/95
San Jose, CA 95133	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 08/28/95
Attention: Jim Keller	Lab Number: 9508H09-03	Reported: 08/29/95

QC Batch Number: GC082895BTEX21A
Instrument ID: GCHP21

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**100**	**980**
Benzene	**1.0**	**32**
Toluene	1.0	N.D.
Ethyl Benzene	1.0	N.D.
Xylenes (Total)	1.0	N.D.
Chromatogram Pattern:		**Gas**
Gas & Unidentified HC		**<C8**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	189 Q

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	Client Proj. ID: Chevron 9-4612	Sampled: 08/22/95
985 Timothy Drive	Sample Descript: MW-3	Received: 08/23/95
San Jose, CA 95133	Matrix: LIQUID	Extracted: 08/26/95
	Analysis Method: EPA 8015 Mod	Analyzed: 08/28/95
Attention: Jim Keller	Lab Number: 9508H09-03	Reported: 08/29/95

QC Batch Number: GC0826950HBPEXY
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	**50**	**550**
Chromatogram Pattern:	**C9-C24**	**Unidentified HC**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	91

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

Sequoia Analytical

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

Blaine Technical Services	Client Proj. ID: Chevron 9-4612	Sampled: 08/22/95
985 Timothy Drive	Sample Descript: MW-4	Received: 08/23/95
San Jose, CA 95133	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 08/25/95
Attention: Jim Keller	Lab Number: 9508H09-04	Reported: 08/29/95

QC Batch Number: GC082595BTEX21A
Instrument ID: GCHP21

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**1000**	**9600**
Benzene	**10**	**100**
Toluene	10	N.D.
Ethyl Benzene	10	N.D.
Xylenes (Total)	10	N.D.
Chromatogram Pattern:		**Gas**
Unidentified HC		**< C8**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	153 Q

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	Client Proj. ID: Chevron 9-4612	Sampled: 08/22/95
985 Timothy Drive	Sample Descript: TB	Received: 08/23/95
San Jose, CA 95133	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 08/24/95
Attention: Jim Keller	Lab Number: 9508H09-05	Reported: 08/29/95

QC Batch Number: GC082495BTEX20A
Instrument ID: GCHP20

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	73

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

Client Proj. ID: Chevron 9-4612
Lab Proj. ID: 9508H09

Received: 08/23/95
Reported: 08/29/95

LABORATORY NARRATIVE

Q = High surrogate recovery due to coelution.

TPPH Note: Sample 9508H09-01 was diluted 25-fold.
Sample 9508H09-02 was diluted 20-fold.
Sample 9508H09-03 was diluted 2-fold.
Sample 9508H09-04 was diluted 20-fold.

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

Sequoia Analytical

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

Blaine Tech Services, Inc.	Client Project ID:	Chevron 9-4612/950822-K2	
985 Timothy Drive	Matrix:	Liquid	
San Jose, CA 95133			
Attention: Jim Keller	Work Order #:	9508H09 -01-02	Reported: Sep 1, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC082595BTEX17A	GC082595BTEX17A	GC082595BTEX17A	GC082595BTEX17A
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 #:	9508H0806	9508H0806	9508H0806	9508H0806
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	8/25/95	8/25/95	8/25/95	8/25/95
Analyzed Date:	8/25/95	8/25/95	8/25/95	8/25/95
Instrument I.D.#:	GCHP17	GCHP17	GCHP17	GCHP17
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	11	11	11	32
MS % Recovery:	110	110	110	107
Dup. Result:	10	10	10	30
MSD % Recov.:	100	100	100	100
RPD:	9.5	9.5	9.5	6.5
RPD Limit:	0-50	0-50	0-50	0-50
LCS #:	-	-	-	-
Prepared Date:	-	-	-	-
Analyzed Date:	-	-	-	-
Instrument I.D.#:	-	-	-	-
Conc. Spiked:	-	-	-	-
LCS Result:	-	-	-	-
LCS % Recov.:	-	-	-	-
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

Sequoia Analytical

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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 9-4612/950822-K2		
985 Timothy Drive	Matrix:	Liquid		
San Jose, CA 95133				
Attention: Jim Keller	Work Order #:	9508H09-03	Reported:	Sep 1, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel
QC Batch#:	GC082895BTEX21A	GC082895BTEX21A	GC082895BTEX21A	GC082895BTEX21A	GC0825950HBPEXY
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 3520
Analyst:	J. Minkel	J. Minkel	J. Minkel	J. Minkel	N. Herrera
MS/MSD #:	9508B8703	9508B8703	9508B8703	9508B8703	9508H0806
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	380
Prepared Date:	8/28/95	8/28/95	8/28/95	8/28/95	8/25/95
Analyzed Date:	8/28/95	8/28/95	8/28/95	8/28/95	8/28/95
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21	GCHP5
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	1000 µg/L
Result:	11	11	11	33	1000
MS % Recovery:	110	110	110	110	62
Dup. Result:	11	11	11	32	1100
MSD % Recov.:	110	110	110	107	72
RPD:	0.0	0.0	0.0	3.1	9.5
RPD Limit:	0-50	0-50	0-50	0-50	0-50
LCS #:	-	-	-	-	BLK082595
Prepared Date:	-	-	-	-	8/25/95
Analyzed Date:	-	-	-	-	8/28/95
Instrument I.D.#:	-	-	-	-	GCHP5
Conc. Spiked:	-	-	-	-	1000 µg/L
LCS Result:	-	-	-	-	770
LCS % Recov.:	-	-	-	-	77
MS/MSD LCS Control Limits	71-133	72-128	72-130	71-120	38-122

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

Blaine Tech Services, Inc.	Client Project ID:	Chevron 9-4612/950822-K2	
985 Timothy Drive	Matrix:	Liquid	
San Jose, CA 95133			
Attention: Jim Keller	Work Order #:	9508H09-04	Reported: Sep 1, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC082595BTEX21A	GC082595BTEX21A	GC082595BTEX21A	GC082595BTEX21A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	R. Vincent	R. Vincent	R. Vincent	R. Vincent
MS/MSD #:	9508H0806	9508H0806	9508H0806	9508H0806
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	8/25/95	8/25/95	8/25/95	8/25/95
Analyzed Date:	8/25/95	8/25/95	8/25/95	8/25/95
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	11	11	11	32
MS % Recovery:	110	110	110	107
Dup. Result:	9.5	9.7	9.7	29
MSD % Recov.:	95	97	97	97
RPD:	15	13	13	9.8
RPD Limit:	0-50	0-50	0-50	0-50
LCS #:	-	-	-	-
Prepared Date:	-	-	-	-
Analyzed Date:	-	-	-	-
Instrument I.D.#:	-	-	-	-
Conc. Spiked:	-	-	-	-
LCS Result:	-	-	-	-
LCS % Recov.:	-	-	-	-
MS/MSD LCS Control Limits	71-133	72-128	72-130	71-120

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

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

Blaine Tech Services, Inc.	Client Project ID:	Chevron 9-4612/950822-K2	
985 Timothy Drive	Matrix:	Liquid	
San Jose, CA 95133			
Attention: Jim Keller	Work Order #:	9508H09-05	Reported: Sep 1, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC082395BTEX20A	GC082395BTEX20A	GC082395BTEX20A	GC082395BTEX20A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	J. Minkel	J. Minkel	J. Minkel	J. Minkel
MS/MSD #:	9508D2103	9508D2103	9508D2103	9508D2103
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	8/24/95	8/24/95	8/24/95	8/24/95
Analyzed Date:	8/24/95	8/24/95	8/24/95	8/24/95
Instrument I.D.#:	GCHP20	GCHP20	GCHP20	GCHP20
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	10	9.8	9.8	29
MS % Recovery:	100	98	98	97
Dup. Result:	9.8	9.8	10	30
MSD % Recov.:	98	98	100	100
RPD:	2.0	0.0	2.0	3.4
RPD Limit:	0-50	0-50	0-50	0-50
LCS #:	-	-	-	-
Prepared Date:	-	-	-	-
Analyzed Date:	-	-	-	-
Instrument I.D.#:	-	-	-	-
Conc. Spiked:	-	-	-	-
LCS Result:	-	-	-	-
LCS % Recov.:	-	-	-	-
MS/MSD LCS Control Limits	71-133	72-128	72-130	71-120

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

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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: 9-4612
Facility Address: 3616 San Leandro St., Oakland, CA
Consultant Project Number: 950822-K2
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): Keith Brown
Collection Date: 8/22/95
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)	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)	9508109	DO NOT BILL FOR TB-LB Remarks
VH-1	01	3	W	D	1115	HCl	Y	X									
MW2	02	3	↓	↓	1235	HCl	↓	X									
MW3	03	5			1180	HCl None		X	X								
MW4	04	3			1350	HCl		X									
TB	05	2	↓	↓	—	HCl	↓	X									

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	BTS	8/23/95 1100		Sequoia	8/23/95 1100
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
		8/23/95			
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time
					8/23/95 13:15

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

Field
Data
Sheets

WELL GAUGING DATA

Project # 950822-K2 Date 8/22 Client Chevron

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	odor				926	2793	TOC
MW2	2					1016	1949	
MW3	2					995	1958	
MW4	2					911	2054/2065	
		Unsealed Drum:			Decon Rinsate		SB-1, MW-4	

CHEVRON WELL MONITORING DATA SHEET

Project #: 950822-K2	Station #: 9-4612
Sampler: ICCR	Start Date: 8/22
Well I.D.: VH-1	Well Diameter: (circle one) 2 3 (4) 6 ___
Total Well Depth: Before 27.93 After	Depth to Water: Before 9.26 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

12.1 (1 Case Volume) x 3 (Specified Volumes) = 36.3 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:
1100	64.2	7.2	1000	—	13	gas odor
1102	64.4	7.0	960	—	26	
1105	64.4	7.0	940	—	39	

Did Well Dewater? N If yes, gals. — Gallons Actually Evacuated: 39

Sampling Time: 1115	Sampling Date: 8/22
Sample I.D.: VH-1	Laboratory: Sg
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 #: 950822-1C1	Station #: 8-4612
Sampler: 8/22	Start Date: 8/22
Well I.D.: MW2	Well Diameter: (circle one) (2) 3 4 6 ___
Total Well Depth: Before 1949 After	Depth to Water: Before 1016 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

1.5 (1 Case Volume) x 3 (Specified Volumes) = 4.5 gallons

Purging: Bailer / Disposable Bailer / Middleburg / Electric Submersible / Extraction Pump / Other ____

Sampling: Bailer / Disposable Bailer / Extraction Port / Other ____

TIME	TEMP. (F)	pH	COND. uV	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
1223	68.2	6.9	830	—	1.5	gas odor
1225	68.0	6.9	860	—	3.0	
1227	68.4	6.8	840	—	4.5	

Did Well Dewater? N If yes, gals. — Gallons Actually Evacuated: 4.5

Sampling Time: 1235	Sampling Date: 8/22
Sample I.D.: MW2	Laboratory: Sev
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)	

CHEVRON WELL MONITORING DATA SHEET

Project #: 950822-KC2	Station #: 9-4612
Sampler: KCB	Start Date: 8/22
Well I.D.: MW3	Well Diameter: (circle one) (2) 3 4 6 ___
Total Well Depth: Before 19.58 After	Depth to Water: Before 9.45 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

1.5 (1 Case Volume) x 3 (Specified Volumes) = 4.5 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:
1139	67.7	7.0	880	—	1.5	~~gas odor~~
1142	67.2	6.9	870	—	3.0	grey/tan/silty
1144	66.8	7.0	860	—	4.5	

Did Well Dewater? ✓ If yes, gals. — Gallons Actually Evacuated: 4.5

Sampling Time: 1150 Sampling Date: 8/22

Sample I.D.: MW3 Laboratory: Sa

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

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

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

CHEVRON WELL MONITORING DATA SHEET

Project #: 950822-K2 Station #: G-4612

Sampler: JCCB Start Date: 8/22

Well I.D.: MW4 Well Diameter: (circle one) (2) 3 4 6 ____

Total Well Depth: Depth to Water:

Before 20.54 After 20.65 Before 9.11 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 x 3 = 5.4

1 Case Volume Specified Volumes 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:
1336	66.2	7.1	580	—	2	light tan
1340	66.0	7.1	600	—	4	gas odor
1345	66.4	7.0	600	—	6	

Did Well Dewater? N If yes, gals. ____ Gallons Actually Evacuated: 6

Sampling Time: 1350 Sampling Date: 8/22

Sample I.D.: MW4 Laboratory: Sey

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)