



Chevron

ST1D1143

November 13, 1995

Chevron U.S.A. Products Company

6001 Bollinger Canyon Road
Building L
San Ramon, CA 94583
P.O. Box 5004
San Ramon, CA 94583-0804

Marketing - Northwest Region

Phone 510 842 9500

Ms. Susan Hugo
Alameda Co. Dept. of Environmental Health
1131 Harbor Bay Pkwy, 2nd Floor
Alameda, CA 94502-6577

Re : Chevron Service Station 9-0329
340 Highland Ave., Piedmont, California

Dear Mrs. Hugo :

The enclosed report from Blaine Tech Services dated November 9, 1995 documents the results of the October 5, 1995 monitoring and sampling report. Results show monitoring well C-1 with relatively the same concentrations as the previous quarter while well C-3 was non-detect for all analyzed constituents and C-4 had relatively lower concentrations.

In the last letter, Chevron requested a postponement on the installation of another well in the down-gradient direction because of the artesian like conditions that were exhibited by the newly installed well. The steep topography probably caused the artesian like conditions which was documented in Canonie Environmental report dated February 1995. Chevron will have its consultant drill another well in the down-gradient direction.

If you have any questions or comments, please call me at (510) 842-8752.

Sincerely,
Chevron U.S.A. Products Co.

Kenneth Kan
Engineer

LKAN/90329R02

Enclosure

cc : Mr. Kevin Graves, RWQCB -San Francisco Bay Region
2101 Webster St., Suite 500, Oakland, CA 94612

Mr. Frank Hoffman, Hoffman Investment Company
1760 willow Road, Hillsborough, CA 94010

Mir Ghafari, Chevron Service Station
340 Highland Ave., piedmont, CA 94611

Ms. Bette Owen, Chevron U.S.A. Products Co.

RECEIVED
GENERAL
NOV 16 PM 1:45



BLAINE TECH SERVICES INC.

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

November 9, 1995

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

4th Quarter 1995 Monitoring at 9-0329

Fourth Quarter 1995 Groundwater Monitoring at
Chevron Service Station Number 9-0329
340 Highland Avenue
Piedmont, CA

Monitoring Performed on October 5, 1995

Groundwater Sampling Report 951005-K-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 Chevron's Richmond Refinery for disposal.

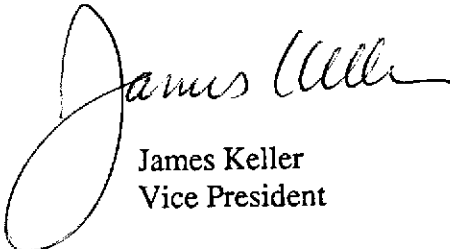
Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL DATA AND ANALYTICAL RESULTS**. The full analytical report for the most recent samples is located in the **Analytical Appendix**. The table also contains new groundwater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

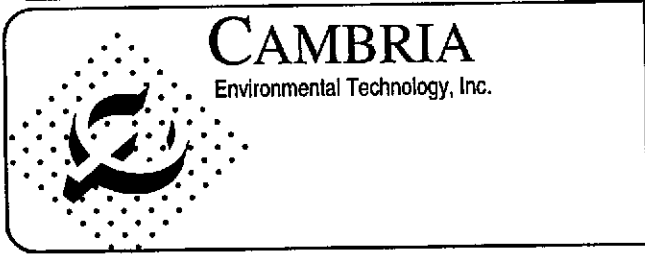
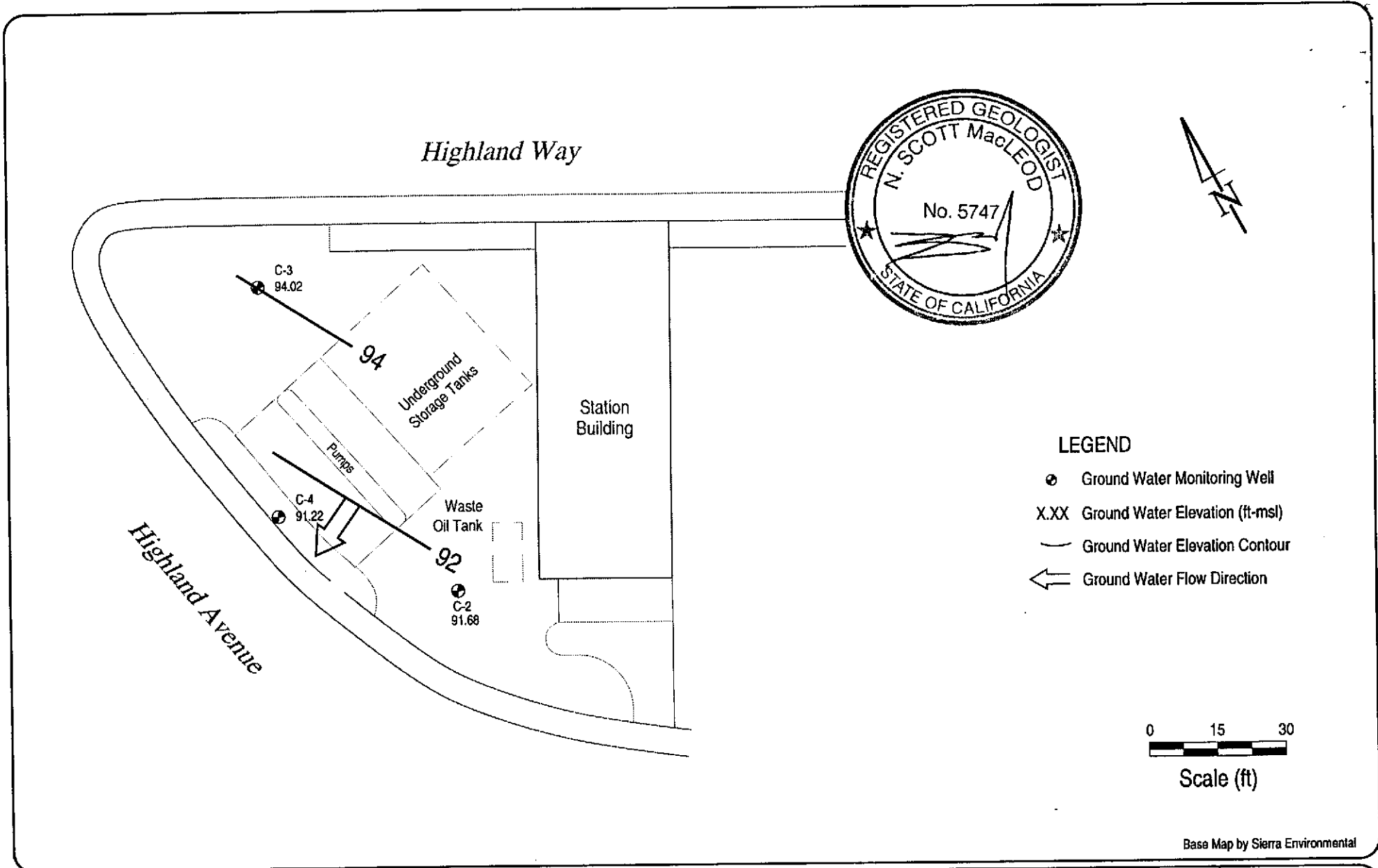


James Keller
Vice President

JPK/dk

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

Professional Engineering Appendix



Chevron Station 9-0329
340 Highland Avenue
Piedmont, California

F:\PROJECT\CHEVRON9-0329\0329-QM.DWG

Ground Water Elevation
October 5, 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
C-2									
08/07/89	94.19	91.33	2.88	--	34,000	580	60	170	270
11/15/89	94.19	91.39	2.80	--	8100	500	36	420	180
02/01/91	94.19	90.41	3.75	--	6800	490	21	310	86
04/16/91	94.19	91.64	2.55	--	9600	810	43	550	270
10/16/91	94.19	90.67	3.52	--	7100	320	23	200	60
01/08/92	94.19	90.04	4.15	--	2400	190	9.0	83	22
04/10/92	94.19	91.23	2.96	--	6600	550	33	340	170
07/14/92	94.19	91.36	2.83	--	9000	680	330	580	690
10/05/92	94.19	89.81	4.38	--	5500	250	17	130	82
01/06/93	94.19	90.25	3.94	--	5500	190	32	41	54
03/29/93	94.19	92.10	2.09	--	19,000	670	40	180	370
07/02/93	94.19	92.10	2.09	--	8000	1100	41	420	500
10/11/93	94.19	91.43	2.76	--	42,000	940	34	140	87
01/10/94	94.19	89.37	4.82	--	12,000	770	20	220	74
04/06/94	94.19	91.70	2.49	--	40,000	820	33	190	110
07/06/94	94.19	91.72	2.47	--	8800	870	28	140	95
11/11/94	94.19	91.32	2.87	--	8600	460	81	180	120
01/06/95	94.19	91.64	2.55	--	15,000	880	48	270	140
04/13/95	94.19	92.13	2.06	--	56,000	2500	130	730	360
07/25/95	94.19	92.05	2.14	--	11,000	1000	34	540	160
10/05/95	94.19	91.68	2.51	--	13,000	1000	<20	160	170

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
C-3									
08/07/89	97.65	93.36	4.29	--	<50	<0.5	<1.0	<1.0	<3.0
11/15/89	97.65	92.48	5.17	--	<500	<0.5	2.8	<0.5	1.1
02/01/91	97.65	91.27	6.38	--	<50	<0.5	<0.5	<0.5	<0.5
04/16/91	97.65	93.93	3.72	--	<50	<0.5	<0.5	<0.5	<0.5
10/16/91	97.65	89.45	8.20	--	<50	<0.5	<0.5	<0.5	<0.5
01/08/92	97.65	90.97	6.68	--	<50	<0.5	<0.5	<0.5	<0.5
04/10/92	97.65	93.15	4.50	--	<50	<0.5	<0.5	<0.5	<0.5
07/14/92	97.65	91.44	6.21	--	<50	<0.5	<0.5	<0.5	<0.5
10/05/92	97.65	88.34	9.31	--	<50	<0.5	<0.5	<0.5	<0.5
01/06/93	97.65	94.24	3.41	--	<50	<0.5	<0.5	<0.5	<0.5
03/29/93	97.65	97.15	0.50	--	<50	<0.5	<0.5	<0.5	0.8
07/02/93	97.65	95.06	2.59	--	<50	4.0	3.0	<0.5	3.0
10/11/93	97.65	92.75	4.90	--	<50	<0.5	<0.5	<0.5	<0.5
01/10/94	97.65	93.26	4.39	--	<50	<0.5	1.0	<0.5	0.8
04/06/94	97.65	94.97	2.68	--	<50	<0.5	1.0	0.7	4.5
07/06/94	97.65	95.55	2.10	--	<50	2.2	4.1	<0.5	2.8
11/11/94	97.65	96.42	1.23	--	<50	<0.5	0.8	<0.5	<0.5
01/06/95	97.65	97.05	0.60	--	<50	<0.5	<0.5	<0.5	<0.5
04/13/95	97.65	97.05	0.60	--	<50	<0.5	<0.5	<0.5	<0.5
07/25/95	97.65	96.00	1.65	--	<50	<0.5	<0.5	<0.5	<0.5
10/05/95	97.65	94.02	3.63	--	<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
C-4									
08/07/89	95.60	--	--	Dry	--	--	--	--	--
11/15/89	95.60	90.65	4.95	--	1300	2.9	310	0.5	2.9
02/01/91	95.60	90.82	4.78	--	72	9.0	<0.5	<0.5	<0.5
04/16/91	95.60	95.60	4.83	--	<50	<0.5	<0.5	<0.5	<0.5
10/16/91	95.60	91.37	4.23	--	<50	<0.5	<0.5	<0.5	<0.5
01/08/92	95.60	90.79	4.81	--	<50	<0.5	<0.5	<0.5	<0.5
04/10/92	95.60	91.34	4.26	--	<50	<0.5	<0.5	<0.5	<0.5
07/14/92	95.60	91.32	4.28	--	<50	<0.5	3.8	<0.5	<0.5
10/05/92	95.60	91.31	4.29	--	<50	<0.5	<0.5	<0.5	<0.5
01/06/93	95.60	91.31	4.29	--	<50	0.7	<0.5	<0.5	<0.5
03/29/93	95.60	91.30	4.30	--	<50	0.5	1.0	<0.5	2.0
07/02/93	95.60	91.38	4.22	--	<50	<0.5	<0.5	<0.5	<0.5
10/11/93	95.60	91.30	4.30	--	<50	0.6	<0.5	<0.5	<0.5
01/10/94	95.60	91.16	4.44	--	<50	0.7	3.0	<0.5	1.0
04/06/94	95.60	91.36	4.24	--	130	2.2	5.4	3.3	24
07/06/94	95.60	91.36	4.24	--	99	5.9	7.5	2.0	12
11/11/94	95.60	91.39	4.21	--	<50	<0.5	9.5	<0.5	<0.5
01/06/95	95.60	91.18	4.42	--	<50	0.7	1.0	<0.5	1.1
04/13/95	95.60	91.36	4.24	--	67	0.54	7.2	<0.5	1.1
07/25/95	95.60	91.36	4.24	--	390	<2.0	150	<2.0	<2.0
10/05/95	95.60	91.22	4.38	--	130	<0.5	66	<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
Backfill Well: A									
08/07/89	--	--	2.10	--	1000	50	6.0	5.0	22
11/15/89	--	--	2.04	--	3700	98	2.1	4.3	55
02/01/91	--	--	3.05	--	36,000	1100	750	130	6100
04/16/91	--	--	2.01	--	8000	370	6.0	86	750
10/16/91	--	--	4.15	--	--	--	--	--	--

Backfill Well: B

08/07/89	--	--	4.12	--	--	--	--	--	--
11/15/89	--	--	--	--	--	--	--	--	--
02/01/91	--	--	5.03	--	--	--	--	--	--
04/16/91	--	--	4.00	--	--	--	--	--	--
10/16/91	--	--	6.24	--	--	--	--	--	--

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
TRIP BLANK									
01/06/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5
03/29/93	--	--	--	--	<50	<0.5	<0.5	<0.5	1.0
07/02/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5
10/11/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5
01/10/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5
04/06/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5
07/06/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5
11/11/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5
01/06/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5
04/13/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5
07/25/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5
10/05/95	--	--	--	--	<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 April 13, 1995.
Earlier field data and analytical results provided by Sierra Environmental.

ABBREVIATIONS:

TPH = Total Petroleum Hydrocarbons

Analytical Appendix



Blaine Technical Services 985 Timothy Drive San Jose, CA 95133	Client Proj. ID: Chevron 9-0329/951005-K3 Sample Descript: C-2 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9510689-01	Sampled: 10/05/95 Received: 10/10/95 Analyzed: 10/11/95 Reported: 10/13/95
--	--	---

QC Batch Number: GC101195BTEX21A
Instrument ID: GCHP21

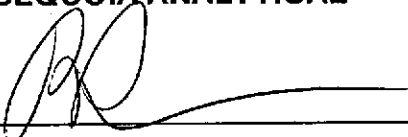
Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	2000	13000
Benzene	20	1000
Toluene	20	N.D.
Ethyl Benzene	20	160
Xylenes (Total)	20	170
Chromatogram Pattern:		Gas

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





Blaine Technical Services 985 Timothy Drive San Jose, CA 95133	Client Proj. ID: Chevron 9-0329/951005-K3 Sample Descript: C-3 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9510689-02	Sampled: 10/05/95 Received: 10/10/95 Analyzed: 10/11/95 Reported: 10/13/95
--	--	---


QC Batch Number: GC101195BTEX20A
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	81

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 985 Timothy Drive San Jose, CA 95133	Client Proj. ID: Chevron 9-0329/951005-K3 Sample Descript: C-4 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9510689-03	Sampled: 10/05/95 Received: 10/10/95 Analyzed: 10/11/95 Reported: 10/13/95
Attention: Jim Keller		

QC Batch Number: GC101195BTEX03A
Instrument ID: GCHP03

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	130
Benzene	0.50	N.D.
Toluene	0.50	66
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern: Discrete Peak		...
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	83

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 985 Timothy Drive San Jose, CA 95133	Client Proj. ID: Chevron 9-0329/951005-K3 Sample Descript: TB Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9510689-04	Sampled: 10/05/95 Received: 10/10/95 Analyzed: 10/11/95 Reported: 10/13/95
Attention: Jim Keller		

QC Batch Number: GC101195BTEX02A
Instrument ID: GCHP02

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	89

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

Client Proj. ID: Chevron 9-0329/951005-K3
Lab Proj. ID: 9510689

Received: 10/10/95
Reported: 10/13/95

LABORATORY NARRATIVE

TPPH Note: Sample 9510689-01 was diluted 40-fold.

SEQUOIA ANALYTICAL

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

Client Project ID: Chevron 9-0329/951005-K3
Matrix: Liquid

Work Order #: 9510689 -01

Reported: Oct 16, 1995

QUALITY CONTROL DATA REPORT


Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC101195BTEX21A	GC101195BTEX21A	GC101195BTEX21A	GC101195BTEX21A
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 #:	9509J7804	9509J7804	9509J7804	9509J7804
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	10/11/95	10/11/95	10/11/95	10/11/95
Analyzed Date:	10/11/95	10/11/95	10/11/95	10/11/95
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	11	11	9.7	28
MS % Recovery:	110	110	97	93
Dup. Result:	11	10	9.8	29
MSD % Recov.:	110	100	98	97
RPD:	0.0	9.5	1.0	3.5
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	71-133	72-128	72-130	71-120
LCS				
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

9510689.BLA <1>





Blaine Tech Services, Inc. 985 Timothy Drive San Jose, CA 95133 Attention: Jim Keller	Client Project ID: Chevron 9-0329/951005-K3 Matrix: Liquid Work Order #: 9510689-02	Reported: Oct 16, 1995
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QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC101195BTEX20A	GC101195BTEX20A	GC101195BTEX20A	GC101195BTEX20A
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 #:	9509J7804	9509J7804	9509J7804	9509J7804
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	10/11/95	10/11/95	10/11/95	10/11/95
Analyzed Date:	10/11/95	10/11/95	10/11/95	10/11/95
Instrument I.D.#:	GCHP20	GCHP20	GCHP20	GCHP20
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	11	11	11	31
MS % Recovery:	110	110	110	103
Dup. Result:	10	10	10	30
MSD % Recov.:	100	100	100	100
RPD:	9.5	9.5	9.5	3.3
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
Control Limits				

SEQUOIA ANALYTICAL

Peggy Penner
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.





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

Client Project ID: **Chevron 9-0329/951005-K3**
Matrix: **Liquid**

Work Order #: **9510689-03**

Reported: **Oct 16, 1995**

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC101195BTEX03A	GC101195BTEX03A	GC101195BTEX03A	GC101195BTEX03A
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 #:	9509J7804	9509J7804	9509J7804	9509J7804
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	10/11/95	10/11/95	10/11/95	10/11/95
Analyzed Date:	10/11/95	10/11/95	10/11/95	10/11/95
Instrument I.D.#:	GCHP3	GCHP3	GCHP3	GCHP3
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	10	10	10	30
MS % Recovery:	100	100	100	100
Dup. Result:	12	12	12	36
MSD % Recov.:	120	120	120	120
RPD:	18	18	18	18
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:	BLK101195	BLK101195	BLK101195	BLK101195
Prepared Date:	10/11/95	10/11/95	10/11/95	10/11/95
Analyzed Date:	10/11/95	10/11/95	10/11/95	10/11/95
Instrument I.D.#:	GCHP17	GCHP17	GCHP17	GCHP17
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	10 µg/L
LCS Result:	10	10	10	30
LCS % Recov.:	100	100	100	100

MS/MSD LCS Control Limits	71-133	72-128	72-130	71-120
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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.

SEQUOIA ANALYTICAL

[Signature]
Peggy Penner
Project Manager

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

9510689.BLA <3>





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

Client Project ID: Chevron 9-0329/951005-K3
Matrix: Liquid

Work Order #: 9510689-04

Reported: Oct 16, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC101195BTEX02A	GC101195BTEX02A	GC101195BTEX02A	GC101195BTEX02A
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 #:	9509J7804	9509J7804	9509J7804	9509J7804
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	10/11/95	10/11/95	10/11/95	10/11/95
Analyzed Date:	10/11/95	10/11/95	10/11/95	10/11/95
Instrument I.D.#:	GCHP2	GCHP2	GCHP2	GCHP2
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	9.9	9.8	9.7	29
MS % Recovery:	99	98	97	97
Dup. Result:	10	10	10	30
MSD % Recov.:	100	100	100	100
RPD:	1.0	2.0	3.0	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	71-133	72-128	72-130	71-120
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

9510689.BLA <4>



Field Data Sheets

CHEVRON WELL MONITORING DATA SHEET

Project #: <u>951005-KB</u>	Station #: <u>9-D329</u>
Sampler: <u>KAB</u>	Start Date: <u>10/5</u>
Well I.D.: <u>C-2</u>	Well Diameter: (circle one) <u>2</u> 3 4 6
Total Well Depth: Before <u>1584</u> After	Depth to Water: Before <u>251</u> After
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet):
Measurements referenced to: <u>(eye)</u>	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

<u>2.1</u>	x	<u>3</u>	=	<u>6.3</u>
1 Case Volume		Specified Volumes	gallons	

Purging: Bailer Disposable Bailer <input checked="" type="checkbox"/> Middleburg Electric Submersible Extraction Pump Other _____	Sampling: Bailer Disposable Bailer <input checked="" type="checkbox"/> Extraction Port Other _____
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TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
<u>1234</u>	<u>70.4</u>	<u>7.1</u>	<u>880</u>	—	<u>2.5</u>	<u>Hydrom</u>
<u>1337</u>	<u>68.2</u>	<u>7.0</u>	<u>840</u>	—	<u>4.5</u>	<u>strong gas odor</u>
<u>1342</u>	<u>68.0</u>	<u>7.1</u>	<u>850</u>	—	<u>6.5</u>	<u>Dark grey/silty</u>
			<u>FP Blobs in water</u>			

Did Well Dewater? N If yes, gals. — Gallons Actually Evacuated: 6.5

Sampling Time: 1345 Sampling Date: 10/5

Sample I.D.: C-2 Laboratory: SEC

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

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

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

CHEVRON WELL MONITORING DATA SHEET

Project #: <u>951005-K3</u>	Station #: <u>9-0329</u>
Sampler: <u>KOB</u>	Start Date: <u>10/5</u>
Well I.D.: <u>C-3</u>	Well Diameter: (circle one) <u>2</u> 3 4 6
Total Well Depth: Before <u>1491</u> After	Depth to Water: Before <u>363</u> After
Depth to Free Product: <u> </u>	Thickness of Free Product (feet):
Measurements referenced to: <u>(EVC)</u>	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

<u>1.8</u>	\times	<u>3</u>	$=$	<u>5.4</u>	gallons
1 Case Volume		Specified Volumes			

Purging: Bailer Disposable Bailer <input checked="" type="checkbox"/> Middleburg Electric Submersible Extraction Pump Other _____	Sampling: Bailer Disposable Bailer <input checked="" type="checkbox"/> Extraction Port Other _____
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TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
<u>1249</u>	<u>72.4</u>	<u>6.8</u>	<u>880</u>	—	<u>2</u>	<u>slty</u>
<u>1252</u>	<u>69.4</u>	<u>6.8</u>	<u>600</u>	—	<u>4</u>	
<u>1255</u>	<u>68.6</u>	<u>6.7</u>	<u>620</u>	—	<u>5.5</u>	

Did Well Dewater? If yes, gals _____ Gallons Actually Evacuated: 5.5

Sampling Time: <u>1300</u>	Sampling Date: <u>10/5</u>
Sample I.D.: <u>C-3</u>	Laboratory: <u>SEA</u>
Analyzed for: <u>(TPH-G)</u> <u>(BTEX)</u> TPH-D OTHER:	
Duplicate I.D.:	Cleaning Blank I.D.:
Analyzed for: TPH-G BTEX TPH-D OTHER:	

CHEVRON WELL MONITORING DATA SHEET

Project #: <u>951005-1C3</u>	Station #: <u>9-0329</u>
Sampler: <u>1C3B</u>	Start Date: <u>10/5</u>
Well I.D.: <u>2-1</u>	Well Diameter: (circle one) 2 3 4 6 <u> </u>
Total Well Depth: Before <u>1025</u> After <u> </u>	Depth to Water: Before <u>438</u> After <u> </u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
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

<u>0.9</u>	<u>x</u>	<u>3</u>	<u>=</u>	<u>2.7</u>	gallons
1 Case Volume		Specified Volumes			

Purging: Bailer Disposable Bailer <input checked="" type="checkbox"/> Middleburg Electric Submersible Extraction Pump Other _____	Sampling: Bailer Disposable Bailer <input checked="" type="checkbox"/> Extraction Port Other _____
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TIME	TEMP. (F)	PH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
<u>1312</u>	<u>65.0</u>	<u>7.0</u>	<u>520</u>	<u>—</u>	<u>1</u>	<u>slty</u>
<u>1313</u>	<u>64.2</u>	<u>7.1</u>	<u>480</u>	<u>—</u>	<u>2</u>	<u>odor?</u>
<u>1314</u>	<u>64.4</u>	<u>7.0</u>	<u>420</u>	<u>—</u>	<u>3</u>	

Did Well Dewater? If yes, gals. Gallons Actually Evacuated: 3

Sampling Time: 1320 Sampling Date: 10/5

Sample I.D.: 2-4 Laboratory: SEF

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

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

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