

99 FEB 23 PM 6:59

February 18, 1999

Chevron Products Company
6001 Bollinger Canyon Road
Building L, Room 1110
PO Box 6004
San Ramon, CA 94583-0904

Philip R. Briggs
Project Manager
Site Assessment & Remediation
Phone 925 842-9136
Fax 925 842-8370

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

Re: Former Signal Service Station #S0800
800 Center Street
Oakland, California

Dear Mr. Seto:

Enclosed is a copy of the Fourth Quarter Groundwater Monitoring report for 1998 that was prepared by our consultant Blaine Tech Services, Inc. for the above noted facility. Groundwater samples were analyzed for TPH-g, BTEX and MtBE constituents. Monitoring wells MW-2 and MW-7 are sampled annually (1st quarter) with wells MW-4 and MW-5 sampled semi-annually (1st & 3rd quarters). Wells MW-1, MW-3 and MW-6 are sampled quarterly.

In monitoring well MW-6 the concentrations were below method detection limits for all the constituents. The benzene concentration decreased in monitoring well MW-1 while increasing in well MW-3 from the previous sampling event. No sample was taken from well MW-5, as it was inaccessible, due to a car parked over it.

The depth to ground water varied from 8.79 feet to 10.47 feet below grade with a direction of flow southwesterly.

It is expected that remedial activity related to site remediation at this site and in accordance with the approved work plan will commence within 45 days.

February 18, 1999
Mr. Larry Seto
Former Signal Service Station #S0800
Page 2

Chevron will continue to monitor the site based on the sampling frequency noted above. If you have any questions please call me at (925) 842-9136.

Sincerely,
CHEVRON PRODUCTS COMPANY



Philip R. Briggs
Site Assessment and Remediation Project Manager

Enclosure

cc: Ms. Bette Owen, Chevron

Ms. Ann Payne, Chevron, V-1156

Mr. Terrell A. Sadler
618 Brooklyn Avenue
Oakland, CA. 94606

Mr. James Scott
BPH, Inc.
333 Hegenberger Road, Suite 209
Oakland, CA 94621

Mr. Hollis Rodgers
c/o Victor E. Brown, Esq.
580 Grand Avenue
Oakland, CA 94610

Mr. James Perkins, R.G., C.E.M.
Pacific Environmental Group, Inc.
2025 Gateway Place, Suite 440
San Jose, CA 95110

BLAINE
TECH SERVICES INC.



1680 ROGERS AVENUE
SAN JOSE, CA 95112-1105
(408) 573-7771 FAX
(408) 573-0555 PHONE

January 20, 1999

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

4th Quarter 1998 Monitoring at 206145 (S-800)

Fourth Quarter 1998 Groundwater Monitoring at
Former Chevron Service Station Number 206145
800 Center St.
Oakland, CA

Monitoring Performed on November 4, 1998

Groundwater Sampling Report 981104-P-4

This report covers the routine 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**.

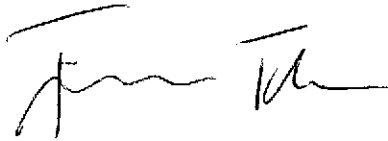
map which is located in the **Professional Engineering Appendix**.

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,

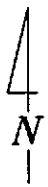
A handwritten signature in black ink, appearing to read 'Francis Thie', written in a cursive style.

Francis Thie
Vice President

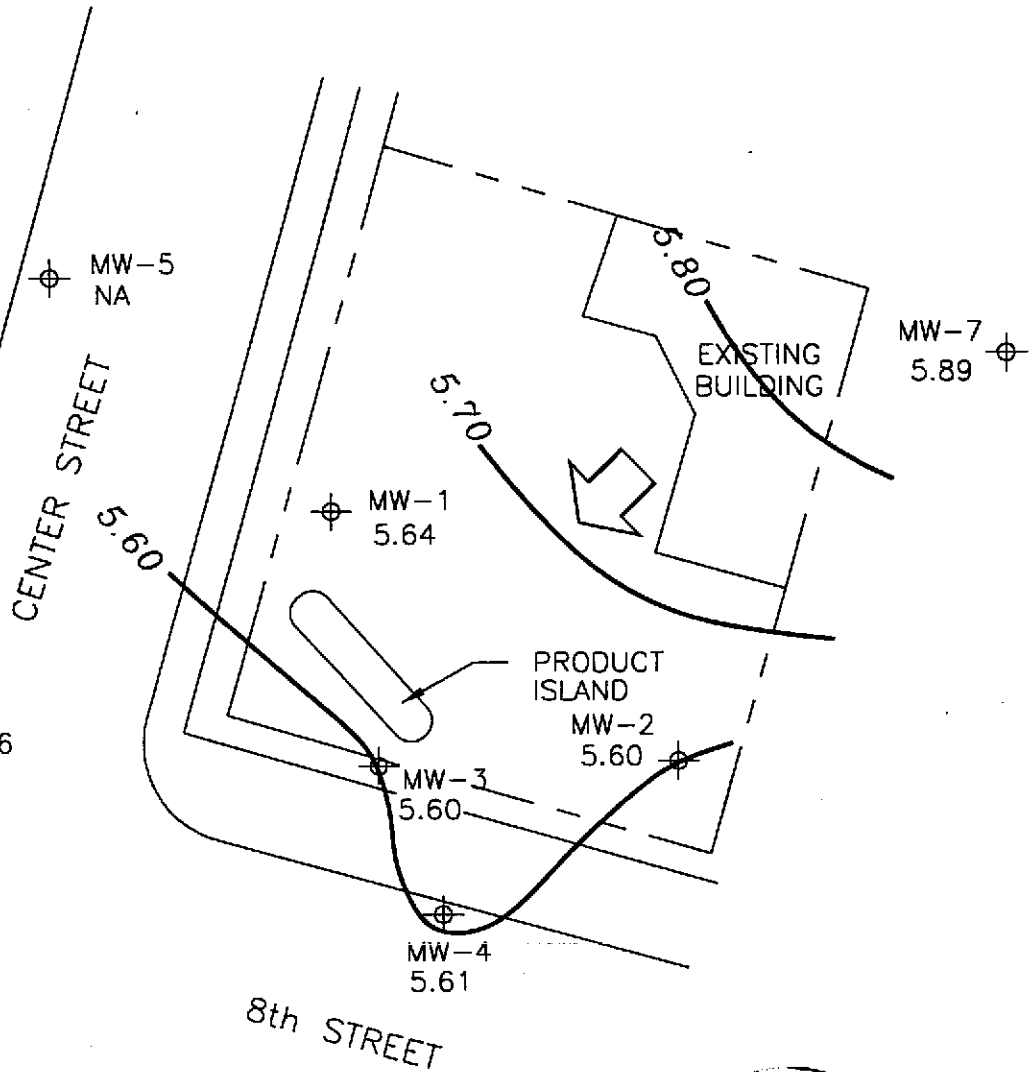
FPT/mt

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


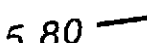

Professional Engineering Appendix



SCALE (ft)



EXPLANATION

-  MONITORING WELL
- 5.52 GROUNDWATER ELEVATION (FT, MSL)
-  GROUNDWATER ELEVATION CONTOUR (FT, MSL)
- NA DATA NOT AVAILABLE
-  APPROXIMATE GROUNDWATER FLOW DIRECTION;
APPROXIMATE GRADIENT = 0.005



Ref. 206145.dwg
Basemap from Ron Archer Engineer Inc.

PREPARED BY

RRM
engineering contracting firm

Former Signal Service Station 206145

800 Center Street
Oakland, California

**GROUNDWATER ELEVATION CONTOUR MAP,
NOVEMBER 4, 1998**

FIGURE:

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	MTBE	CUB (cfu/ml)	
MW-1												
10/27/95	15.69	10.54	5.15	--	170,000	19,000	34,000	4800	26,000	--	--	
02/20/97	15.64	8.96	6.68	--	18,000	870	3500	470	2100	<250	--	
04/24/97	15.64	7.30	8.34	--	76,000	4600	16,000	1600	8300	1000	--	
07/23/97	15.64	5.90	9.74	--	37,000	2700	8000	870	6100	<250	--	
10/29/97	15.64	--	--	Inaccessible	--	--	--	--	--	--	--	
01/28/98	15.64	9.30	6.34	--	10,000	380	2000	300	1500	<25	--	
05/11/98	15.64	8.72	6.92	--	17,000	880	3100	380	2300	<250	--	
07/16/98	15.64	7.23	8.41	--	29,000	2700	6800	890	3900	<1000	--	
08/04/98	15.64	6.90	8.74	**	--	--	--	--	--	--	<1.0 x 10 ¹	
09/03/98	15.64	6.43	9.21	**/+	--	--	--	--	--	--	4.1 x 10 ³	
10/21/98	15.64	5.59	10.05	***	--	--	--	--	--	--	4.7 x 10 ²	
11/04/98	15.64	5.64	10.00	--	25,000	1900	5900	810	4300	<125	--	
MW-2												
10/27/95	15.77	10.60	5.17	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	
02/20/97	15.72	8.51	7.21	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	
04/24/97	15.72	7.82	7.90	--	83*	<0.5	<0.5	<0.5	<0.5	<2.5	--	
07/23/97	15.72	5.92	9.80	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	
10/29/97	15.72	5.13	10.59	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	
01/28/98	15.72	9.21	6.51	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	
05/11/98	15.72	8.82	6.90	Sampled annually	--	--	--	--	--	--	--	
07/16/98	15.72	7.37	8.35	--	--	--	--	--	--	--	--	
08/04/98	15.72	7.03	8.69	**	--	--	--	--	--	--	1.9 x 10 ¹	
09/03/98	15.72	6.44	9.28	**/+	--	--	--	--	--	--	3.0 x 10 ²	
10/21/98	15.72	5.51	10.21	***	--	--	--	--	--	--	8.8 x 10 ²	
11/04/98	15.72	5.60	10.12	--	--	--	--	--	--	--	--	

* Chromatogram pattern indicates an unidentified hydrocarbon.

** Contaminate hydrocarbon utilizing bacteria plate count was run with diesel and jet fuel degraders.

***Contaminate hydrocarbon utilizing bacteria plate count was run with gasoline degraders.

+ See Table of Additional Analyses.

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	MTBE	CUB (cfu/ml)
MW-3											
10/27/95	15.46	10.37	5.09	--	33,000	11,000	1700	2300	4200	--	--
02/20/97	15.42	8.37	7.05	--	260	56	<1.0	7.6	5.9	<5.0	--
04/24/97	15.42	7.29	8.13	--	1400	310	28	76	75	74	--
07/23/97	15.42	5.84	9.58	--	37,000	10,000	1500	2700	4200	2500	--
10/29/97	15.42	5.09	10.33	--	53,000	12,000	1200	3000	3100	2500	--
01/28/98	15.42	8.94	6.48	--	210	43	1.5	1.7	3.9	10	--
05/11/98	15.42	8.49	6.93	--	59	11	<0.5	2.1	<0.5	<2.5	--
07/16/98	15.42	7.14	8.28	--	260	90	4.8	18	5.7	<10	--
08/04/98	15.42	6.88	8.54	*	--	--	--	--	--	--	8.5 x 10 ²
09/03/98	15.42	6.34	9.08	*/+	--	--	--	--	--	--	2.4 x 10 ³
10/21/98	15.42	5.62	9.80	**	--	--	--	--	--	--	6.0 x 10 ¹
11/04/98	15.42	5.60	9.82	--	73,000	17,000	3800	4900	8100	<250	--
MW-4											
10/27/95	14.45	9.37	5.08	--	66	6.8	<0.5	<0.5	<0.5	--	--
02/20/97	14.40	8.12	6.28	--	54	<0.5	<0.5	<0.5	7.4	39	--
04/24/97	14.40	7.29	7.11	--	54	1.4	<0.5	0.65	3.0	100	--
07/23/97	14.40	5.80	8.60	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/29/97	14.40	5.74	8.66	Inaccessible	--	--	--	--	--	--	--
11/13/97	14.40	4.97	9.43	--	<50	<0.5	0.79	<0.5	<0.5	<2.5	--
01/28/98	14.40	8.88	5.52	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/11/98	14.40	8.40	6.00	Sampled biannually	--	--	--	--	--	--	--
07/16/98	14.40	7.08	7.32	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
08/04/98	14.40	6.28	8.12	*	--	--	--	--	--	--	1.8 x 10 ⁴
09/03/98	14.40	6.32	8.08	*/+	--	--	--	--	--	--	1.4 x 10 ⁴
10/21/98	14.40	5.64	8.76	**	--	--	--	--	--	--	8.6 x 10 ⁴
11/04/98	14.40	5.61	8.79	--	--	--	--	--	--	--	--

* Contaminate hydrocarbon utilizing bacteria plate count was run with diesel and jet fuel degraders.

** Contaminate hydrocarbon utilizing bacteria plate count was run with gasoline degraders.

+ See Table of Additional Analyses.

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	MTBE	CUB (cfu/ml)
MW-5											
01/03/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/20/97	15.03	--	--	Inaccessible	--	--	--	--	--	--	--
04/24/97	15.03	--	--	Inaccessible	--	--	--	--	--	--	--
04/30/97	15.03	7.06	7.97	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/23/97	15.03	--	--	Inaccessible	--	--	--	--	--	--	--
10/29/97	15.03	--	--	Inaccessible	--	--	--	--	--	--	--
01/28/98	15.03	8.83	6.20	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/11/98	15.03	--	--	Inaccessible	--	--	--	--	--	--	--
07/16/98	15.03	7.28	7.75	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
08/04/98	15.03	--	--	Inaccessible	--	--	--	--	--	--	--
11/04/98	15.03	--	--	Inaccessible	--	--	--	--	--	--	--
MW-6											
01/03/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/20/97	14.73	8.11	6.62	--	800	310	23	11	28	<12	--
04/24/97	14.73	7.13	7.60	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/23/97	14.73	5.73	9.00	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/29/97	14.73	4.98	9.75	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/28/98	14.73	8.19	6.54	--	160	38	<0.5	<0.5	<0.5	<2.5	--
05/11/98	14.73	8.08	6.65	--	1700	490	72	39	52	<25	--
07/16/98	14.73	7.04	7.69	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
08/04/98	14.73	6.89	7.84	*	--	--	--	--	--	--	8.6 x 10 ³
09/03/98	14.73	6.24	8.49	*/+	--	--	--	--	--	--	2.9 x 10 ³
10/21/98	14.73	5.46	9.27	**	--	--	--	--	--	--	1.8 x 10 ³
11/04/98	14.73	5.52	9.21	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--

* Contaminate hydrocarbon utilizing bacteria plate count was run with diesel and jet fuel degraders.

**Contaminate hydrocarbon utilizing bacteria plate count was run with gasoline degraders.

+ See Table of Additional Analyses.

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	MTBE	CUB (cfu/ml)
MW-7											
01/03/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/20/97	16.36	8.86	7.50	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/24/97	16.36	7.59	8.77	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/23/97	16.36	6.09	10.27	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/29/97	16.36	5.28	11.08	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/28/98	16.36	9.10	7.26	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/11/98	16.36	9.11	7.25	Sampled annually	--	--	--	--	--	--	--
07/16/98	16.36	8.00	8.36	--	--	--	--	--	--	--	--
08/04/98	16.36	7.32	9.04	*	--	--	--	--	--	--	1.5 x 10 ³
09/03/98	16.36	6.65	9.71	*/+	--	--	--	--	--	--	6.5 x 10 ²
10/21/98	16.36	5.96	10.40	**	--	--	--	--	--	--	4.8 x 10 ³
11/04/98	16.36	5.89	10.47	--	--	--	--	--	--	--	--

* Contaminate hydrocarbon utilizing bacteria plate count was run with diesel and jet fuel degraders.

**Contaminate hydrocarbon utilizing bacteria plate count was run with gasoline degraders.

+ See Table of Additional Analyses.

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	MTBE	CUB (cfu/ml)
TRIP BLANK											
02/20/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/24/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/23/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/29/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/28/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/11/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/16/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
11/04/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--

Cumulative Table of Well Data and Analytical Results

ADDITIONAL ANALYSES

Analytical values are in parts per billion (ppb)

DATE	Notes	Total Alkalinity	Ferrous Iron	Nitrate as Nitrate	Sulfate	Pre-purge D.O. (mg/L)	Post-purge D.O. (mg/L)	Pre-purge O.R.P. (mV)	Post-purge O.R.P. (mV)
MW-1									
09/03/98	--	230,000	9800	<1000	6100	2.3	1.6	-90	-103
MW-2									
09/03/98	--	390,000	7400	<1000	21,000	2.8	2.5	-206	-163
MW-3									
09/03/98	--	830,000	45,000	<1000	10,000	3.1	0.7	-124	-99
MW-4									
09/03/98	--	--	--	--	--	2.6	1.1	-190	-206
MW-6									
09/03/98	--	94,000	62	28,000	47,000	2.6	3.2	-148	-167
MW-7									
09/03/98	--	170,000	120	7800	57,000	2.7	3.2	-207	-229

Note: Blaine Tech Services, Inc. began routine monitoring of the groundwater wells at this site on February 20, 1997.

Earlier field data and analytical results are drawn from the January 24, 1997 Groundwater Technology, Inc. report.

ABBREVIATIONS:

TPH = Total Petroleum Hydrocarbons

MTBE = Methyl t-Butyl Ether

ND = Not detected at or above the minimum quantitation limit. See laboratory reports for minimum quantitation limits.

CUB = Contaminate Utilizing Bacteria

Analytical Appendix



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite B
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

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FAX (707) 792-0342

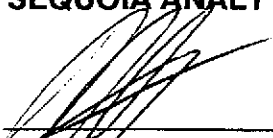
Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Chevron 206145/981104-P4 Sample Descript: MW-1 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9811289-01	Sampled: 11/04/98 Received: 11/05/98 Analyzed: 11/12/98 Reported: 11/18/98
Attention: Fran Thie		

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	2500	25000
Methyl t-Butyl Ether	125	N.D.
Benzene	25	1900
Toluene	25	5900
Ethyl Benzene	25	810
Xylenes (Total)	25	4300
Chromatogram Pattern:		GAS
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



Mike Gregory
Project Manager





**Sequoia
Analytical**

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd, North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
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FAX (916) 921-0100
FAX (707) 792-0342

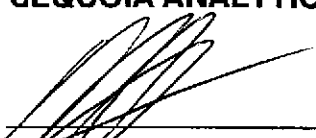
Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Chevron 206145/981104-P4 Sample Descript: MW-3 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9811289-02	Sampled: 11/04/98 Received: 11/05/98 Analyzed: 11/12/98 Reported: 11/18/98
Attention: Fran Thie		

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	5000	73000
Methyl t-Butyl Ether	250	N.D.
Benzene	50	17000
Toluene	50	3800
Ethyl Benzene	50	4900
Xylenes (Total)	50	8100
Chromatogram Pattern:		GAS
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	105

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

SEQUOIA ANALYTICAL - ELAP #1210


Mike Gregory
Project Manager





**Sequoia
Analytical**

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FAX (707) 792-0342

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Fran Thie	Client Proj. ID: Chevron 206145/981104-P4 Sample Descript: MW-6 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9811289-03	Sampled: 11/04/98 Received: 11/05/98 Analyzed: 11/12/98 Reported: 11/18/98
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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	104

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

SEQUOIA ANALYTICAL - ELAP #1210



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Project Manager





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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Fran Thie	Client Proj. ID: Chevron 206145/981104-P4 Sample Descript: TB Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9811289-04	Sampled: 11/04/98 Received: 11/05/98 Analyzed: 11/12/98 Reported: 11/18/98
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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	105

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

SEQUOIA ANALYTICAL - ELAP #1210


Mike Gregory
Project Manager





**Sequoia
Analytical**

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FAX (707) 792-0342

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Fran Thie	Client Proj. ID: Chevron 206145/981104-P4 Lab Proj. ID: 9811289	Received: 11/05/98 Reported: 11/18/98
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LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 7 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

TPH-GAS/BTEX:

Sample 9811289-01 was diluted 50-fold.
Sample 9811289-02 was diluted 100-fold.

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager





Sequoia Analytical

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Blaine Tech Services, Inc.
1680 Rogers Ave.
San Jose, CA 95112
Attention: Fran Thie

Client Project ID: Chevron 206145/ 981104-P4
Matrix: Liquid

Work Order #: 9811289 -01-04

Reported: Nov 18, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Gasoline
QC Batch#:	8110194
Analy. Method:	EPA 8015M
Prep. Method:	EPA 8020M

Analyst: -
MS/MSD #: P811045-06
Sample Conc.: N.D.
Prepared Date: 11/12/98
Analyzed Date: 11/12/98
Instrument I.D.#: -
Conc. Spiked: 1000 µg/L

Result: 937
MS % Recovery: 93.7

Dup. Result: 938
MSD % Recov.: 93.8

RPD: 0.107
RPD Limit: 0-12

LCS #: LCS111298
Prepared Date: 11/12/98
Analyzed Date: 11/13/98
Instrument I.D.#: -
Conc. Spiked: 1000 µg/L
LCS Result: 941
LCS % Recov.: 94.1

MS/MSD	53-146
LCS	79-127
Control Limits	

SEQUOIA ANALYTICAL
Elap #2245

Mike Gregory
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

9811289.BLA <1>



Field Data Sheets

CHEVRON WELL MONITORING DATA SHEET

Project #: 981104-P4	Station #: 206145
Sampler: P-1	Date: 11-4-98
Well I.D.: MW-1	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth: 13.95	Depth to Water: 10.00
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius ² * 0.163

Purge Method: Bailer
Disposable Bailer
 Middleburg
 Electric Submersible
 Extraction Pump

Other: _____

Sampling Method: Bailer
Disposable Bailer
 Extraction Port

Other: _____

<u>.05</u>	x	<u>3</u>	=	<u>1.5</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
15:35	68.0	6.4	500	.05	
15:36	67.4	6.4	500	1.0	
15:37	67.2	6.5	520	1.5	

Did well dewater? Yes No Gallons actually evacuated: 1.5

Sampling Time: 15:42 Sampling Date: 11-4-98

Sample I.D.: MW-1 Laboratory: Sequoia CORE N. Creek Assoc. Labs

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

Duplicate I.D.: _____ Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

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

CHEVRON WELL MONITORING DATA SHEET

Project #: 781104-P4	Station #: 206145
Sampler: Pul	Date: 11-4-98
Well I.D.: MW-3	Well Diameter: <input checked="" type="radio"/> 2 3 4 6 8 ___
Total Well Depth: 14.25	Depth to Water: 9.82
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="radio"/> PVC Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius ² * 0.163

Purge Method: Bailer Sampling Method: Bailer

Disposable Bailer Disposable Bailer

Middleburg Extraction Port

Electric Submersible Other: _____

Extraction Pump

Other: _____

.75	x	3	=	2.25	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
15:15	67.0	6.8	1500	.75	
15:16	66.4	6.8	1500	1.5	
15:18	65.8	6.7	1400	2.25	

Did well dewater? Yes No Gallons actually evacuated: 2.25

Sampling Time: 15:24 Sampling Date: 11-4-98

Sample I.D.: MW-3 Laboratory: Sequoia CORE N. Creek Assoc. Labs

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

Duplicate I.D.: Analyzed for: TPH-G BTEX MTBE TPH-D Other:

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

CHEVRON WELL MONITORING DATA SHEET

Project #: <u>981104-P4</u>	Station #: <u>206145</u>
Sampler: <u>Pul</u>	Date: <u>11-4-98</u>
Well I.D.: <u>MW-6</u>	Well Diameter: <u>(2)</u> 3 4 6 8 <u> </u>
Total Well Depth: <u>19.70</u>	Depth to Water: <u>9.21</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
<u>3"</u>	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius ² * 0.163

Purge Method: Bailer
~~Disposable Bailer~~
 Middleburg
 Electric Submersible
 Extraction Pump
 Other: _____

Sampling Method: Bailer
~~Disposable Bailer~~
 Extraction Port
 Other: _____

<u>1.6</u>	x	<u>3</u>	=	<u>5.0</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
<u>14:57</u>	<u>67.2</u>	<u>6.5</u>	<u>400</u>	<u>1.5</u>	
<u>14:59</u>	<u>66.4</u>	<u>6.5</u>	<u>450</u>	<u>3.0</u>	
<u>15:02</u>	<u>66.2</u>	<u>6.5</u>	<u>500</u>	<u>5.0</u>	

Did well dewater? Yes No Gallons actually evacuated: 5.0

Sampling Time: 15:08 Sampling Date: 11-4-98

Sample I.D.: MW-6 Laboratory: Sequoia CORE N. Creek Assoc. Labs

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

Duplicate I.D.: _____ Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

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