Chevron

November 5, 1998

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 are amended pages to the Third Quarter Monitoring report for 1998 dated October 19, 1998, that was prepared by our consultant Blaine Tech Services, Inc. for the above noted facility. The amended pages show the CUB analytical results by using gasoline degraders and summarizes the bio-parameters on one sheet as additional analyses.

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. Anne Payne, Chevron, V-1156

Cc. 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

CytoCulture
ENVIRONMENTAL
BIOTECHNOLOGY
CytoCulture International, Inc. 1986

October 29, 1998

Client: Sequoia Analytical
Sequoia Workorder #:9810F55
Contact: Mike Gregory

CytoCulture Code: 98-82
Project Description/Code: Blaine/ 9810F55
Tel: 650-364-9600 **Fax:** 650-364-9233

SAMPLES: Six water samples were received on 10/22/98. The samples were assayed that day and stored at 4°C for any follow up work.

Hydrocarbon-Degrading Bacteria Enumeration Assays

ANALYSIS REQUEST: Bacterial enumeration for total petroleum hydrocarbon-degraders (gasoline) in soil.

CARBON SOURCE: Petroleum hydrocarbons were added as the sole carbon and energy sources for the growth of hydrocarbon-degrading aerobic bacteria on agar plates. Gasoline was dissolved into the agar to provide aliphatic and aromatic hydrocarbons in the growth matrix.

PROTOCOLS:

Hydrocarbon Degraders: Sterile agar plates (100 x 15 mm) were prepared with minimal salts medium at pH 6.8 with 1.5% noble agar, without any other carbon sources or nutrients added. Plates were inoculated with 1.0 ml of sample or a log dilution of each water sample. Triplicate plates were inoculated with sample log dilutions of 10^{0}, 10^{-1}, and 10^{-2}. The hydrocarbon plates were poured on 10/22/98 and counted after 7 days on 10/29/98. The plate count data are reported as colony forming units (**cfu**) per milliliter (ml) of sample. Each bacteria population value represents a statistical average of the plate count data obtained with inoculations for two of the four log dilutions tested.

Vox 510·233·0102 Fax 510·233·3777 Email: Cyto@CytoCulture.com
249 Tewksbury Avenue Point Richmond California 94801·3829 USA

Hydrocarbon-Degrading Bacteria Enumeration Results

CLIENT SAMPLE NUMBER	SAMPLE DATE	HYDROCARBON DEGRADERS (cfu/gm)
MW-1	10/21/98	4.7×10^2
MW-2	10/21/98	8.8×10^2
MW-3	10/21/98	6.0×10^1
MW-4	10/21/98	8.6×10^4
MW-6	10/21/98	1.8×10^3
MW-7	10/21/98	4.8×10^3

1.0×10^1 cfu/ml is the lowest detection level for this assay.

Bacterial enumerations were performed by Dr. Sean P. Bushart. CytoCulture is available on a consulting basis to assist in the interpretation of these data and their application to field remediation protocols.

Sean P. Bushart, Ph.D.
Laboratory Services

Randall von Wedel, Ph.D.
Principal, Director of Research

Sequoia Analytical

Subcontracted Microbiology Assays

performed by

CytoCulture Environmental Biotechnology

CHAIN OF CUSTODY FORM

Project Name: Blaine	Project No. 9810F55	Sequoia Purchase Order / LOG IN #: 9810F55
Sequoia Client Organization:		Sequoia Project Manager: MIKE GREGORY
Address to Send Results:		
Client Fax for Sending Data:		Client Contact / Project Manager:
Client Tel for Follow-up:		Client Sampler / Recorder:

Sample I.D. Indicate target Hydrocarbon range	Sampling Date	Sampling Time	Matrix Soil	Matrix Water	Analyses Requested: Hydrocarbon Degrading Bacteria Plate Count	Total Heterotrophic Bacteria Plate Count	pH	DO	NH_3	PO_4	NO_3	SO_4	Other Tests or Comments
MW-1	10/21/98	NA		X	X								
MW-2	↓	↓		↓	↓								
MW-3													
MW-4													
MW-6													
MW-7	↓	↓		↓	↓								

Chain of Custody Record	Signature of this form constitutes a firm Purchase Order for services.	**Payment DUE on Reporting Date.**
Relinquished by:	Date/Hr: 10/22/98	Received by: Date/Hr: 10/22/98 2:30
Received for CytoCulture Lab by:	Date/Hr:	CytoCulture Lab Services Tel: 510-233-0102 Fax: 510-233-3777 — Please fax Chain of Custody form to CytoCulture prior to delivery.

BLAINE
TECH SERVICES INC.

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

November 3, 1998

Mr. Phil Briggs
Chevron USA Products Company
P.O. Box 6004
San Ramon, CA 94583-0904

Re: Former Signal Service Station #206145 (S-800)

Dear Mr. Briggs,

Please find attached the amended pages to the 3rd Quarter 1998 sampling report 980903-H-1 for the site listed above. Please replace the existing pages with the amended pages. If you have any questions or comments, I can be reached at (408) 573-0555 ext. 206.

Sincerely,

Christine Lillie
Project Coordinator

Chevron

October 27, 1998

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 Third Quarter Groundwater Monitoring report for 1998 and dated October 19, 1998, that was prepared by our consultant Blaine Tech Services, Inc. for the above noted facility. Groundwater samples were analyzed for Contaminate Utilizing Bacteria (CUB) and the bio-parameters of Alkalinity, Ferrous Iron, Nitrate and Sulfate. Monitoring wells MW-1, MW-2, MW-3, MW-6 and MW-7 were sampled for all constituents while well MW-4 was only sampled for CUB. Well MW-5 was inaccessible and therefore, no sample was taken.

The previous sampling event, in which the CUB was determined, used hydrocarbon-degraders of diesel and jet fuel as the growth matrix. Since the area of the site was impacted with gasoline-based hydrocarbons an additional sampling event was requested for CUB. However, our consultant failed to specify on the chain of custody form that this analysis was to be run with gasoline-degraders and the lab used the standard analysis of diesel and jet fuel in this sampling event (copy of letter from consultant enclosed). When this error was discovered the consultant re-sampled the site last week and the results are expected within ten days. Note that the lab waits 7 days before they take a plate count of the bacteria.

The depth to ground water varied from 8.08 feet to 9.71 feet below grade with a direction of flow southwesterly.

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
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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

October 19, 1998

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

3rd Quarter 1998 Monitoring at 206145 (S-800)

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

Monitoring Performed on September 3, 1998

Sampling for Contaminate Utilizing Bacteria (CUB) performed on 10-21-98

Groundwater Sampling Report **980903-H-1**

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**.

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.

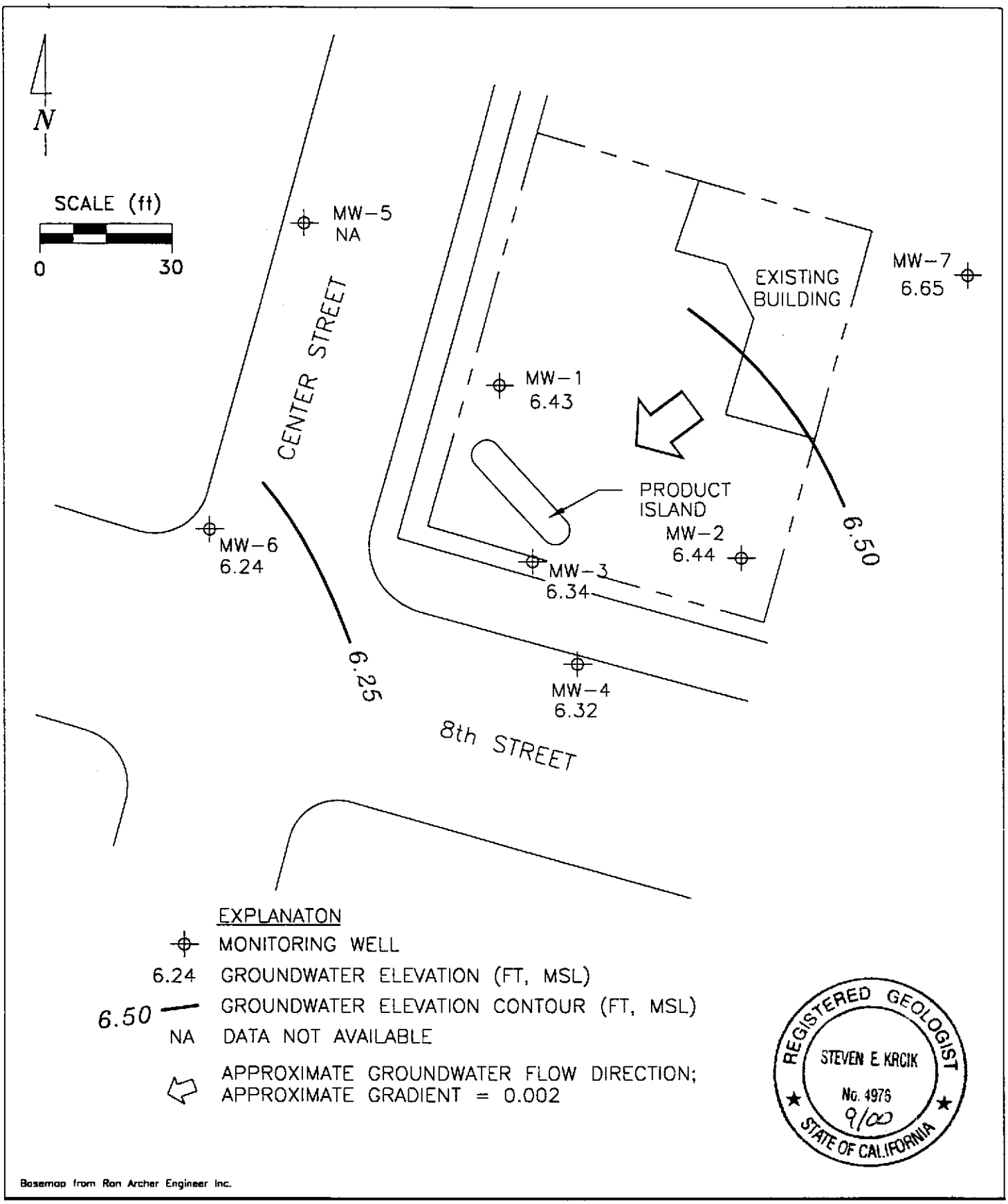
Yours truly,

Francis Thie
Vice President

FPT/dg

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

Professional Engineering Appendix



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, SEPTEMBER 3, 1998**	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	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	**	--	--	--	--	--	--	$<1.0 \times 10^1$
09/03/98	15.64	6.43	9.21	**/+	--	--	--	--	--	--	4.1×10^3
10/21/98	15.64	5.59	10.05	***	--	--	--	--	--	--	4.7×10^2
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	**	--	--	--	--	--	--	1.9×10^1
09/03/98	15.72	6.44	9.28	**/+	--	--	--	--	--	--	3.0×10^2
10/21/98	15.72	5.51	10.21	***	--	--	--	--	--	--	8.8×10^2

* 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	*	--	--	--	--	--	--	8.5×10^2
09/03/98	15.42	6.34	9.08	*/+	--	--	--	--	--	--	2.4×10^3
10/21/98	15.42	5.62	9.80	**	--	--	--	--	--	--	6.0×10^1
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	*	--	--	--	--	--	--	1.8×10^4
09/03/98	14.40	6.32	8.08	*/+	--	--	--	--	--	--	1.4×10^4
10/21/98	14.40	5.64	8.76	**	--	--	--	--	--	--	8.6×10^4

* 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	--	--	--	--	--	--	--
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	*	--	--	--	--	--	--	8.6×10^3
09/03/98	14.73	6.24	8.49	*/+	--	--	--	--	--	--	2.9×10^3
10/21/98	14.73	5.46	9.27	**	--	--	--	--	--	--	1.8×10^3

* 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	*	--	--	--	--	--	--	1.5×10^3
09/03/98	16.36	6.65	9.71	*/+	--	--	--	--	--	--	6.5×10^2
10/21/98	16.36	5.96	10.40	**	--	--	--	--	--	--	4.8×10^3

* 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	--

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 Baceria

Analytical Appendix

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Attention: Fran Thie

Client Proj. ID: Chevron 206145, 980903-H1

Lab Proj. ID: 9809546

Sampled: 09/03/98
Received: 09/04/98
Analyzed: see below

Reported: 09/23/98

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9809546-01				
Sample Desc : **LIQUID,MW-1**				
Alkalinity: Total	**mg CaCO3/L**	**09/15/98**	**40.0**	**230**
Bacti Count	**P/A**			**Attached**
Ferrous Iron	**mg/L**	**09/21/98**	**0.010**	**9.8**
Nitrate as Nitrate	mg/L	09/10/98	1.0	N.D.
Sulfate	**mg/L**	**09/10/98**	**1.0**	**6.1**
Lab No: 9809546-02				
Sample Desc : **LIQUID,MW-2**				
Alkalinity: Total	**mg CaCO3/L**	**09/15/98**	**40.0**	**390**
Bacti Count	**P/A**			**Attached**
Ferrous Iron	**mg/L**	**09/21/98**	**0.010**	**7.4**
Nitrate as Nitrate	mg/L	09/10/98	1.0	N.D.
Sulfate	**mg/L**	**09/10/98**	**1.0**	**21**
Lab No: 9809546-03				
Sample Desc : **LIQUID,MW-3**				
Alkalinity: Total	**mg CaCO3/L**	**09/15/98**	**40.0**	**830**
Bacti Count	**P/A**			**Attached**
Ferrous Iron	**mg/L**	**09/21/98**	**0.010**	**45**
Nitrate as Nitrate	mg/L	09/10/98	1.0	N.D.
Sulfate	**mg/L**	**09/10/98**	**1.0**	**10**
Lab No: 9809546-04				
Sample Desc : **LIQUID,MW-6**				
Alkalinity: Total	**mg CaCO3/L**	**09/15/98**	**40.0**	**94**
Bacti Count	**P/A**			**Attached**
Ferrous Iron	**mg/L**	**09/21/98**	**0.010**	**0.062**
Nitrate as Nitrate	**mg/L**	**09/10/98**	**1.0**	**28**
Sulfate	**mg/L**	**09/10/98**	**1.0**	**47**

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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Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Attention: Fran Thie

Client Proj. ID: Chevron 206145, 980903-H1

Lab Proj. ID: 9809546

Sampled: 09/03/98
Received: 09/04/98
Analyzed: see below

Reported: 09/23/98

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9809546-05				
Sample Desc : **LIQUID,MW-7**				
Alkalinity: Total	**mg CaCO3/L**	**09/15/98**	**40.0**	**170**
Bacti Count	**P/A**			**Attached**
Ferrous Iron	**mg/L**	**09/21/98**	**0.010**	**0.12**
Nitrate as Nitrate	**mg/L**	**09/10/98**	**1.0**	**7.8**
Sulfate	**mg/L**	**09/10/98**	**1.0**	**57**
Lab No: 9809546-06				
Sample Desc : **LIQUID,MW-4**				
Bacti Count	**P/A**			**Attached**

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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Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112
Attention: Fran Thie

Client Proj. ID: Chevron 206145, 980903-H1

Lab Proj. ID: 9809546

Received: 09/04/98

Reported: 09/23/98

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 10 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

Sequoia Analytical

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Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112
Attention: Fran Thie

Client Project ID: Chevron 206145, 980903-H1

QC Sample Group: 9809546-01-05

Reported: Sep 23, 1998

QUALITY CONTROL DATA REPORT

Matrix:	Liquid						
Method:	EPA 300.0						
Analyst:	G. Fish						
ANALYTE	Fluoride	Chloride	Nitrite	Bromide	Nitrate	Phosphate	Sulfate
QC Batch #:	0910983000ACB						
Sample No.:	9809512-2						
Date Prepared:	9/10/98	9/10/98	9/10/98	9/10/98	9/10/98	9/10/98	9/10/98
Date Analyzed:	9/10/98	9/10/98	9/10/98	9/10/98	9/10/98	9/10/98	9/10/98
Instrument I.D.#:	INAC1	INAC1	INAC1	INAC1	INAC1	INAC1	INAC1
Sample Conc., mg/L:	N.D.	39	N.D.	N.D.	N.D.	N.D.	80
Conc. Spiked, mg/L:	100	100	100	100	100	100	100
Matrix Spike, mg/L:	100	130	94	91	93	77	190
% Recovery:	100	91	94	91	93	77	110
Matrix Spike Duplicate, mg/L:	110	140	98	95	97	83	190
% Recovery:	110	101	98	95	97	83	110
Relative % Difference:	9.5	10	4.2	4.3	4.2	7.5	0.0
RPD Control Limits:							

LCS Batch#:	LCS0910983000ACB						
Date Prepared:	9/10/98	9/10/98	9/10/98	9/10/98	9/10/98	9/10/98	9/10/98
Date Analyzed:	9/10/98	9/10/98	9/10/98	9/10/98	9/10/98	9/10/98	9/10/98
Instrument I.D.#:	INAC1	INAC1	INAC1	INAC1	INAC1	INAC1	INAC1
Conc. Spiked, mg/L:	10	10	10	10	10	10	10
LCS Recovery, mg/L:	10	9.2	9.7	9.1	9.3	9.1	9.4
LCS % Recovery:	100	92	97	91	93	91	94

Percent Recovery Control Limits:

MS/MSD	75-125	75-125	75-125	75-125	75-125	75-125	75-125
LCS	90-110	90-110	90-110	90-110	90-110	90-110	90-110

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

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.

Sequoia Analytical

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Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112
Attention: Fran Thie

Client Project ID: Chevron 206145, 980903-H1

QC Sample Group: 9809546-01-05

Reported: Sep 23, 1998

QUALITY CONTROL DATA REPORT

Matrix:	Liquid
Method:	EPA 310.2
Analyst:	K. Cesar
ANALYTE	Alkalinity

QC Batch #: IN0915983102FIA

Sample No.:	9809546-1
Date Prepared:	9/15/98
Date Analyzed:	9/15/98
Instrument I.D.#:	FIA
Sample Conc., mg/L:	230
Conc. Spiked, mg/L:	100
Matrix Spike, mg/L:	340
% Recovery:	110
Matrix Spike Duplicate, mg/L:	340
% Recovery:	110
Relative % Difference:	0.0
RPD Control Limits:	0-20

LCS Batch#:	LCS091598
Date Prepared:	9/15/98
Date Analyzed:	9/15/98
Instrument I.D.#:	FIA
Conc. Spiked, mg/L:	200
LCS Recovery, mg/L:	220
LCS % Recovery:	111

Percent Recovery Control Limits:

MS/MSD	75-125
LCS	80-120

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

Please Note:
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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, 980903-H1
Matrix: Liquid
Work Order #: 9809546 -01-05

Reported: Sep 24, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME0921986010M2A	ME0921986010M2A	ME0921986010M2A	ME0921986010M2A
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3010	EPA 3010	EPA 3010	EPA 3010
Analyst:	C. Caoile	C. Caoile	C. Caoile	C. Caoile
MS/MSD #:	9809B1303	9809B1303	9809B1303	9809B1303
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	9/21/98	9/21/98	9/21/98	9/21/98
Analyzed Date:	9/21/98	9/21/98	9/21/98	9/21/98
Instrument I.D.#:	MTJA5	MTJA5	MTJA5	MTJA5
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L
Result:	1.1	0.88	0.96	0.95
MS % Recovery:	110	88	96	95
Dup. Result:	1.0	0.89	0.96	0.95
MSD % Recov.:	100	89	96	95
RPD:	9.5	1.1	0.0	0.0
RPD Limit:	0-20	0-20	0-20	0-20

LCS #:	CCVMI090998	CCVMI090998	CCVMI090998	CCVMI090998
Prepared Date:	9/9/98	9/9/98	9/9/98	9/9/98
Analyzed Date:	9/9/98	9/9/98	9/9/98	9/9/98
Instrument I.D.#:	MTJA5	MTJA5	MTJA5	MTJA5
Conc. Spiked:	5.0 mg/L	5.0 mg/L	5.0 mg/L	5.0 mg/L
LCS Result:	5.0	5.1	5.1	5.3
LCS % Recov.:	100	102	102	106

MS/MSD	80-120	80-120	80-120	80-120
LCS	80-120	80-120	80-120	80-120
Control Limits				

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

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

Field
Data
Sheets

CHEVRON WELL MONITORING DATA SHEET

Project #: 980903 - H1	Station #: 206145
Sampler: MH	Date: 9/3/98
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 13.47	Depth to Water: 9.21
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
- X Disposable Bailer
- Middleburg
- Electric Submersible
- Extraction Pump
- Other: _____

Sampling Method:
- Bailer
- X Disposable Bailer
- Extraction Port
- Other: _____

0.7 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 2.1 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1603	68.9	6.3	458	1	Odor
1605	69.3	6.4	471	2	↓
1607	69.4	6.5	493	3	↓

Did well dewater?	Yes (No)		Gallons actually evacuated: 3		
Sampling Time: 1610			Sampling Date: 9/3		
Sample I.D.: MW-1			Laboratory: (Sequoia) GTEL N. Creek Assoc. Labs		
Analyzed for: TPH-G BTEX MTBE TPH-D			Other: Nitrate, Ferrous Iron, Contaminate Hydrocarbon, Alkalinity, Sulfide		
Duplicate I.D.:		Analyzed for: TPH-G BTEX MTBE TPH-D		Other:	
D.O. (if req'd):	Pre-purge:	2.3 mg/L	Post-purge:	1.6	mg/L
O.R.P. (if req'd):	Pre-purge:	-90 mV	Post-purge:	-103	mV

CHEVRON WELL MONITORING DATA SHEET

Project #: 980903 - H1	Station #: 206145
Sampler: MH	Date: 9/3/98
Well I.D.: MW-2	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 13.29	Depth to Water: 9.28
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
- X Disposable Bailer
- Middleburg
- Electric Submersible
- Extraction Pump
- Other: _____

Sampling Method:
- Bailer
- X Disposable Bailer
- Extraction Port
- Other: _____

0.6 (1 Case Volume (Gals.)) X 5 (Specified Volumes) = 1.8 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1458	71.2	6.6	819	1	
1502	70.4	6.7	851	1.5	
1502	70.6	6.7	853	2	

Did well dewater? Yes (No) Gallons actually evacuated: 2

Sampling Time: 1507 Sampling Date: 9/3

Sample I.D.: MW-2 Laboratory: (Sequoia) GTEL N. Creek Assoc. Labs

Analyzed for: TPH-G BTEX MTBE TPH-D Other: Nitrate, Ferrous Iron Contaminate Hydrocarbons, Alkalinity / Sulfate

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

D.O. (if req'd):	Pre-purge:	2.8 mg/L	Post-purge:	2.5 mg/L
O.R.P. (if req'd):	Pre-purge:	-206 mV	Post-purge:	-163 mV

CHEVRON WELL MONITORING DATA SHEET

Project #: 980403-H1	Station #: 206145
Sampler: MH	Date: 9/3/98
Well I.D.: MW-3	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 14.26	Depth to Water: 9.08
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
- x Disposable Bailer
- Middleburg
- Electric Submersible
- Extraction Pump
- Other: ___

Sampling Method:
- Bailer
- x Disposable Bailer
- Extraction Port
- Other: ___

0.8 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 2.4 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1551	70.7	6.7	1415	1	Odor
1553	69.4	6.8	1312	2	↓
1555	69.3	6.8	1307	3	↓

Did well dewater? Yes (No)		Gallons actually evacuated: 3	
Sampling Time: 1558		Sampling Date: 9/3	
Sample I.D.: MW-3		Laboratory: (Sequoia) GTEL N. Creek Assoc. Labs	
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:	Nitrate, Ferrous Iron, Contaminate Hydrocarbon, Alkalinity, Sulfate	
Duplicate I.D.:	Analyzed for: TPH-G BTEX MTBE TPH-D	Other:	
D.O. (if req'd):	Pre-purge: 3.1 mg/L	Post-purge: 0.7	mg/L
O.R.P. (if req'd):	Pre-purge: -124 mV	Post-purge: -99	mV

CHEVRON WELL MONITORING DATA SHEET

Project #: 980903-H1	Station #: 206145
Sampler: MH	Date: 9/3/98
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 13.43	Depth to Water: 8.08
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
- X Disposable Bailer
- Middleburg
- Electric Submersible
- Extraction Pump
- Other: ___

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

0.9 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 2.7 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1514	72.5	6.6	737	1	Black Color
1516	71.9	6.5	741	2	
1518	71.7	6.5	740	3	

Did well dewater? Yes (No) Gallons actually evacuated: 3

Sampling Time: 1520 Sampling Date: 9/3

Sample I.D.: MW-4 Laboratory: (Sequoia) GTEL N. Creek Assoc. Labs

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

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

D.O. (if req'd):	Pre-purge:	2.6 mg/L	Post-purge:	1.1 mg/L	
O.R.P. (if req'd):	Pre-purge:	-190 mV	Post-purge:	-206 mV	

CHEVRON WELL MONITORING DATA SHEET

Project #: 980903-H1	Station #: 206145
Sampler: MH	Date: 9/3/98
Well I.D.: MW-6	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 19.68	Depth to Water: 8.49
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
- X Disposable Bailer
- Middleburg
- Electric Submersible
- Extraction Pump
- Other: ___

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

1.8 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 5.4 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1531	73.1	6.4	390	2	
1534	72.4	6.5	487	4	
1539	72.3	6.5	491	6	

Did well dewater? Yes (No)		Gallons actually evacuated: 6	
Sampling Time: 1545		Sampling Date: 9/3	
Sample I.D.: MW-6		Laboratory: (Sequoia) GTEL N. Creek Assoc. Labs	
Analyzed for: TPH-G BTEX MTBE TPH-D		Other: Nitrate, Ferrous Iron Contaminate Hydrocarbons, Alkalinity, Sulfate	
Duplicate I.D.:	Analyzed for: TPH-G BTEX MTBE TPH-D	Other:	
D.O. (if req'd):	Pre-purge: 2.6 mg/L	Post-purge: 3.2	mg/L
O.R.P. (if req'd):	Pre-purge: +48 mV	Post-purge: -167	mV

CHEVRON WELL MONITORING DATA SHEET

Project #: 980903-H1	Station #: 206145
Sampler: MH	Date: 9/3/98
Well I.D.: MW-7	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 18.31	Depth to Water: 9.71
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
- X Disposable Bailer
- Middleburg
- Electric Submersible
- Extraction Pump
- Other: _____

Sampling Method:
- Bailer
- X Disposable Bailer
- Extraction Port
- Other: _____

1.4 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 4.2 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1431	72.2	7.3	574	1.5	
1434	71.6	7.2	518	3.0	
1439	71.4	7.2	523	4.5	

Did well dewater? Yes (No)		Gallons actually evacuated: 4.5	
Sampling Time: 1445		Sampling Date: 9/3	
Sample I.D.: MW-7		Laboratory: (Sequoia) GTEL N. Creek Assoc. Labs	
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: Contaminate Hydrocarbon, Alkalinity, Sulfate, Nitrate, Ferrous Iron		
Duplicate I.D.:	Analyzed for: TPH-G BTEX MTBE TPH-D	Other:	
D.O. (if req'd):	Pre-purge: 2.7 mg/L	Post-purge: 3.2	mg/L
O.R.P. (if req'd):	Pre-purge: -207 mV	Post-purge: -229	mV