Chevron

#541

Chevron U.S.A. Products Company
6001 Bollinger Canyon Rd. Bldg. L
P. O. Box 6004
San Ramon, CA 94583-0804

Site Assessment and
Remediation Group
Phone (510) 842-9500
Fax (510) 842-8370

Date: 1-17-00

To: Distribution

Re: Groundwater Monitoring Report, 9-1851

The enclosed groundwater monitoring report has been properly reviewed by a Chevron authorized representative. Agency guidelines have been followed. Blaine Tech Services is authorized to distribute the report directly to interested parties.

If you have any questions, please call me at (510) 842-8695.

Sincerely,

Brett L. Hunter

Brett Hunter
Site Assessment and Remediation
Project Manager

BLAINE
TECH SERVICES inc.

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

January 17, 2000

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

4th Quarter 1999 Monitoring at 9-1851

Fourth Quarter 1999 Groundwater Monitoring at
Chevron Service Station Number 9-1851
451 Hegenberger Rd.
Oakland, CA

Monitoring Performed on December 8, 1999

Groundwater Sampling Report **991208-Y-3**

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,

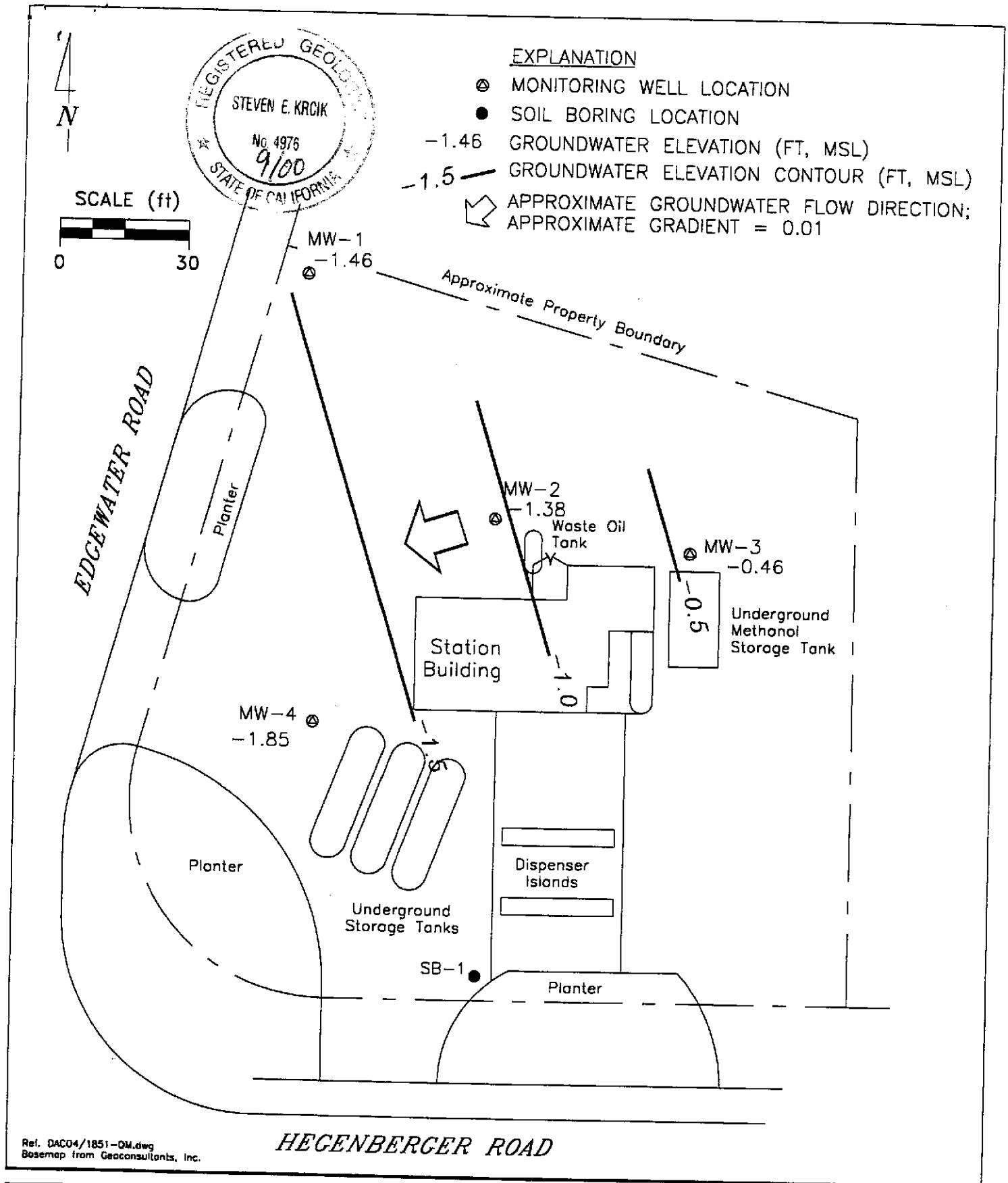
Scott Boor
Project Coordinator

SDB/jh

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

cc: **Barney Chan, Alameda County Health Care Services, Dept. of Environmental Health**
Ben Shimek
Greg Gurss, Gettler-Ryan, Inc.

Professional Engineering Appendix



PREPARED BY

RRM
engineering contracting firm

Chevron Station 9-1851
451 Hegenberger Road
Oakland, California

GROUNDWATER ELEVATION CONTOUR MAP, DECEMBER 8, 1999

FIGURE:
7
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	TOG	TPH-Diesel	Benzene by (EPA 8240)	Xylene by (EPA 8240)	C-1,2-DCE	Carbon Disulfide	Vinyl Chloride	MTBE
MW-1																	
10/17/95	2.61	-1.51	4.12	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
03/29/96	2.61	-0.72	3.33	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	9.5
06/26/96	2.61	-1.23	3.84	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	46
09/25/96	2.61	-1.41	4.02	--	<250	<2.5	<2.5	<2.5	<2.5	--	--	--	--	--	--	--	940
12/17/96	2.61	-0.96	3.57	--	<50	0.86	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	260
03/20/97	2.61	-1.54	4.15	--	<50	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	--	--	76
06/20/97	2.61	-1.72	4.33	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	64
09/09/97	2.61	-1.74	4.35	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	110
12/12/97	2.61	-0.39	3.00	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	27
02/19/98	2.61	0.78	1.83	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	14
06/23/98	2.61	-0.73	3.34	*	210	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	3400
08/31/98	2.61	-0.88	3.49	*	1400	630	<5.0	<5.0	<5.0	--	--	--	--	--	--	--	16,000
12/29/98	2.61	-1.22	3.83	--	<500	<5.0	<5.0	<5.0	<5.0	--	--	--	--	--	--	--	1090
03/11/99	2.61	-0.43	3.04	*	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	33.9
06/24/99	2.61	-0.77	3.38	*	<500	65.7	<5.0	<5.0	<5.0	--	--	--	--	--	--	--	1160
09/29/99	2.61	-1.01	3.62	--	81.7	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	1130
12/08/99	2.61	-1.46	4.07	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	233

* 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	TOG	TPH-Diesel	Benzene by (EPA 8240)	Xylene by (EPA 8240)	C-1,2-DCE	Carbon Disulfide	Vinyl Chloride	MTBE
MW-2																	
10/17/95	3.51	-1.82	5.33	*	170	3.5	<0.5	1.0	6.1	5000	600**	--	--	11	--	--	--
03/29/96	3.51	-0.44	3.95	--	89	4.7	<0.5	0.64	0.74	--	000**	11	2.5	17	--	5.4	21
06/26/96	3.51	-1.09	4.60	--	80	8.7	<0.5	1.2	1.3	--	000**	11	<2.0	15	--	12	31
09/25/96	3.51	--	--	Inaccessible	--	--	--	--	--	--	--	--	--	--	--	--	--
12/17/96	3.51	-0.41	3.92	--	110	<0.5	<0.5	0.75	2.1	--	400**	10	<2.0	2.3	--	5.5	27
03/20/97	3.51	-1.32	4.83	--	140	8.2	<2.0	<2.0	<2.0	--	400**	--	--	<2.0	--	3.2	58
06/20/97	3.51	-1.53	5.04	--	62	7.7	<0.5	<0.5	<0.5	--	600**	7.2	<2.0	4.6	2.2	5.2	38
09/09/97	3.51	-1.47	4.98	--	190	9.4	<0.5	<0.5	0.86	--	82**	11	<2.0	<2.0	<2.0	<2.0	48
12/12/97	3.51	-0.40	3.91	--	180	1.8	<0.5	<0.5	3.2	--	500**	<2.0	<2.0	<2.0	<2.0	<2.0	34
02/19/98	3.51	0.55	2.96	--	<100	1.8	<1.0	<1.0	<1.0	--	800**	<3.3	<3.3	<3.3	<3.3	<3.3	230
06/23/98	3.51	-0.54	4.05	***	60	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	55
08/31/98	3.51	-0.80	4.31	--	61	2.2	<0.5	<0.5	1.1	--	--	--	--	--	--	--	53
12/29/98	3.51	-1.12	4.63	--	54	1.32	<0.5	<0.5	0.752	--	--	--	--	--	--	--	38.1
03/11/99	3.51	-0.01	3.52	***	648	2.88	<2.0	<2.0	<2.0	--	--	--	--	--	--	--	73.2
06/24/99	3.51	-0.49	4.00	***	264	0.575	<0.5	1.01	<0.5	--	--	--	--	--	--	--	44.1
09/29/99	3.51	-0.93	4.44	--	54.3	0.662	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	35.7
12/08/99	3.51	-1.38	4.89	--	<50	1.27	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	56.9

* Results of EPA 8010 test indicates that the detection of 1,1-Dichloroethane is 1.7 ppb.
** Chromatogram pattern indicates an unidentified hydrocarbon.
*** 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	TOG	TPH-Diesel	Benzene (EPA 8240)	Xylene (EPA 8240)	C-1,2-DCE	Carbon Disulfide	Vinyl Chloride	MTBE
MW-3																	
10/17/95	3.08	-1.34	4.42	***	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
03/29/96	3.08	0.08	3.00	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	26
06/26/96	3.08	-0.52	3.60	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	47
09/25/96	3.08	-1.06	4.14	--	<125	<1.2	<1.2	<1.2	<1.2	--	--	--	--	--	--	--	570
12/17/96	3.08	-0.12	3.20	--	<500	<5.0	<5.0	<5.0	<5.0	--	--	--	--	--	--	--	680
03/20/97	3.08	-0.22	3.30	--	<50	<5.7	<5.7	<5.7	<5.7	--	--	--	--	--	--	--	430
06/20/97	3.08	-0.78	3.86	--	<500	<5.0	<5.0	<5.0	<5.0	--	--	--	--	--	--	--	1400
09/09/97	3.08	-1.11	4.19	--	76**	22	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	920
12/12/97	3.08	0.12	2.96	--	52	15	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	710
02/19/98	3.08	0.86	2.22	--	<50	6.6	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	380
06/23/98	3.08	-0.17	3.25	*	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	390
08/31/98	3.08	-0.78	3.86	--	<50	19	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	830
12/29/98	3.08	-0.45	3.53	--	<250	<2.5	<2.5	<2.5	<2.5	--	--	--	--	--	--	--	416
03/11/99	3.08	-0.27	3.35	*	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	262
06/24/99	3.08	-0.53	3.61	*	<50	12.8	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	620
09/29/99	3.08	-0.87	3.95	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	2840
12/08/99	3.08	-0.46	3.54	--	73.4	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	1620

How did MTBE get here?

* See Table of Additional Analyses

** Chromatogram pattern indicates an unidentified hydrocarbon.

*** Results of EPA 8015 test indicates that levels of Methanol and Methyl ethyl ketone are respectively <1000 and <200 ppb.

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	TOG	TPH-Diesel	Benzene (EPA 8240)	Xylene (EPA 8240)	C-1,2-DCE	Carbon Disulfide	Vinyl Chloride	MTBE
MW-4																	
10/17/95	3.48	-1.60	5.08	--	<125	<1.2	<1.2	<1.2	<1.2	--	--	--	--	--	--	--	--
03/29/96	3.48	-1.13	4.61	--	<1000	<10	<10	<10	<10	--	--	--	--	--	--	--	6700
06/26/96	3.48	-0.82	4.30	--	<2000	<20	<20	<20	<20	--	--	--	--	--	--	--	7200
09/25/96	3.48	-1.85	5.33	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	<2.5
12/17/96	3.48	0.67	2.81	--	<2000	120	<20	<20	<20	--	--	--	--	--	--	--	11,000
03/20/97	3.48	-1.02	4.50	--	250**	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	--	--	10,000
03/20/97	3.48	-1.02	4.50	Conf. run	--	--	--	--	--	--	--	--	--	--	--	--	8600
06/20/97	3.48	-2.20	5.68	--	<2500	<25	<25	<25	<25	--	--	--	--	--	--	--	9300
09/09/97	3.48	-2.02	5.50	--	460**	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	6600
12/12/97	3.48	-1.55	5.03	--	430**	120	<2.5	<2.5	<2.5	--	--	--	--	--	--	--	7800
02/19/98	3.48	0.13	3.35	--	510**	130	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	6600
06/23/98	3.48	-1.50	4.98	*	550**	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	6800
08/31/98	3.48	-1.94	5.42	--	<500	450	<5.0	<5.0	<5.0	--	--	--	--	--	--	--	14,000
12/29/98	3.48	-1.58	5.06	--	<5000	<50	<50	<50	<50	--	--	--	--	--	--	--	16,100
03/11/99	3.48	-0.30	3.78	*	979	<5.0	<5.0	<5.0	<5.0	--	--	--	--	--	--	--	15,100
06/24/99	3.48	-0.83	4.31	*	<2500	715	<25	<25	<25	--	--	--	--	--	--	--	12,400
09/29/99	3.48	-2.10	5.58	--	1380	<5.0	<5.0	<5.0	<5.0	--	--	--	--	--	--	--	11,700
12/08/99	3.48	-1.85	5.33	--	318	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	11,100

* See Table of Additional Analyses
** 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	TOG	TPH-Diesel	Benzene (EPA 8240)	Xylene (EPA 8240)	C-1,2-DCE	Carbon Disulfide	Vinyl Chloride	MTBE
TRIP BLANK																	
10/17/95																	
03/29/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
06/26/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	<2.5
09/25/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	<2.5
12/17/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	<2.5
03/20/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	<2.5
06/20/97	--	--	--	--	<50	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	--	--	--
09/09/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	<2.5
12/12/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	<2.5
02/19/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	<2.5
06/23/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	<2.5
08/31/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	<2.5
12/29/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	<2.0
03/11/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	<5.0
06/24/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	<5.0
09/29/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	<2.5
12/08/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	<5.0

ADDITIONAL ANALYSES

Analytical values are in parts per billion (ppb)

DATE	Notes	Ethanol	t-Butanol	MTBE	DIPE	ETBE	TAME
MW-1							
06/23/98	--	<50,000	<10,000	4500	<200	<200	<200
08/31/98	--	--	--	17,000	--	--	--
03/11/99	--	--	--	54.1	--	--	--
06/24/99	--	<10,000	<2000	1800	<20	<20	258
MW-2							
06/23/98	--	<500	<100	56	<2.0	<2.0	<2.0
03/11/99	--	--	--	101	--	--	--
06/24/99	--	<1000	<200	52.5	<2.0	<2.0	<2.0
MW-3							
06/23/98	--	<5000	<1000	420	<20	<20	26
03/11/99	--	--	--	580	--	--	--
06/24/99	--	<6670	<1330	900	<13.3	<13.3	<13.3
MW-4							
06/23/98	--	<50,000	<10,000	11,000	<200	<200	860
03/11/99	--	--	--	17,600	--	--	--
06/24/99	--	<125,000	<25,000	17,000	<250	<250	2600
				vs 12,400 on p.4.			
TRIP BLANK							
03/11/99	--	--	--	<2.0	--	--	--

Note: Blaine Tech Services, Inc. began routine monitoring of the groundwater wells at this site on March 29, 1996. Earlier field data and analytical results are drawn from the December 29, 1995 Gettler-Ryan, Inc. report.

ABBREVIATIONS:
TPH = Total Petroleum Hydrocarbons
ND = Not detected at or above the minimum quantitation limit. See laboratory reports for minimum quantitation limits.
TOG = Total Oil Grease
MTBE = Methyl t-butyl Ether
DIPE = Di-Isopropl Ether
ETBE = Ethyl t-Butyl Ether
TAME = t-Amyl Methyl Ether
C-1,2 DCE = Cis-1,2-Dichloroethylene
Conf. run = Confirmation run

Analytical Appendix

Sequoia Analytical

1551 Industrial Road
San Carlos, CA 94070-4111
(650) 232-9600
FAX (650) 232-9612

December 27, 1999

Scott Boor
Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

RE: Chevron(3)/L912100

Dear Scott Boor:

Enclosed are the results of analyses for sample(s) received by the laboratory on December 10, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wayne Stevenson
Project Manager

CA ELAP Certificate Number I-2360

Sequoia Analytical

1551 Industrial Road
San Carlos, CA 94070-4111
(650) 232-9600
FAX (650) 232-9612

Blaine Tech Services	Project:	Blaine/Chevron	Sampled: 12/8/99
1680 Rogers Avenue	Project Number:	Chevron 9-1851/451 Hegenberger, Oakland	Received: 12/10/99
San Jose, CA 95112	Project Manager:	Scott Boor	Reported: 12/27/99

ANALYTICAL REPORT FOR L912100

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-1	L912100-01	Water	12/8/99
MW-2	L912100-02	Water	12/8/99
MW-3	L912100-03	Water	12/8/99
MW-4	L912100-04	Water	12/8/99
TB	L912100-05	Water	12/8/99

Sequoia Analytical

1551 Industrial Road
San Carlos, CA 94070-4111
(650) 232-9600
FAX (650) 232-9612

Blaine Tech Services	Project:	Blaine/Chevron	Sampled: 12/8/99
1680 Rogers Avenue	Project Number:	Chevron 9-1851/451 Hegenberger, Oakland	Received: 12/10/99
San Jose, CA 95112	Project Manager:	Scott Boor	Reported: 12/27/99

Sample Description: **MW-1**
Laboratory Sample Number: **L912100-01**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9120071	12/15/99	12/15/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	**233**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*91.6*	*%*	

Sequoia Analytical

1551 Industrial Road
San Carlos, CA 94070-4111
(650) 232-9600
FAX (650) 232-9612

Blaine Tech Services	Project:	Blaine/Chevron	Sampled: 12/8/99
1680 Rogers Avenue	Project Number:	Chevron 9-1851/451 Hegenberger, Oakland	Received: 12/10/99
San Jose, CA 95112	Project Manager:	Scott Boor	Reported: 12/27/99

Sample Description: **MW-2**
Laboratory Sample Number: **L912100-02**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
			Sequoia Analytical - San Carlos					
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9120076	12/16/99	12/16/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	**1.27**	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	**56.9**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*72.5*	*%*	

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Blaine Tech Services	Project:	Blaine/Chevron	Sampled: 12/8/99
1680 Rogers Avenue	Project Number:	Chevron 9-1851/451 Hegenberger, Oakland	Received: 12/10/99
San Jose, CA 95112	Project Manager:	Scott Boor	Reported: 12/27/99

Sample Description: **MW-3**
Laboratory Sample Number: **L912100-03**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9120071	12/15/99	12/15/99		50.0	**73.4**	ug/l	1
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		100	**1620**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*96.7*	*%*	

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Blaine Tech Services	Project:	Blaine/Chevron	Sampled: 12/8/99
1680 Rogers Avenue	Project Number:	Chevron 9-1851/451 Hegenberger, Oakland	Received: 12/10/99
San Jose, CA 95112	Project Manager:	Scott Boor	Reported: 12/27/99

Sample Description: **MW-4**
Laboratory Sample Number: **L912100-04**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9120071	12/15/99	12/15/99		50.0	**318**	ug/l	1
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		500	**11100**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*117*	*%*	

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Blaine Tech Services	Project:	Blaine/Chevron	Sampled:	12/8/99
1680 Rogers Avenue	Project Number:	Chevron 9-1851/451 Hegenberger, Oakland	Received:	12/10/99
San Jose, CA 95112	Project Manager:	Scott Boor	Reported:	12/27/99

Sample Description: **TB**
Laboratory Sample Number: **L912100-05**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9120071	12/15/99	12/15/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*85.6*	%	

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Blaine Tech Services	Project:	Blaine/Chevron	Sampled: 12/8/99
1680 Rogers Avenue	Project Number:	Chevron 9-1851/451 Hegenberger, Oakland	Received: 12/10/99
San Jose, CA 95112	Project Manager:	Scott Boor	Reported: 12/27/99

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9120071	**Date Prepared: 12/15/99**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**9120071-BLK1**									
Purgeable Hydrocarbons as Gasoline	12/15/99			**ND**	ug/l	**50.0**				
Benzene	"			**ND**	"	**0.500**				
Toluene	"			**ND**	"	**0.500**				
Ethylbenzene	"			**ND**	"	**0.500**				
Xylenes (total)	"			**ND**	"	**0.500**				
Methyl tert-butyl ether	"			**ND**	"	**5.00**				
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.71*	"	*70.0-130*	*97.1*			
LCS	**9120071-BS1**									
Benzene	12/15/99	10.0		8.33	ug/l	70.0-130	83.3			
Toluene	"	10.0		7.97	"	70.0-130	79.7			
Ethylbenzene	"	10.0		7.85	"	70.0-130	78.5			
Xylenes (total)	"	30.0		24.0	"	70.0-130	80.0			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.69*	"	*70.0-130*	*96.9*			
LCS	**9120071-BS3**									
Purgeable Hydrocarbons as Gasoline	12/15/99	250		271	ug/l	70.0-130	108			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*13.9*	"	*70.0-130*	*139*			*2*
Matrix Spike	**9120071-MS1**		**L912075-04**							
Benzene	12/15/99	10.0	ND	9.74	ug/l	60.0-140	**97.4**			
Toluene	"	10.0	ND	9.36	"	60.0-140	**93.6**			
Ethylbenzene	"	10.0	ND	9.27	"	60.0-140	**92.7**			
Xylenes (total)	"	30.0	ND	28.0	"	60.0-140	**93.3**			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*10.5*	"	*70.0-130*	*105*			
Matrix Spike Dup	**9120071-MSD1**		**L912075-04**							
Benzene	12/15/99	10.0	ND	9.60	ug/l	60.0-140	**96.0**	25.0	**1.45**	
Toluene	"	10.0	ND	9.56	"	60.0-140	**95.6**	25.0	**2.11**	
Ethylbenzene	"	10.0	ND	9.25	"	60.0-140	**92.5**	25.0	**0.216**	
Xylenes (total)	"	30.0	ND	27.9	"	60.0-140	**93.0**	25.0	**0.322**	
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.11*	"	*70.0-130*	*91.1*			
Batch: 9120076	**Date Prepared: 12/16/99**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**9120076-BLK1**									
Purgeable Hydrocarbons as Gasoline	12/16/99			**ND**	ug/l	**50.0**				
Benzene	"			**ND**	"	**0.500**				
Toluene	"			**ND**	"	**0.500**				
Ethylbenzene	"			**ND**	"	**0.500**				
Xylenes (total)	"			**ND**	"	**0.500**				

Sequoia Analytical

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FAX (650) 232-9612

Blaine Tech Services	Project:	Blaine/Chevron	Sampled: 12/8/99
1680 Rogers Avenue	Project Number:	Chevron 9-1851/451 Hegenberger, Oakland	Received: 12/10/99
San Jose, CA 95112	Project Manager:	Scott Boor	Reported: 12/27/99

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Blank (continued)	**9120076-BLK1**									
Methyl tert-butyl ether	12/16/99			**ND**	ug/l	**5.00**				
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.85*	"	*70.0-130*	*98.5*			
LCS	**9120076-BS1**									
Benzene	12/16/99	10.0		8.28	ug/l	70.0-130	82.8			
Toluene	"	10.0		8.24	"	70.0-130	82.4			
Ethylbenzene	"	10.0		8.43	"	70.0-130	84.3			
Xylenes (total)	"	30.0		25.4	"	70.0-130	84.7			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*10.6*	"	*70.0-130*	*106*			
LCS	**9120076-BS2**									
Purgeable Hydrocarbons as Gasoline	12/16/99	250		284	ug/l	70.0-130	114			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.37*	"	*70.0-130*	*93.7*			
Matrix Spike	**9120076-MS1**		**L912089-01**							
Purgeable Hydrocarbons as Gasoline	12/16/99	250	ND	279	ug/l	60.0-140	**112**			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.52*	"	*70.0-130*	*95.2*			
Matrix Spike Dup	**9120076-MSD1**		**L912089-01**							
Purgeable Hydrocarbons as Gasoline	12/16/99	250	ND	278	ug/l	60.0-140	**111**	25.0	**0.897**	
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.49*	"	*70.0-130*	*94.9*			

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Blaine Tech Services	Project:	Blaine/Chevron	Sampled:	12/8/99
1680 Rogers Avenue	Project Number:	Chevron 9-1851/451 Hegenberger, Oakland	Received:	12/10/99
San Jose, CA 95112	Project Manager:	Scott Boor	Reported:	12/27/99

Notes and Definitions

#	Note
1	Chromatogram Pattern: Unidentified Hydrocarbons C6-C12
2	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference

Fax copy of Lab Report and COC to Chevron Contact: ☐ Yes ☐ No

Chain-of-Custody-Record

Chevron Products Co.
P.O. BOX 6004
San Ramon, CA 94583
FAX (925)842-8370

Chevron Facility Number 9-1851 L712 100
Facility Address 451 Hegenberger Rd., Oakland
Consultant Project Number 991208-Y3
Consultant Name Blaine Tech Services, Inc.
Address 1680 Rogers Ave., San Jose
Project Contact (Name) Scott Boor
(Phone) 408-573-0555 (Fax) 408-573-7771

Chevron Contact Name) Brett Hunter
(Phone) (925) 842-8695
Laboratory Name Sequoia
Laboratory Service Order 9144488
Laboratory Service Code ZZ02790
Samples collected by (Name) LEON GEAGHGET
Signature Leon Gaghet

State Method: ☐ CA ☐ OR ☐ WA ☐ NW Series UT

SC

Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Sample Preservation	Date/Time	BTEX/MTBE + TPH GAS (8020 + 8015)	BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oxygenates (8260)	Purgeable Halocarbons (8010)	Purgeable Organics (8270)	Extractable Organics (8270)	Oil and Grease (5520)	Metals (ICAP or AA) Cd, Cr, Pb, Zn, Ni	BTEX (8020)	BTEX/MTBE/Naph. (8020)	Remarks / Lab Sample No.
MW-1	3	W		12/8/99 1235	X											
MW-2				1211	X											
MW-3				1300	X											
MW-4				1322	X											
TB	2				X											

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced Y/N
	BTS	12/8/99 1430			12-9-55	
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced Y/N
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time 12/10/99 1030	Iced (Y)/N

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

Field Data Sheets

WELL GAUGING DATA

Project # 991208-Y3 Date 12/8/99 Client CHEV. 9-1857

Site 451 HEGENBERGER RD OAKLAND CA

	Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
2	MW-1	2					4.07	14.55	TOC	
1	MW-2	2					4.89	14.62		
3	MW-3	2					3.54	14.60		
4	MW-4	2					6.33	14.98		

CHEVRON WELL MONITORING DATA SHEET

Project #: 991208-43	Station #: 9-1851
Sampler: LEON G.	Date: 12-8-99
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 14.55	Depth to Water: 4.07
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	radius^2 * 0.163

Purge Method: Bailer (Disposable Bailer) Middleburg Electric Submersible Extraction Pump Other: ___

Sampling Method: Bailer (Disposable Bailer) Extraction Port Other: ___

1.6 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 4.8 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1227	64.9	6.8	2890	2	
1230	65.6	6.7	2690	3	
1233	65.7	6.7	2654	5	

Did well dewater? Yes (No) Gallons actually evacuated: 5

Sampling Time: 1235 Sampling Date: 12-8-99

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 #: 991206-43	Station #: 9-1651
Sampler: LEON G	Date: 12-6-99
Well I.D.: MW-2	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 14.82	Depth to Water: 4.89
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	radius^2 * 0.163

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

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

1.5 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 4.5 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1202	66.2	6.7	10	2	
1206	69.4	6.8	13	3	
1209	69.3	6.7	16	5	

Did well dewater? Yes (No)		Gallons actually evacuated: 5	
Sampling Time: 1211		Sampling Date: 12-6-99	
Sample I.D.: MW-2		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 #: 991208-93	Station #: 9-1451
Sampler: LEON G.	Date: 12-8-99
Well I.D.: MW-3	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 1460	Depth to Water: 3.54
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius² * 0.163

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

Sampling Method:
Bailer
(Disposable Bailer)
Extraction Port
Other: _____

1.7 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 5.1 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1253	65.6	6.8	4624	2	
1256	66.3	6.8	4657	4	
1258	66.3	6.8	4548	5	

Did well dewater? Yes (No)	Gallons actually evacuated: 5
Sampling Time: 1300	Sampling Date: 12-8-99
Sample I.D.: MW-3	Laboratory: (Sequoia) GTEL 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:	
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	

CHEVRON WELL MONITORING DATA SHEET

Project #: 991208 - PZ	Station #: 9-1651
Sampler: LEON G.	Date: 12-8-99
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 14.98	Depth to Water: 5.33
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius² * 0.163

Purge Method: Bailer; (Disposable Bailer); Middleburg; Electric Submersible; Extraction Pump; Other: _____

Sampling Method: Bailer; (Disposable Bailer); Extraction Port; Other: _____

1.5 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 4.5 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1315	69.1	6.9	5480	2	
1317	70.0	6.9	7305	3	
1320	69.6	6.8	7310	5	

id well dewater? Yes (No) Gallons actually evacuated: 5

ampling Time: 1322 Sampling Date: 12-8-99

mple I.D.: MW-4 Laboratory: (Sequoia) CORE N. Creek Assoc. Labs

alyzed for: TPH-G (BTEX) MTBE TPH-D Other:

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

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