Chevron

March 2, 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

Ms. Susan Hugo
Alameda County Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: Chevron Service Station #9-1740
9550 Moraga Avenue
Oakland, California

Dear Ms. Hugo:

Enclosed is the Fourth Quarter Groundwater Monitoring report for 1998 prepared by our consultant Blaine Tech Services Inc. for the above noted facility. Ground water samples were analyzed for TPH-g, BTEX, and MtBE constituents.

Monitoring wells C-2 and C-4 showed an increase in the benzene constituent from the previous sampling event while well C-3 was below method detection limits for all the constituents. EPA Method 8260 confirmed MtBE in wells C-2 and C-4.

The depth to groundwater varied from 4.80 feet to 6.55 feet below grade with a direction of flow southeasterly.

Chevron believes that residual petroleum hydrocarbons remain around wells C-2 and C-4, which continue to leach into the groundwater. Therefore, Chevron will introduce Oxygen Releasing Compound's (ORC's) into both wells within the next thirty days. This is expected to assist in the natural attenuation process.

Chevron also proposes that the monitoring frequency for well C-3 be changed to annually (1^{st} quarter) and wells C-2 and C-4 to semi-annually (1^{st} and 3^{rd} quarters). This frequency change will be initiated after the next sampling event.

Well C-3 is upgradient of the tanks and pump islands and continued quarterly sampling will not add any additional information to the sampling events. No TPH-g and BTEX constituents have been detected in the last twelve sampling events. MtBE has only been

detected in one of nine sampling events at less than 5.0 ppb. Chevron would continue to measure this well for water depth to establish ground water gradient for the site. Reducing the sampling frequency for wells C-2 and C-4 will not compromise the sampling program.

If you have any questions or comments in introducing ORC's or changing the monitoring frequency, call me within thirty days at (925) 842-9136.

Sincerely,
CHEVRON PRODUCTS COMPANY

Philip R. Briggs
Site Assessment and Remediation Project Manager

Enclosure

Cc. Mr. Bill Scudder, Chevron

Mr. Eddie So
RWQCB-San Francisco Bay Region
2101 Webster Street, Suite 500
Oakland, CA 94612

BLAINE
TECH SERVICES INC

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

February 23, 1999

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

4th Quarter 1998 Monitoring at 9-1740

Fourth Quarter 1998 Groundwater Monitoring at
Chevron Service Station Number 9-1740
6550 Moraga Avenue
Oakland, CA

Monitoring Performed on December 29, 1998

Groundwater Sampling Report **981229-Z-2**

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,

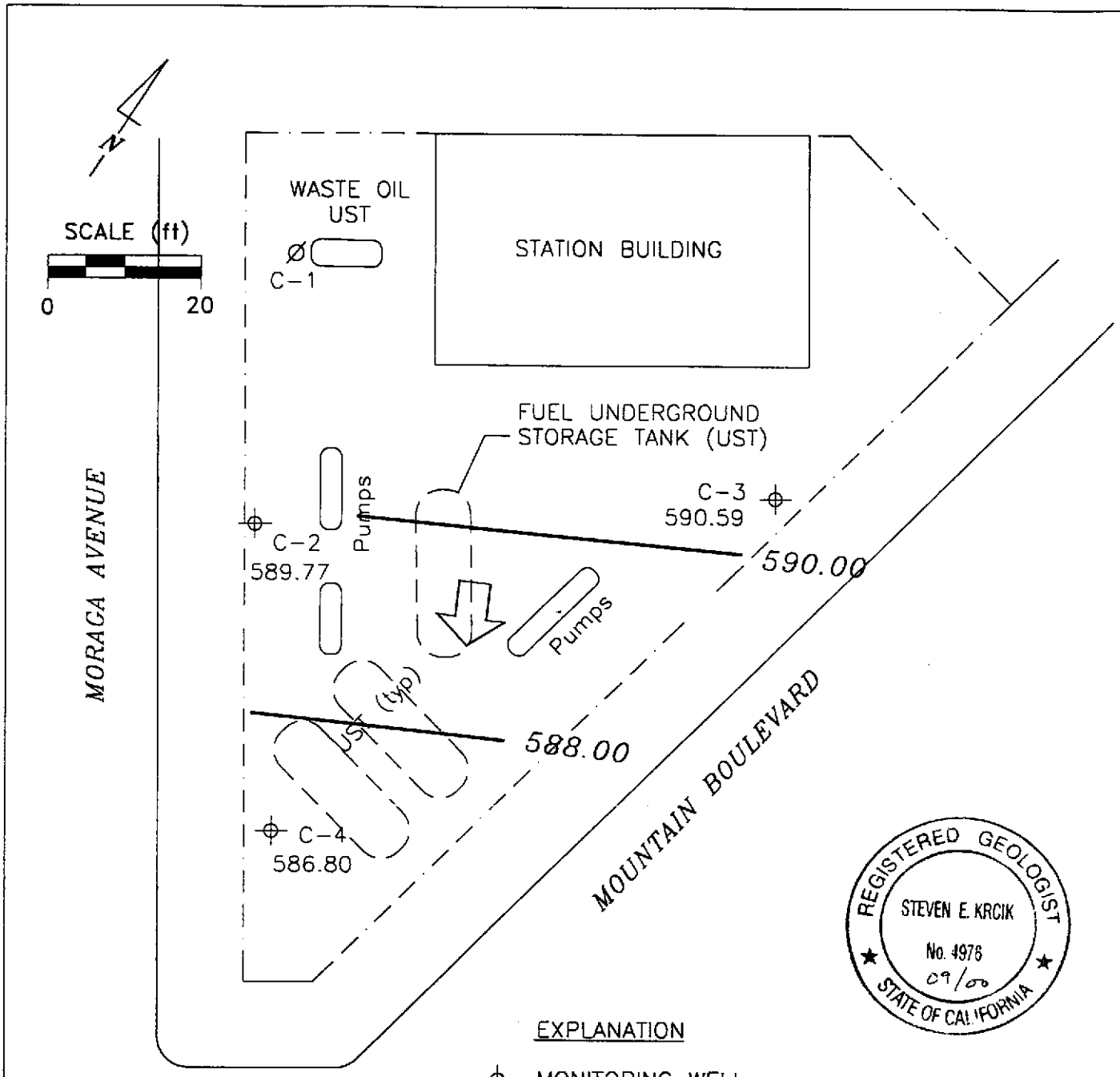
Christine Lillie

Christine Lillie
Project Coordinator

FPT/sb

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

Professional Engineering Appendix



EXPLANATION

- ⊕ MONITORING WELL
- Ø ABANDONED MONITORING WELL
- 586.80 GROUNDWATER ELEVATION (FT, MSL)
- 590.00 — GROUNDWATER ELEVATION CONTOUR (FT, MSL)
- ⇩ APPROXIMATE GROUNDWATER FLOW DIRECTION; APPROXIMATE GRADIENT =0.05

Basemap from Cambria Environmental Technology, Inc.

PREPARED BY

RRM
engineering contracting firm

Chevron Station 9-1740
6550 Moraga Avenue
Oakland, California

GROUNDWATER ELEVATION CONTOUR MAP, DECEMBER 29, 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
C-1										
03/25/91	595.82	592.54	3.28	--	54	0.7	<0.5	<0.5	2.0	--
07/01/91	595.82	592.39	3.43	--	730	250	3.0	16	4.8	--
09/25/91	595.82	591.67	4.15	--	160	68	1.3	6.1	1.3	--
12/23/91	595.82	592.11	3.71	--	170	70	1.6	3.5	2.4	--
03/24/92	595.82	592.80	3.02	--	60	39	4.4	3.9	9.1	--
06/23/92	595.82	592.06	3.76	--	60	19	1.1	1.1	1.0	--
NO LONGER MONITORED OR SAMPLED										
C-2										
03/25/91	594.57	571.68	22.89	--	<50	1.0	<0.5	<0.5	2.0	--
07/01/91	594.57	587.20	7.37	--	660	190	2.5	28	22	--
09/25/91	594.57	587.59	6.98	--	110	200	1.9	21	1.7	--
12/23/91	594.57	589.56	5.01	--	<50	1.2	1.2	<0.5	1.8	--
03/24/92	594.57	577.30	17.27	--	100	5.9	7.9	4.0	14	--
06/23/92	594.57	590.75	3.82	--	190	45	4.5	9.5	10	--
09/30/92	594.57	580.56	14.01	--	240	99	2.3	11	6.1	--
12/16/92	594.57	580.05	14.52	--	280	160	6.2	7.4	5.0	--
03/30/93	594.57	583.49	11.08	--	110	21	<0.5	0.8	<1.5	--
06/10/93	594.57	583.08	11.49	--	180	53	2.6	8.0	5.8	--
09/02/93	594.57	580.49	14.08	--	51	18	0.8	4.4	<1.5	--
12/06/93	594.57	579.87	14.70	--	<50	20	1.3	2.7	<0.5	--
03/02/94	594.57	579.70	14.87	--	<50	9.9	1.6	<0.5	0.8	--
06/03/94	594.57	579.35	15.22	--	440	300	2.7	61	2.1	--
09/07/94	594.57	587.27	7.30	--	80	30	<0.5	1.6	<0.5	--
12/06/94	594.57	589.29	5.28	--	120	51	<0.5	4.7	<0.5	--
03/31/95	594.57	589.13	5.44	--	770	250	<5.0	74	<5.0	--
06/15/95	594.57	589.62	4.95	--	240	76	<1.0	26	<1.0	--
09/25/95	594.57	587.78	6.79	--	<50	1.2	<0.5	<0.5	<0.5	--
12/19/95	594.57	588.94	5.63	--	<250	23	<2.5	<2.5	<2.5	860
03/31/97	594.57	589.74	4.83	--	<500	48	<5.0	<5.0	<5.0	2900
06/23/97	594.57	589.98	4.59	--	1200	240	<10	<10	<10	4900

CONTINUED ON NEXT PAGE

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
C-2 (CONT'D)										
09/02/97	594.57	590.02	4.55	--	1400	340	<5.0	54	6.9	2500
12/15/97	594.57	590.26	4.31	--	540	100	<2.5	8.7	<2.5	2400
03/10/98	594.57	590.00	4.57	--	<500	<5.0	<5.0	<5.0	<5.0	3000
06/16/98	594.57	589.99	4.58	--	120	6.6	<1.0	<1.0	<1.0	2500
08/25/98	594.57	589.67	4.90	--	140	<0.5	<0.5	<0.5	<0.5	2600
12/29/98	594.57	589.77	4.80	--	1830	17.7	<10.0	<10.0	14.9	4600
12/29/98	594.57	589.77	4.80	Confirmation Run	--	--	--	--	--	4890
C-3										
03/25/91	597.14	591.98	5.16	--	<50	<0.5	<0.5	<0.5	0.5	--
07/01/91	597.14	591.30	5.84	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/25/91	597.14	591.20	5.94	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/23/91	597.14	591.20	5.94	--	<50	1.0	<0.5	<0.5	1.5	--
03/24/92	597.14	592.37	4.77	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/23/92	597.14	591.47	5.67	--	<50	0.9	1.1	0.5	1.6	--
09/30/92	597.14	590.84	6.30	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/16/92	597.14	591.57	5.57	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/30/93	597.14	592.08	5.06	--	<50	<0.5	<0.5	<0.5	<1.5	--
06/10/93	597.14	591.85	5.29	--	<50	0.6	1.9	0.6	3.5	--
09/02/93	597.14	591.22	5.92	--	<50	<0.5	<0.5	<0.5	<1.5	--
12/06/93	597.14	591.38	5.76	--	<50	<0.5	0.6	<0.5	<0.5	--
03/02/94	597.14	591.97	5.17	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/03/94	597.14	591.74	5.40	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/07/94	597.14	591.14	6.00	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/06/94	597.14	591.95	5.19	--	<50	<0.5	0.8	<0.5	<0.5	--
03/31/95	597.14	592.04	5.10	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/15/95	597.14	591.78	5.36	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/25/95	597.14	591.04	6.10	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/19/95	597.14	591.46	5.68	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5

CONTINUED ON NEXT PAGE

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
C-3(CONT'D)										
03/31/97	597.14	590.65	6.49	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/23/97	597.14	590.63	6.51	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/02/97	597.14	591.07	6.07	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
12/15/97	597.14	590.86	6.28	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
03/10/98	597.14	590.89	6.25	--	<50	<0.5	<0.5	<0.5	<0.5	3.5
06/16/98	597.14	590.80	6.34	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
08/25/98	597.14	590.61	6.53	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
12/29/98	597.14	590.59	6.55	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0

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
C-4										
03/25/91	593.10	588.65	4.45	--	2700	240	16	<0.5	350	--
07/01/91	593.10	587.77	5.33	--	7900	1500	230	340	350	--
09/25/91	593.10	587.60	5.50	--	3200	850	160	150	220	--
12/23/91	593.10	588.18	4.92	--	4100	390	52	42	340	--
03/24/92	593.10	589.06	4.19	Free Product (0.19')	--	--	--	--	--	--
06/23/92	593.10	588.43	4.91	Free Product (0.30')	--	--	--	--	--	--
09/30/92	593.10	584.44	8.66	--	450	97	14	12	29	--
12/16/92	593.10	583.30	9.80	--	590	130	18	5.6	29	--
03/30/93	593.10	583.20	10.00	Free Product (0.12')	--	--	--	--	--	--
06/10/93	593.10	583.46	9.64	--	1300	290	36	17	73	--
09/02/93	593.10	583.02	10.08	--	630	97	12	6.6	21	--
12/06/93	593.10	582.85	10.25	--	1900	600	68	27	130	--
03/02/94	593.10	584.36	8.74	--	2600	1200	110	43	180	--
06/03/94	593.10	583.27	9.83	--	780	180	13	8.5	26	--
09/07/94	593.10	582.80	10.30	--	<50	14	<0.5	0.7	<0.5	--
12/06/94	593.10	583.90	9.20	--	980	270	21	12	38	--
03/31/95	593.10	582.86	10.24	--	1500	450	25	11	49	--
06/15/95	593.10	582.78	10.32	--	960	250	15	4.5	37	--
09/25/95	593.10	584.72	8.38	--	<500	18	<5.0	<5.0	<5.0	--
12/19/95	593.10	582.94	10.16	--	<500	32	<5.0	<5.0	<5.0	2400
03/31/97	593.10	588.42	4.68	--	3400	960	51	64	140	2100
06/23/97	593.10	588.36	4.74	--	1600	580	19	8.2	27	2300
09/02/97	593.10	588.33	4.77	--	6900	1400	59	130	410	3100
12/15/97	593.10	588.60	4.50	--	3300	1200	37	74	130	3700
03/10/98	593.10	588.92	4.18	--	1100	250	19	13	62	4000
06/16/98	593.10	586.53	6.57	--	1200	350	<10	12	39	4500
08/25/98	593.10	586.30	6.80	--	290	24	0.72	0.87	1.9	3600
12/29/98	593.10	586.80	6.30	--	3190	957	<25	<25	<25	8100
12/29/98	593.10	586.80	6.30	Confirmation Run	--	--	--	--	--	8500

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
TRIP BLANK										
03/25/91	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/01/91	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/25/91	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/23/91	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/24/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/23/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/30/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/16/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/30/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
06/10/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
09/02/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
12/06/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/02/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/03/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/07/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/06/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/31/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/15/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/25/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/19/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/31/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/23/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/02/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
12/15/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
03/10/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/16/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
08/25/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
12/29/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0

Note: Blaine Tech Services, Inc. began routine monitoring of the groundwater wells at this site on March 31, 1995.
Earlier field data and analytical results provided by Sierra Environmental.

ABBREVIATIONS:
TPH = Total Petroleum Hydrocarbons
MTBE = Methyl t-Butyl Ether

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

January 15, 1999

Christine Lillie
Blaine Tech/Chevron
1680 Rogers Ave.
San Jose, CA 95112

RE: Chevron/P901010

Dear Christine Lillie

Enclosed are the results of analyses for sample(s) received by the laboratory on December 31, 1998. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Matt Sakai
Project Manager

CA ELAP Certificate Number 2245

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
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Blaine Tech/Chevron	Project:	Chevron	Sampled: 12/29/98
1680 Rogers Ave.	Project Number:	9-1740/981229-Z2	Received: 12/31/98
San Jose, CA 95112	Project Manager:	Christine Lillie	Reported: 1/15/99

ANALYTICAL REPORT FOR P901010

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
C-2	P901010-01	Water	12/29/98
C-3	P901010-02	Water	12/29/98
C-4	P901010-03	Water	12/29/98
TB	P901010-04	Water	12/29/98

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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Blaine Tech/Chevron	Project:	Chevron	Sampled: 12/29/98
1680 Rogers Ave.	Project Number:	9-1740/981229-Z2	Received: 12/31/98
San Jose, CA 95112	Project Manager:	Christine Lillie	Reported: 1/15/99

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M
Sequoia Analytical - Petaluma

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
C-2			**P901010-01**				**Water**	
Gasoline	9010074	1/6/99	1/6/99		1000	**1830**	ug/l	
Benzene	"	"	"		10.0	**17.7**	"	
Toluene	"	"	"		10.0	ND	"	
Ethylbenzene	"	"	"		10.0	ND	"	
Xylenes (total)	"	"	"		10.0	**14.9**	"	
Methyl tert-butyl ether	"	"	"		40.0	**4600**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*65.0-135*		*105*	*%*	
Surrogate: 4-Bromofluorobenzene	"	"	"	*65.0-135*		*93.3*	"	
C-3			**P901010-02**				**Water**	
Gasoline	9010074	1/6/99	1/6/99		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	"	"	"		2.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*65.0-135*		*109*	*%*	
Surrogate: 4-Bromofluorobenzene	"	"	"	*65.0-135*		*98.7*	"	
C-4			**P901010-03**				**Water**	
Gasoline	9010074	1/6/99	1/6/99		2500	**3190**	ug/l	
Benzene	"	"	"		25.0	**957**	"	
Toluene	"	"	"		25.0	ND	"	
Ethylbenzene	"	"	"		25.0	ND	"	
Xylenes (total)	"	"	"		25.0	ND	"	
Methyl tert-butyl ether	"	"	"		100	**8100**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*65.0-135*		*108*	*%*	
Surrogate: 4-Bromofluorobenzene	"	"	"	*65.0-135*		*95.7*	"	
TB			**P901010-04**				**Water**	
Gasoline	9010074	1/6/99	1/6/99		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	"	"	"		2.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*65.0-135*		*107*	*%*	
Surrogate: 4-Bromofluorobenzene	"	"	"	*65.0-135*		*98.0*	"	

Sequoia Analytical

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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech/Chevron	Project:	Chevron	Sampled: 12/29/98
1680 Rogers Ave.	Project Number:	9-1740/981229-Z2	Received: 12/31/98
San Jose, CA 95112	Project Manager:	Christine Lillie	Reported: 1/15/99

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Petaluma

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
C-2			**P901010-01**				**Water**	
Methyl tert-butyl ether	9010082	1/7/99	1/7/99		100	**4890**	ug/l	
Surrogate: Dibromofluoromethane	"	"	"	*86.0-118*		*101*	%	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	*80.0-120*		*102*	"	
Surrogate: Toluene-d8	"	"	"	*88.0-110*		*102*	"	
Surrogate: 4-Bromofluorobenzene	"	"	"	*86.0-115*		*99.4*	"	
C-4			**P901010-03**				**Water**	
Methyl tert-butyl ether	9010082	1/7/99	1/7/99		250	**8500**	ug/l	
Surrogate: Dibromofluoromethane	"	"	"	*86.0-118*		*101*	%	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	*80.0-120*		*103*	"	
Surrogate: Toluene-d8	"	"	"	*88.0-110*		*105*	"	
Surrogate: 4-Bromofluorobenzene	"	"	"	*86.0-115*		*102*	"	

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Blaine Tech/Chevron	Project:	Chevron	Sampled: 12/29/98
1680 Rogers Ave.	Project Number:	9-1740/981229-Z2	Received: 12/31/98
San Jose, CA 95112	Project Manager:	Christine Lillie	Reported: 1/15/99

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M/Quality Control
Sequoia Analytical - Petaluma

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9010074	**Date Prepared: 1/6/99**					**Extraction Method: EPA 5030 waters**				
Blank	**9010074-BLK1**									
Gasoline	1/6/99			**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**	"	**2.00**				
Surrogate: a,a,a-Trifluorotoluene	"	*300*		*347*	"	*65.0-135*	*116*			
Surrogate: 4-Bromofluorobenzene	"	*300*		*303*	"	*65.0-135*	*101*			
LCS	**9010074-BS1**									
Benzene	1/6/99	100		115	ug/l	65.0-135	115			
Toluene	"	100		112	"	65.0-135	112			
Ethylbenzene	"	100		107	"	65.0-135	107			
Xylenes (total)	"	300		333	"	65.0-135	111			
Surrogate: a,a,a-Trifluorotoluene	"	*300*		*357*	"	*65.0-135*	*119*			
Matrix Spike	**9010074-MS1**		**P901010-02**							
Benzene	1/6/99	100	ND	109	ug/l	65.0-135	**109**			
Toluene	"	100	ND	110	"	65.0-135	**110**			
Ethylbenzene	"	100	ND	104	"	65.0-135	**104**			
Xylenes (total)	"	300	ND	324	"	65.0-135	**108**			
Surrogate: a,a,a-Trifluorotoluene	"	*300*		*313*	"	*65.0-135*	*104*			
Matrix Spike Dup	**9010074-MSD1**		**P901010-02**							
Benzene	1/6/99	100	ND	107	ug/l	65.0-135	**107**	20.0	**1.85**	
Toluene	"	100	ND	107	"	65.0-135	**107**	20.0	**2.76**	
Ethylbenzene	"	100	ND	102	"	65.0-135	**102**	20.0	**1.94**	
Xylenes (total)	"	300	ND	318	"	65.0-135	**106**	20.0	**1.87**	
Surrogate: a,a,a-Trifluorotoluene	"	*300*		*316*	"	*65.0-135*	*105*			

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Blaine Tech/Chevron	Project:	Chevron	Sampled: 12/29/98
1680 Rogers Ave.	Project Number:	9-1740/981229-Z2	Received: 12/31/98
San Jose, CA 95112	Project Manager:	Christine Lillie	Reported: 1/15/99

Volatile Organic Compounds by EPA Method 8260B/Quality Control
Sequoia Analytical - Petaluma

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9010082	**Date Prepared: 1/6/99**					**Extraction Method: EPA 5030 waters**				
Blank	**9010082-BLK1**									
Methyl tert-butyl ether	1/6/99			**ND**	ug/l	**1.00**				
Surrogate: Dibromofluoromethane	"	*5.00*		*4.95*	"	*86.0-118*	*99.0*			
Surrogate: 1,2-Dichloroethane-d4	"	*5.00*		*4.95*	"	*80.0-120*	*99.0*			
Surrogate: Toluene-d8	"	*5.00*		*5.22*	"	*88.0-110*	*104*			
Surrogate: 4-Bromofluorobenzene	"	*5.00*		*5.09*	"	*86.0-115*	*102*			
Blank	**9010082-BLK2**									
Methyl tert-butyl ether	1/7/99			**ND**	ug/l	**1.00**				
Surrogate: Dibromofluoromethane	"	*5.00*		*4.71*	"	*86.0-118*	*94.2*			
Surrogate: 1,2-Dichloroethane-d4	"	*5.00*		*4.81*	"	*80.0-120*	*96.2*			
Surrogate: Toluene-d8	"	*5.00*		*4.74*	"	*88.0-110*	*94.8*			
Surrogate: 4-Bromofluorobenzene	"	*5.00*		*4.63*	"	*86.0-115*	*92.6*			
Blank	**9010082-BLK3**									
Methyl tert-butyl ether	1/8/99			**ND**	ug/l	**1.00**				
Surrogate: Dibromofluoromethane	"	*5.00*		*4.76*	"	*86.0-118*	*95.2*			
Surrogate: 1,2-Dichloroethane-d4	"	*5.00*		*4.78*	"	*80.0-120*	*95.6*			
Surrogate: Toluene-d8	"	*5.00*		*5.09*	"	*88.0-110*	*102*			
Surrogate: 4-Bromofluorobenzene	"	*5.00*		*4.91*	"	*86.0-115*	*98.2*			
LCS	**9010082-BS1**									
Surrogate: Dibromofluoromethane	*1/6/99*	*5.00*		*5.04*	*ug/l*	*86.0-118*	*101*			
Surrogate: 1,2-Dichloroethane-d4	"	*5.00*		*5.14*	"	*80.0-120*	*103*			
Surrogate: Toluene-d8	"	*5.00*		*5.09*	"	*88.0-110*	*102*			
Surrogate: 4-Bromofluorobenzene	"	*5.00*		*4.92*	"	*86.0-115*	*98.4*			
LCS	**9010082-BS2**									
Surrogate: Dibromofluoromethane	*1/7/99*	*5.00*		*5.06*	*ug/l*	*86.0-118*	*101*			
Surrogate: 1,2-Dichloroethane-d4	"	*5.00*		*5.22*	"	*80.0-120*	*104*			
Surrogate: Toluene-d8	"	*5.00*		*5.02*	"	*88.0-110*	*100*			
Surrogate: 4-Bromofluorobenzene	"	*5.00*		*4.95*	"	*86.0-115*	*99.0*			
LCS	**9010082-BS3**									
Surrogate: Dibromofluoromethane	*1/8/99*	*5.00*		*4.73*	*ug/l*	*86.0-118*	*94.6*			
Surrogate: 1,2-Dichloroethane-d4	"	*5.00*		*5.04*	"	*80.0-120*	*101*			
Surrogate: Toluene-d8	"	*5.00*		*4.89*	"	*88.0-110*	*97.8*			
Surrogate: 4-Bromofluorobenzene	"	*5.00*		*4.69*	"	*86.0-115*	*93.8*			
Matrix Spike	**9010082-MS1**		**P901028-04**							
Surrogate: Dibromofluoromethane	*1/6/99*	*5.00*		*5.04*	*ug/l*	*86.0-118*	*101*			

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Blaine Tech/Chevron	Project:	Chevron	Sampled: 12/29/98
1680 Rogers Ave.	Project Number:	9-1740/981229-Z2	Received: 12/31/98
San Jose, CA 95112	Project Manager:	Christine Lillie	Reported: 1/15/99

Volatile Organic Compounds by EPA Method 8260B/Quality Control
Sequoia Analytical - Petaluma

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Matrix Spike (continued)	**9010082-MS1**		**P901028-04**							
Surrogate: 1,2-Dichloroethane-d4	*1/6/99*	*5.00*		*5.38*	*ug/l*	*80.0-120*	*108*			
Surrogate: Toluene-d8	"	*5.00*		*5.24*	"	*88.0-110*	*105*			
Surrogate: 4-Bromofluorobenzene	"	*5.00*		*5.15*	"	*86.0-115*	*103*			
Matrix Spike Dup	**9010082-MSD1**		**P901028-04**							
Surrogate: Dibromofluoromethane	*1/7/99*	*5.00*		*5.39*	*ug/l*	*86.0-118*	*108*			
Surrogate: 1,2-Dichloroethane-d4	"	*5.00*		*5.55*	"	*80.0-120*	*111*			
Surrogate: Toluene-d8	"	*5.00*		*5.30*	"	*88.0-110*	*106*			
Surrogate: 4-Bromofluorobenzene	"	*5.00*		*5.15*	"	*86.0-115*	*103*			

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Blaine Tech/Chevron	Project:	Chevron	Sampled:	12/29/98
1680 Rogers Ave.	Project Number:	9-1740/981229-Z2	Received:	12/31/98
San Jose, CA 95112	Project Manager:	Christine Lillie	Reported:	1/15/99

Notes and Definitions

#	Note
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 9-1740
Facility Address 6550 Moraga Ave., Oakland
Consultant Project Number 981229-22
Consultant Name BLAINE TECH SERVICE, INC.
Address 1680 ROGERS AVE., SAN JOSE
Project Contact (Name) CHRISTINE LILLIE
(Phone) 408-573-0555 (Fax Number) 408-573-7771

Chevron Contact (Name) PHIL BRIGGS
(Phone) (925) 842-9136
Laboratory Name SEQUOIA
Laboratory Service Order 9144488
Laboratory Service Code ZZ02800
Samples Collected by (Name) JR
Signature

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

Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water 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 (8260)	Extractable Organics (8270)	Oil and Grease (5520)	Metals (ICAP or AA) Cd,Cr,Pb,Zn,Ni	BTEX (8020)	BTEX/MTBE/Naph. (8020)	TPH - HOID	TPH-D Extended	MTBE by 8020/8260					Remarks / Lab Sample No.
C-2	7	W	HCl	12/29 1430	X													X	P901010			-01	
C-3	3	↓	↓	↓ 1406	X																	-02	
C-4	7			1450	X													X				-03	
TB	2			—	X																	-04	
							NA																

COOLER CUSTODY SEALS INTACT ☐ NOT INTACT ☐
COOLER TEMPERATURE 6 °C

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced Y/N
	BTS	12/30/98 945			123098 1020	
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced Y/N
		12/30				
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time	Iced Y/N
		12/30 1125			12/30 1625	(Y)

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

Field
Data
Sheets

WELL GAUGING DATA

Project # 981229-2 Date 12-29-98 Client CHEVRON #9-1740
6550 Moraga Blvd.
Oakland, CA

Site

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	
C2	2		-			4.80	26.85	TOC	
C3	2					6.55	18.64	"	
C4	2	Odor				6.30	24.65	"	

CHEVRON WELL MONITORING DATA SHEET

Project #: 981229-22	Station #: 9-1740
Sampler: JR	Date: 12-29-98
Well I.D.: C-2	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 26.85	Depth to Water: 4.80
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: ___

3.5	X	3	=	10.5 Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1420	71.0	6.9	1300	4	
1423	70.6	7.0	1300	8	
1426	70.2	6.9	1100	11	

Did well dewater? Yes (No)		Gallons actually evacuated: 11	
Sampling Time: 1430		Sampling Date: 12-29-98	
Sample I.D.: C-2		Laboratory: (Sequoia) CORE N. Creek Assoc. Labs	
Analyzed for: (TPH-G BTEX MTBE) TPH-D		Other: MTBE by 820 & 8260	
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 #: 981229-22	Station #: 9-1740
Sampler: JR	Date: 12-29-98
Well I.D.: C-3	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 18.64	Depth to Water: 6.55
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: _____

1.9 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 5.7 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1400	71.8	7.0	1100	2	
1402	71.6	7.0	1000	4	
1404	71.2	6.9	1000	6	

Did well dewater? Yes (No)		Gallons actually evacuated: 6	
Sampling Time: 1405		Sampling Date: 12-29-98	
Sample I.D.: C-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 #: 981229-Z2	Station #: 9-1740
Sampler: JR	Date: 12-29-98
Well I.D.: C-4	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 24.65	Depth to Water: 6.30
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: ___

2.9 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 8.7 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1441	70.8	7.1	1410	3	Odor, sheen
1444	70.6	7.0	1300	6	
1447	70.2	6.8	1200	9	

Did well dewater? Yes (No)

Gallons actually evacuated: 9

Sampling Time: 1450

Sampling Date: 12-29-98

Sample I.D.: C-4

Laboratory: (Sequoia) CORE N. Creek Assoc. Labs

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

Other: MTBE by 8020 & 8260

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