

ENVIRONMENTAL
PROTECTION

99 JUL -1 AM 9:42

*Response to June 16, 1999
to a partial report with about*

ALB



Chevron

June 25, 1999

*STIP
776*

Chevron Products Company
6001 Bollinger Canyon Road
Building L, Room 1080
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. Amir Gholami
Alameda County Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

**Re: Chevron Service Station #9-0504
15900 Hesperian Blvd., San Lorenzo, California**

Dear Mr. Gholami:

Enclosed is the Semi-Annual Groundwater Monitoring Report for 1999 (First Quarter), that was prepared by our consultant Blaine Tech Services, for the above noted site. Note that this is a change in consultants from the previous sampling event. Ground water samples were collected and analyzed for TPH-g, BTEX and MtBE constituents.

The sampling frequency on the groundwater monitoring wells was changed in accordance with Juliet Shin's letter of May 21, 1997 and verbal conversation of June 12, 1997. Monitoring wells C-4, C-5 and C-6 are discontinued from sampling, while wells C-1, C-2, C-3, C-7 and C-8 are sampled annually, in March. Wells C-9, C-10 and C-11 are to be sampled semi-annually, in March and September.

The benzene concentration decreased to below method detection limits in monitoring wells C-1 and C-3 from the previous sampling event, while increasing in well C-7. The benzene concentration in wells C-2 and C-8 remained almost the same as in the previous sampling event, while the TPH-g and BTEX constituents were below method detection limits in well C-10.

The slight increase of benzene in well C-9 that was detected in the last sampling event appears to have been an anomaly, since in this event, benzene and all the other constituents were below method detection limits. In well MW-11, the concentrations of all of the constituents were also below method detection limits.

June 25, 1999
Mr. Amir Gholami
Chevron Service Station #9-0504
Page 2

Depth to ground water varied from 7.16 feet to 10.02 feet below grade with direction of flow south southwesterly.

The MtBE constituents was confirmed in five of the eight wells sampled, however no other oxygenates were detected in these five wells. The highest concentration of MtBE confirmed by EPA Method 8260 was in well C-2 at 330 ppb.

Chevron will continue to monitor this site based on the schedule noted above. If you have any questions or comments, call me at (925) 842-9136.

Sincerely,
CHEVRON PRODUCTS COMPANY

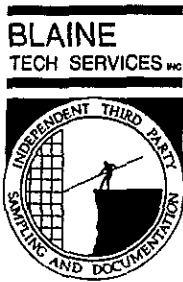


Philip R. Briggs
Site Assessment and Remediation Project Manger

Enclosure

Cc. Mr. Bill Scudder, Chevron

Mr. Ron Sykora
David E. Bohannon Organization
60 Hillsdale Mall
San Mateo, CA 94403



1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
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June 14, 1999

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

1st Quarter 1999 Monitoring at 9-0504

First Quarter 1999 Groundwater Monitoring at
Chevron Service Station Number 9-0504
15900 Hesperian Blvd.
San Lorenzo, CA

Monitoring Performed on March 19, 1999

Groundwater Sampling Report 990319-K-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,

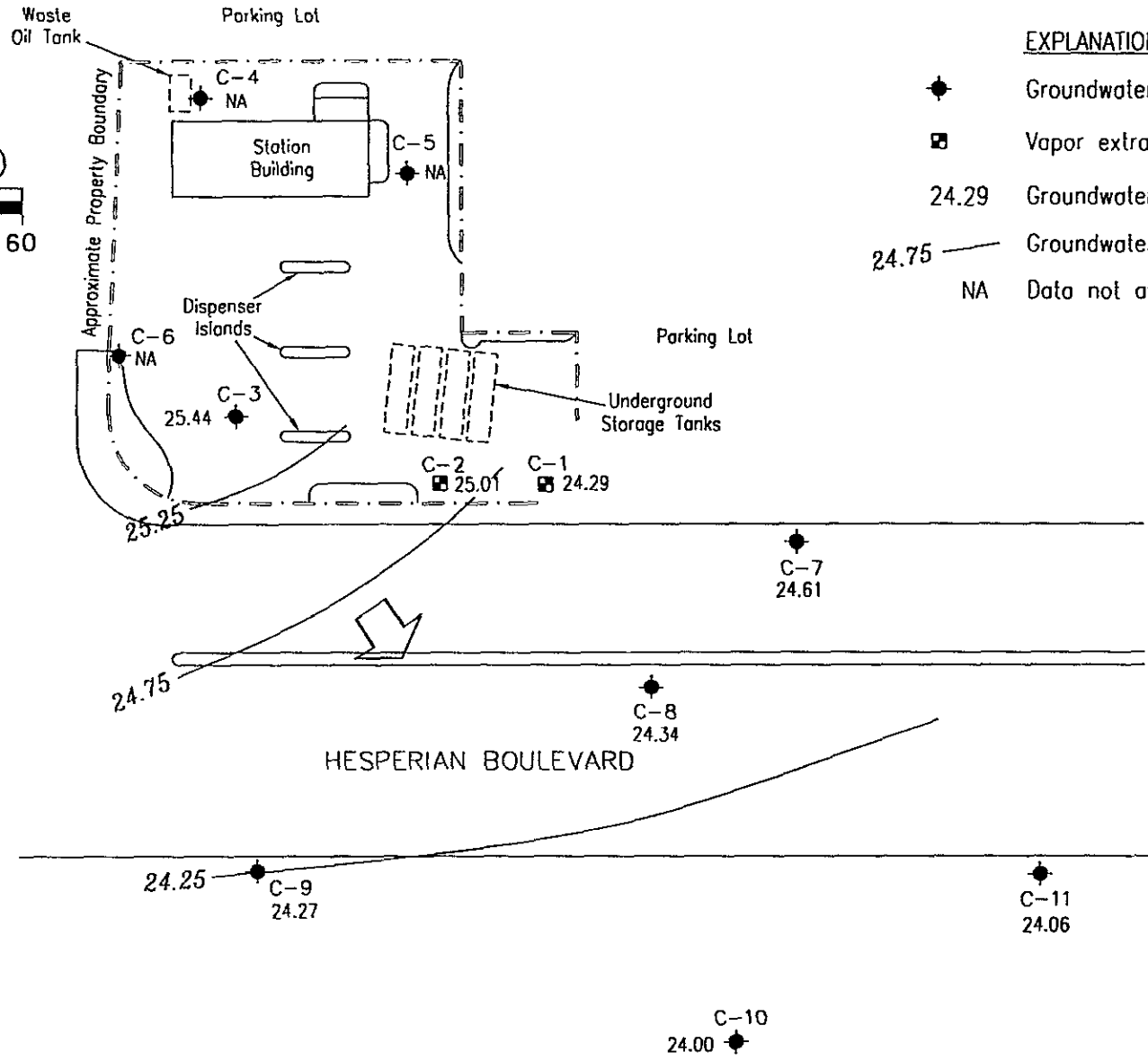
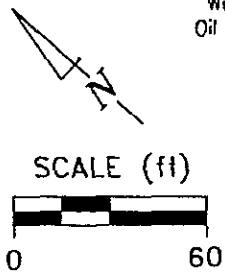


Christine Lillie
Project Coordinator

CAL/sb

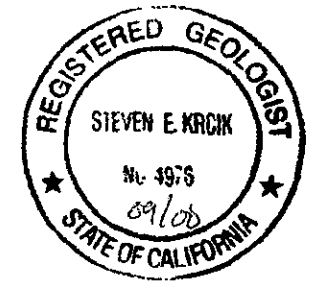
attachments: Professional Engineering Appendix
Cumulative Table of Well Data and Analytical Results
Analytical Appendix
Field Data Sheets

Professional Engineering Appendix



EXPLANATION:

- ◆ Groundwater monitoring well
- Vapor extraction well
- 24.29 Groundwater elevation (ft, msl)
- 24.75 — Groundwater elevation contour (ft, msl)
- NA Data not available



Ref. 0504-qm dwg
Base map from Gettier-Ryon, Inc.

PREPARED BY

Chevron Station 9-0504
15900 Hesperian Boulevard
San Lorenzo, California

GROUNDWATER ELEVATION CONTOUR MAP,
MARCH 19, 1999

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	SPH Thickness	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	HVOCs
C-1												
06/06/89	--	--	--	--	--	5100	250	170	200	990	--	--
12/08/89	--	--	13.14	0.01	--	--	--	--	--	--	--	--
09/07/90	33.93	19.91	14.04	0.03	--	--	--	--	--	--	--	--
12/20/90	33.93	20.07	13.87	0.01	--	--	--	--	--	--	--	--
03/15/91	33.93	22.53	11.40	--	--	37,000	220	53	53	1900	--	--
06/28/91	33.93	21.68	12.25	--	--	3300	110	6.2	6.2	350	--	--
09/26/91	33.93	19.91	14.02	--	--	3200	220	6.9	6.9	710	--	--
01/27/92	33.93	21.30	12.63	--	--	330	20	0.6	0.6	48	--	--
04/20/92	33.93	23.50	10.43	--	--	2700	130	3.4	3.4	690	--	--
07/17/92	33.93	21.32	12.61	--	--	490	17	<0.5	<0.5	52	--	--
01/20/93	33.93	24.51	9.42	--	--	--	--	--	--	--	--	--
07/28/93	33.93	23.45	10.48	--	--	--	--	--	--	--	--	--
10/27/93	32.80	21.48	11.32	--	--	240	3.6	<0.5	11	23	--	--
03/31/94	32.80	23.35	9.45	--	--	530	23	1.2	10	120	--	--
06/08/94	32.80	22.87	9.93	--	--	990	15	1.5	42	89	--	--
09/29/94	32.80	--	--	--	Inaccessible	--	--	--	--	--	--	--
11/09/94	32.80	--	--	--	Inaccessible	--	--	--	--	--	--	--
12/14/94	32.80	--	--	--	Inaccessible	--	--	--	--	--	--	--
03/30/95	32.80	24.79	8.01	--	--	3900	21	7.2	190	250	--	--
06/30/95	32.80	22.98	9.82	--	--	1400	3.1	0.8	54	95	--	--
09/22/95	32.80	22.20	10.60	--	--	620**	0.7	<0.5	3.3	3.5	--	--
12/11/95	32.80	22.50	10.30	--	--	210	2.4	<0.5	43	85	79	--
03/08/96	32.80	25.15	7.65	--	--	750	2.1	<0.5	22	34	330	--
06/21/96	32.80	23.52	9.28	--	--	2800	9.0	<0.5	94	83	1300	--
09/27/96	32.80	22.52	10.28	--	--	770	0.5	<0.5	5.1	6.1	580	--
01/03/97	32.80	24.95	7.85	--	--	1800	2.8	<0.5	51	41	110	--
03/28/97	32.80	23.43	9.37	--	--	720	0.6	<0.5	4.7	3.7	200	--
09/30/97	32.80	--	--	--	--	--	--	--	--	--	--	--
03/28/98	32.80	25.08	7.72	--	--	940*	3.9	<0.5	17	4.7	290	--
09/08/98	32.80	--	--	--	--	--	--	--	--	--	--	--
03/19/99	32.80	24.29	8.51	--	***	320	<0.5	<0.5	8.5	2.5	350	--

*Chromatogram pattern indicated an unidentified hydrocarbon.

**Laboratory report indicates uncategorized compounds are not included in gasoline concentration.

***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	SPH Thickness	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	HVOCs
C-2												
06/06/89	--	--	--	--	--	130,000	14,000	28,000	3400	24,000	--	--
12/08/89	--	--	13.44	0.15	--	--	--	--	--	--	--	--
09/07/90	34.21	20.01	14.28	0.10	--	--	--	--	--	--	--	--
12/20/90	34.21	20.16	14.06	0.01	--	--	--	--	--	--	--	--
03/15/91	34.21	22.63	11.59	0.01	--	1,200,000	4700	16,000	13,000	140,000	--	--
06/28/91	34.21	21.66	12.55	--	--	150,000	3500	4200	2100	16,000	--	--
09/26/91	34.21	20.01	14.20	--	--	4900	220	290	130	880	--	--
01/27/92	34.21	21.75	12.46	--	--	8200	510	590	230	1300	--	--
04/20/92	34.21	23.97	10.24	--	--	19,000	1700	1700	930	4700	--	--
07/17/92	34.21	21.40	12.81	--	--	20,000	950	950	1300	4700	--	--
01/20/93	34.21	25.42	8.79	--	--	--	--	--	--	--	--	--
10/27/93	33.46	21.10	12.36	--	--	1600	63	5.8	5.9	190	--	--
03/31/94	33.46	23.84	9.62	--	--	12,000	300	96	510	2700	--	--
06/08/94	33.46	23.48	9.98	--	--	8700	140	35	250	1500	--	--
09/28/94	33.46	--	--	--	Inaccessible	--	--	--	--	--	--	--
11/09/94	33.46	--	--	--	Inaccessible	--	--	--	--	--	--	--
12/14/94	33.46	--	--	--	Inaccessible	--	--	--	--	--	--	--
03/30/95	33.46	25.77	7.69	--	--	1400	17	5.4	52	240	--	--
06/30/95	33.46	23.56	9.90	--	--	730	22	2.6	50	240	--	--
09/22/95	33.46	22.85	10.61	--	--	2100**	66	7.3	140	550	--	--
12/11/95	33.46	23.08	10.38	--	--	3700	23	<0.5	68	300	1000	--
03/08/96	33.46	25.76	7.70	--	--	2200	19	<5.0	63	290	1300	--
06/21/96	33.46	24.09	9.37	--	--	2200	23	1.1	70	260	2300	--
09/27/96	33.46	22.88	10.58	--	--	5500	12	0.6	30	110	2200	--
01/03/97	33.46	25.56	7.90	--	--	750	4.2	<0.5	29	120	51	--
03/28/97	33.46	24.11	9.35	--	--	1300	12	1.5	24	86	310	--
09/30/97	33.46	--	--	--	--	--	--	--	--	--	--	--
03/28/98	33.46	25.46	8.00	--	--	1100*	14	<5.0	34	79	710	--
09/08/98	33.46	--	--	--	--	--	--	--	--	--	--	--
03/19/99	33.46	25.01	8.45	--	***	1400	15	<0.5	56	130	460	--

*Chromatogram pattern indicated an unidentified hydrocarbon.

**Laboratory report indicates uncategorized compounds are not included in gasoline concentration.

***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	SPH Thickness	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	HVOCs
C-3												
06/06/89	--	--	--	--	--	2600	63	20	390	370	--	--
12/08/89	--	--	--	--	--	680	6.0	1.0	31	58	--	--
09/07/90	35.46	20.15	15.31	--	--	490	6.0	<0.5	41	120	--	--
09/07/90	35.46	--	--	--	Duplicate	460	6.0	<0.5	40	110	--	--
12/20/90	35.46	20.29	15.17	--	--	100	5.0	<0.5	27	130	--	--
03/06/91	35.46	22.19	13.27	--	--	1300	7.0	<0.5	75	250	--	--
03/06/91	35.46	--	--	--	Duplicate	1400	8.0	<0.5	76	250	--	--
06/28/91	35.46	21.79	13.67	--	--	770	6.0	<0.5	81	71	--	--
06/28/91	35.46	--	--	--	Duplicate	990	5.5	<0.5	86	75	--	--
09/26/91	35.46	20.14	15.32	--	--	1400	7.9	<0.5	98	340	--	--
01/27/92	35.46	21.55	13.91	--	--	150	0.7	<0.5	12	12	--	--
04/20/92	35.46	23.80	11.66	--	--	1600	9.3	1.0	190	370	--	--
07/17/92	35.46	21.50	13.96	--	--	460	18	<0.5	20	52	--	--
10/29/92	35.46	19.95	15.51	--	--	520	2.4	1.0	30	79	--	--
01/20/93	35.46	24.47	10.99	--	--	4200	7.4	<0.5	140	380	--	--
05/03/93	35.46	24.49	10.97	--	--	1300	6.8	3.2	71	170	--	--
07/28/93	35.46	23.05	12.41	--	--	220	1.4	<0.5	17	39	--	--
10/27/93	35.46	21.78	13.37	--	--	1800	5.5	0.7	68	290	--	--
03/31/94	35.46	23.90	11.56***	--	--	310	1.2	<0.5	19	54	--	--
06/08/94	35.46	23.39	12.07	--	--	300	2.7	1.6	19	48	--	--
09/29/94	35.46	21.62	13.84	--	^	2500	<25	<25	<25	220	--	--
11/09/94	35.46	--	--	--	^^	170	<0.5	0.8	3.3	16	--	--
12/14/94	35.46	23.61	11.85	--	--	510	3.2	1.4	28	60	--	--
03/30/95	35.46	25.85	9.61	--	--	66	<0.5	<0.5	1.1	2.4	--	--
06/30/95	35.46	23.96	11.50	--	--	1500	1.9	8.1	100	300	--	--
09/22/95	35.46	22.88	12.58	--	--	600**	0.7	<0.5	43	110	--	--
12/11/95	35.46	22.91	12.55	--	--	670*	<0.5	<0.5	7.0	13	15	--

CONTINUED ON NEXT PAGE

*Chromatogram pattern indicated an unidentified hydrocarbon.

**Laboratory report indicates uncategorized compounds are not included in gasoline concentration.

***Depth to water measured from top of well vault.

^Detection limit raised due to foaming sample.

^^All site monitoring wells were re-sampled due to an excessive number of foaming samples on the 09/29/94 event.

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	SPH Thickness	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	HVOCs
C-3 (CONT'D)												
03/08/96	35.46	25.80	9.66	--	--	3600	7.5	33	130	400	1100	--
06/21/96	35.46	23.68	11.78	--	--	310	<0.5	<0.5	16	49	57	--
09/27/96	35.46	23.09	12.37	--	--	250	<0.5	<0.5	3.6	9.6	44	--
01/03/97	35.46	25.57	9.89	--	--	170	<0.5	1.2	4.5	15	15	--
03/28/97	35.46	24.50	10.96	--	--	60	<0.5	<0.5	1.7	1.8	23	--
09/30/97	35.46	--	--	--	--	--	--	--	--	--	--	--
03/28/98	35.46	25.74	9.72	--	--	<50	0.88	<0.5	<0.5	<0.5	16	--
09/08/98	35.46	--	--	--	--	--	--	--	--	--	--	--
03/19/99	35.46	25.44	10.02	--	*	<50	<0.5	<0.5	<0.5	0.65	12	--

*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	SPH Thickness	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	HVOCs
C-4												
06/06/89	--	--	--	--	--	<50	<0.05	<1.0	<1.0	<3.0	--	--
12/08/89	--	--	--	--	--	<500	<0.5	<0.5	<0.5	<0.5	--	--
09/07/90	35.78	20.20	15.58	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/20/90	35.78	20.36	15.42	--	--	170	1.0	<0.5	<0.5	4.0	--	--
03/06/91	35.78	22.24	13.54	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/28/91	35.78	21.85	13.93	--	--	<50	<0.5	<0.5	<0.5	<0.8	--	--
09/26/91	35.78	20.14	15.64	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/26/91	35.78	--	15.64	--	--	<50	<0.5	<0.5	<0.5	--	--	--
01/27/92	35.78	21.82	13.96	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/20/92	35.78	24.07	11.71	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/17/92	35.78	21.59	14.19	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/29/92	35.78	20.06	15.72	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/20/93	35.78	24.61	11.17	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/03/93	35.78	24.84	10.94	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/28/93	35.78	23.38	12.40	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
10/27/93	35.23	21.91	13.32	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
03/31/94	35.23	--	--	--	Inaccessible	--	--	--	--	--	--	--
06/08/94	35.23	23.31	11.92	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/29/94	35.23	21.47	13.76	--	*/^	<2500	<25	<25	<25	<25	--	ND***
11/09/94	35.23	--	--	--	**/^	<50	<0.5	<0.5	<0.5	<0.5	--	ND***
12/14/94	35.23	23.44	11.79	--	^^	<50	2.1	3.0	1.9	3.7	--	ND***
03/30/95	35.23	26.22	9.01	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/30/95	35.23	23.79	11.44	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/22/95	35.23	22.72	12.51	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/11/95	35.23	22.61	12.62	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/08/96	35.23	25.60	9.63	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
06/21/96	35.23	23.99	11.24	--	--	<50	<0.5	<0.5	<0.5	0.6	<5.0	--
09/27/96	35.23	22.92	12.31	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
01/03/97	35.23	25.54	9.69	--	--	<50	1.5	7.2	1.3	6.2	<5.0	--
03/28/97	35.23	24.23	11.00	--	--	<50	5.0	8.3	0.8	4.7	<5.0	--
09/30/97	35.23	--	--	--	Discontinued	--	--	--	--	--	--	--

*Detection limit raised due to foaming sample.

**All site monitoring wells were re-sampled due to an excessive number of foaming samples on the 09/29/94 event.

***Other HVOCs were not detected at detection limits of 0.5-1.0 ppb.

^Chloroform detected at <0.5 ppb.

^^Chloroform detected at 1.8 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	SPH Thickness	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	HVOCs
C-5												
06/06/89	--	--	--	--	--	<50	<0.05	<0.05	<1.0	<3.0	--	--
12/08/89	--	--	--	--	--	<500	<0.5	<0.5	<0.5	<0.5	--	--
09/07/90	35.31	20.21	15.10	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/20/90	35.31	20.37	14.94	--	--	80	<0.5	<0.5	<0.5	<0.5	--	--
03/06/91	35.31	22.25	13.06	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/28/91	35.31	21.85	13.46	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/26/91	35.31	20.17	15.14	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/27/92	35.31	22.00	13.31	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/20/92	35.31	24.21	11.10	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/17/92	35.31	21.58	13.73	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/29/92	35.31	20.11	15.20	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/20/93	35.31	24.59	10.72	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/03/93	35.31	24.88	10.43	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
07/28/93	35.31	23.50	11.81	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
10/27/93	34.61	21.93	12.68	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
03/31/94	34.61	23.61	11.00***	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/08/94	34.61	23.35	11.26	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/29/94	34.61	21.51	13.10	--	*	<2500	<25	<25	<25	<25	--	--
11/09/94	34.61	--	--	--	**	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/14/94	34.61	23.24	11.37	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/30/95	34.61	25.64	8.97	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/30/95	34.61	23.78	10.83	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/22/95	34.61	22.72	11.89	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/11/95	34.61	22.83	11.78	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
03/08/96	34.61	25.59	9.02	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
06/21/96	34.61	23.97	10.64	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
09/27/96	34.61	23.04	11.57	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
01/03/97	34.61	25.59	9.02	--	--	<50	0.7	3.2	<0.5	2.2	<5.0	--
03/28/97	34.61	24.23	10.38	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
09/30/97	34.61	--	--	--	Discontinued	--	--	--	--	--	--	--

*Detection limit raised due to foaming sample.

**All site monitoring wells were re-sampled due to an excessive number of foaming samples on the 09/29/94 event.

***Depth to water measured from top of well vault.

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	SPH Thickness	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	HVOCs
C-6												
12/08/89	--	--	--	--	--	<500	<0.5	<0.5	<0.5	<0.5	--	--
09/07/90	36.89	20.06	16.83	--	--	57	<0.5	<0.5	0.6	4.0	--	--
12/20/90	36.89	20.23	16.66	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/06/91	36.89	22.09	14.80	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/28/91	36.89	21.73	15.16	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/26/91	36.89	20.07	16.82	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/27/92	36.89	21.45	15.44	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/20/92	36.89	23.72	13.17	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/17/92	36.89	21.45	15.44	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/29/92	36.89	19.91	16.98	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/20/93	36.89	24.42	12.47	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/03/93	36.89	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/28/93	36.89	23.03	13.86	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
10/27/93	36.57	21.72	14.85	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
03/31/94	36.57	23.57	13.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/08/94	36.57	23.13	13.44	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/29/94	36.57	21.69	14.88	--	*	<2500	<25	<25	<25	<25	--	--
11/09/94	36.57	--	--	--	**	<50	<0.5	0.5	<0.5	<0.5	--	--
12/14/94	36.57	23.58	12.99	--	--	<50	0.9	1.5	1.3	2.6	--	--
03/30/95	36.57	25.80	10.77	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/30/95	36.57	23.95	12.62	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/22/95	36.57	22.92	13.65	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/11/95	36.57	22.89	13.68	--	--	140***	<0.5	<0.5	<0.5	<0.5	<0.5	--
03/08/96	36.57	25.84	10.73	--	--	<50	<0.5	0.6	<0.5	<0.5	<5.0	--
06/21/96	36.57	24.16	12.41	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
09/27/96	36.57	23.10	13.47	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
01/03/97	36.57	25.57	11.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
03/28/97	36.57	24.51	12.06	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
09/30/97	36.57	--	--	--	Discontinued	--	--	--	--	--	--	--

*Detection limit raised due to foaming sample.

**All site monitoring wells were re-sampled due to an excessive number of foaming samples on the 09/29/94 event.

***Chromatogram pattern indicated 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	SPH Thickness	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	HVOCs
C-7												
12/08/89	--	--	--	--	--	1700	32	12	17	150	--	--
09/07/90	32.75	19.73	13.02	--	--	880	84	23	46	180	--	--
12/20/90	32.75	20.47	12.28	--	--	560	24	3.0	19	21	--	--
03/06/91	32.75	15.83	16.92	--	--	240	25	2.0	4.0	26	--	--
06/28/91	32.75	21.44	11.31	--	--	2400	130	13	82	220	--	--
09/26/91	32.75	20.47	12.28	--	--	8100	47	35	350	1200	--	--
01/27/92	32.75	21.32	11.43	--	--	12,000	170	40	420	830	--	--
04/20/92	32.75	23.47	9.28	--	--	1200	80	11	90	110	--	--
07/17/92	32.75	21.26	11.49	--	--	2400	20	7.4	95	200	--	--
10/29/92	32.75	19.70	13.05	--	--	69	1.3	<0.5	3.8	7.2	--	--
01/20/93	32.75	24.06	8.69	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/03/93	32.75	24.07	8.68	--	--	2400	29	8.6	140	210	--	--
07/28/93	32.75	22.76	9.99	--	--	3600	38	16	290	920	--	--
10/27/93	32.32	21.60	10.72	--	--	22,000	23	26	990	2600	--	--
03/31/94	32.32	23.21	9.11	--	--	2300	45	7.0	130	190	--	--
06/08/94	32.32	23.10	9.22	--	--	6900	46	11	380	820	--	--
09/29/94	32.32	21.00	11.32	--	--	11,000	10	11	620	810	--	--
11/09/94	32.32	--	--	--	**	7800	33	18	570	1100	--	--
12/14/94	32.32	23.33	8.99	--	--	7700	63	16	140	1200	--	--
03/30/95	32.32	25.04	7.28	--	--	4100	64	18	170	280	--	--
06/30/95	32.32	23.25	9.07	--	--	1200	31	3.7	21	18	--	--
09/22/95	32.32	22.27	10.05	--	--	1800	64	5.7	30	38	--	--
12/11/95	32.32	23.02	9.30	--	--	14,000	80	6.1	91	120	70	--
03/08/96	32.32	24.99	7.33	--	--	2300	57	8.4	110	180	37	--
06/21/96	32.32	23.47	8.85	--	--	1100	37	3.2	21	29	9.0	--
09/27/96	32.32	23.21	9.11	--	--	10,000	150	30	270	670	45	--
01/03/97	32.32	24.83	7.49	--	--	1800	35	<0.5	34	72	15	--
03/28/97	32.32	23.75	8.57	--	--	2200	38	4.1	31	56	19	--
09/30/97	32.32	--	--	--	--	--	--	--	--	--	--	--
03/28/98	32.32	24.98	7.34	--	--	2100*	28	7.8	70	170	<25	--
09/08/98	32.32	--	--	--	--	--	--	--	--	--	--	--
03/19/99	32.32	24.61	7.71	--	***/ ^	5300	63	24	280	370	67	--

*Chromatogram pattern indicated an unidentified hydrocarbon.

**All site monitoring wells were re-sampled due to an excessive number of foaming samples on the 09/29/94 event.

***MTBE value is reported from a re-analyzation on 04/01/99.

^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	SPH Thickness	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	HVOCs
C-8												
12/08/89	--	--	--	--	--	4800	62	11	95	180	--	--
09/07/90	33.82	19.50	14.32	--	--	3700	170	31	180	270	--	--
12/20/90	33.82	19.61	14.20	--	--	3900	120	20	130	180	--	--
03/06/91	33.82	19.02	14.80	--	--	1200	45	6.0	34	57	--	--
06/28/91	33.82	21.17	12.65	--	--	6900	180	46	340	640	--	--
09/26/91	33.82	19.53	14.29	--	--	1400	66	9.8	38	40	--	--
01/27/92	33.82	21.22	12.60	--	--	3600	100	26	170	260	--	--
04/20/92	33.82	23.46	10.36	--	--	2600	110	32	180	260	--	--
07/17/92	33.82	20.94	12.88	--	--	1100	34	5.9	35	52	--	--
10/29/92	33.82	19.43	14.39	--	--	820	29	4.8	23	27	--	--
01/20/93	33.82	23.80	10.02	--	--	6000	81	22	200	310	--	--
05/03/93	33.82	24.07	9.75	--	--	11,000	75	96	880	2600	--	--
07/28/93	33.82	22.68	11.14	--	--	2800	60	13	92	150	--	--
10/27/93	33.25	21.24	12.01	--	--	2700	49	17	60	90	--	--
03/31/94	33.25	22.98	10.27	--	--	190	8.6	1.7	9.1	11	--	--
06/08/94	33.25	22.69	10.56	--	--	2800	52	110	78	110	--	--
09/29/94	33.25	20.83	12.42	--	--	3700	120	20	120	85	--	--
11/09/94	33.25	--	--	--	**	3200	82	44	160	110	--	--
12/14/94	33.25	22.74	10.51	--	--	5300	140	30	170	310	--	--
03/30/95	33.25	24.81	8.44	--	--	3900	86	19	180	210	--	--
06/30/95	33.25	23.11	10.14	--	--	1500	75	21	72	72	--	--
09/22/95	33.25	22.05	11.20	--	--	3400	94	24	110	110	--	--
12/11/95	33.25	22.26	10.99	--	--	7500	100	<0.5	160	120	130	--
03/08/96	33.25	24.79	8.46	--	--	3600	93	8.9	110	88	82	--
06/21/96	33.25	23.28	9.97	--	--	3200	69	6.8	100	88	19	--
09/27/96	33.25	22.47	10.78	--	--	7000	98	12	150	130	53	--
01/03/97	33.25	24.43	8.82	--	--	5700	43	9.3	110	95	17	--
03/28/97	33.25	23.60	9.65	--	--	4900	52	4.7	70	47	50	--
09/30/97	33.25	--	--	--	--	--	--	--	--	--	--	--
03/28/98	33.25	24.78	8.47	--	--	3300*	33	4.2	110	61	<25	--
09/08/98	33.25	--	--	--	--	--	--	--	--	--	--	--
03/19/99	33.25	24.34	8.91	--	***/ ^	2600	34	16	34	19	76	--

*Chromatogram pattern indicated an unidentified hydrocarbon.

**All site monitoring wells were re-sampled due to an excessive number of foaming samples on the 09/29/94 event.

***MTBE value is reported from a re-analyzation on 04/01/99.

^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	SPH Thickness	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	HVOCs
C-9												
09/07/90	33.43	19.37	14.06	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/20/90	33.43	19.40	14.03	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/06/91	33.43	21.31	12.12	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/28/91	33.43	21.02	12.41	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/26/91	33.43	19.41	14.02	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/27/92	33.43	20.90	12.53	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/20/92	33.43	23.21	10.22	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/17/92	33.43	20.79	12.64	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/29/92	33.43	19.23	14.20	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/20/93	33.43	23.71	9.72	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/03/93	33.43	23.66	9.55	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
07/28/93	33.43	22.45	10.98	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
10/27/93	32.97	20.99	11.98	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
03/31/94	32.97	22.80	10.17	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/08/94	32.97	22.44	10.53	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/29/94	32.97	20.57	12.40	--	*	<5000	<50	<50	<50	<50	--	--
11/09/94	32.97	--	--	--	**	<50	<0.5	<0.5	<0.5	0.7	--	--
12/14/94	32.97	22.48	10.49	--	--	69	1.1	2.2	3.4	7.8	--	--
03/30/95	32.97	24.77	8.20	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/30/95	32.97	23.00	9.97	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/22/95	32.97	21.90	11.07	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/11/95	32.97	21.89	11.08	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
03/08/96	32.97	24.77	8.20	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
06/21/96	32.97	23.16	9.81	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
09/27/96	32.97	22.06	10.91	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
01/03/97	32.97	24.30	8.67	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
03/28/97	32.97	23.50	9.47	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
09/30/97	32.97	21.36	11.61	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
03/28/98	32.97	24.71	8.26	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
09/08/98	32.97	22.73	10.24	--	--	<50	5.7	1.4	1.4	1.8	4.9	--
03/19/99	32.97	24.27	8.70	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--

*Detection limit raised due to foaming sample.

**All site monitoring wells were re-sampled due to an excessive number of foaming samples on the 09/29/94 event.

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	SPH Thickness	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	HVOCs
C-10												
09/07/90	31.63	19.14	12.49	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/20/90	31.63	19.27	12.36	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/06/91	31.63	21.18	10.45	--	--	<50	<0.5	0.8	<0.5	0.8	--	--
06/28/91	31.63	20.69	10.74	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/26/91	31.63	19.21	12.42	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/27/92	31.63	20.79	10.84	--	--	<50	<0.5	1.3	<0.5	<0.5	--	--
01/27/92	31.63	--	--	--	Duplicate	<50	<0.5	1.3	<0.5	<0.5	--	--
04/20/92	31.63	23.06	8.55	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/17/92	31.63	20.61	11.02	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/29/92	31.63	19.23	12.40	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/20/93	31.63	23.49	8.14	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/03/93	31.63	23.71	7.92	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
07/28/93	31.63	22.27	9.36	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
10/27/93	31.16	20.86	10.30	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
03/31/94	31.16	22.71	8.45	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/08/94	31.16	22.31	8.85	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/29/94	31.16	20.46	10.70	--	*	<5000	<50	<50	<50	<50	--	--
11/09/94	31.16	--	--	--	**	<50	<0.5	1.4	0.8	1.2	--	--
12/14/94	31.16	22.55	8.61	--	--	110	3.9	5.4	4.3	11	--	--
03/30/95	31.16	24.51	6.65	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/30/95	31.16	22.86	8.30	--	--	<50	1.5	1.5	<0.5	2.2	--	--
09/22/95	31.16	21.75	9.41	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/11/95	31.16	21.89	9.27	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
03/08/96	31.16	24.53	6.63	--	--	<50	<0.5	<0.5	<0.5	0.5	<5.0	--
06/21/96	31.16	23.04	8.12	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
09/27/96	31.16	21.95	9.21	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
01/03/97	31.16	23.84	7.32	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
03/28/97	31.16	23.34	7.82	--	--	<50	1.2	1.8	<0.5	0.8	<5.0	--
09/30/97	31.16	21.34	9.82	--	--	<250***	<2.5	<2.5	<2.5	<2.5	<2.5	--
03/28/98	31.16	24.60	6.56	--	--	<50	<0.5	0.52	<0.5	<0.5	<2.5	--
09/08/98	31.16	22.65	8.51	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
03/19/99	31.16	24.00	7.16	--	∩ ∩	<50	<0.5	<0.5	<0.5	<0.5	9.2	--

*Detection limit raised due to foaming sample.

**All site monitoring wells were re-sampled due to an excessive number of foaming samples on the 09/29/94 event.

***Laboratory report indicates sample diluted due to foaming.

∩MTBE value is reported from a re-analyzation on 04/01/99.

∩∩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	SPH Thickness	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	HVOCs
C-11												
09/07/90	31.58	19.36	12.22	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/20/90	31.58	19.50	12.08	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/06/91	31.58	15.43	16.15	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/28/91	31.58	21.06	10.52	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/26/91	31.58	19.38	12.20	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/27/92	31.58	20.85	10.73	--	--	<50	<0.5	0.8	<0.5	<0.5	--	--
04/20/92	31.58	23.02	8.56	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/17/92	31.58	20.80	10.78	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/29/92	31.58	19.51	12.07	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/20/93	31.58	21.61	7.97	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/03/93	31.58	23.63	7.95	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
07/28/93	31.58	22.27	9.31	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
10/27/93	31.23	21.06	10.17	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
03/31/94	31.23	22.80	8.43	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/08/94	31.23	22.47	8.76	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/29/94	31.23	20.69	10.54	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/9/94	--	--	--	--	--	<50	<0.5	0.6	<0.5	0.7	--	--
12/14/94	31.23	22.73	8.50	--	--	51	1.1	1.7	1.6	4.0	--	--
03/30/95	31.23	24.38	6.85	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/30/95	31.23	22.89	8.34	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/22/95	31.23	21.93	9.30	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/11/95	31.23	22.22	9.01	--	--	<50	<0.5	<0.5	<0.5	1.1	1.1	--
03/08/96	31.23	24.33	6.90	--	--	<50	<0.5	0.6	<0.5	1.6	<5.0	--
06/21/96	31.23	23.13	8.10	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
09/27/96	31.23	22.16	9.07	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
01/03/97	31.23	24.10	7.13	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
03/28/97	31.23	21.40	9.83	--	--	120	12	20	2.3	14	<5.0	--
09/30/97	31.23	21.56	9.67	--	--	<50	0.7	0.8	<0.5	0.6	<5.0	--
03/28/98	31.23	24.40	6.83	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
09/08/98	31.23	22.72	8.51	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
03/19/99	31.23	24.06	7.17	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	SPH Thickness	Notes	TPH- Gasoline	Benzene	Toluene	Ethyl- Benzene	Xylene	MTBE	HVOCs
TRIP BLANK												
09/07/90	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/20/90	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/06/91	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/28/91	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/26/91	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/27/92	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/20/92	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
07/17/92	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/29/92	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/20/93	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/03/93	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
07/28/93	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
10/27/93	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
03/31/94	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/08/94	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/09/94	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/14/94	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/30/95	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/30/95	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/22/95	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/11/95	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
03/08/96	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
06/21/96	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
09/27/96	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
01/03/97	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
03/28/97	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
09/30/97	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
03/28/98	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
09/08/98	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
03/19/99	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--

Cumulative Table of Well Data and Analytical Results

ADDITIONAL ANALYSES

Analytical values are in parts per billion (ppb)

DATE	Notes	Ethanol	t- Butanol	MTBE	DIPE	ETBE	TAME
C-1							
3/19/99	--	<2500	<500	270	<10	<10	<10
C-2							
3/19/99	--	<2500	<500	330	<10	<10	<10
C-3							
3/19/99	--	<500	<100	8.0	<2.0	<2.0	<2.0
C-7							
3/19/99	--	<500	<100	<2.0	<2.0	<2.0	<2.0

Cumulative Table of Well Data and Analytical Results

ADDITIONAL ANALYSES

Analytical values are in parts per billion (ppb)

DATE	Notes	Ethanol	t- Butanol	MTBE	DIPE	ETBE	TAME
C-8							
3/19/99	--	<500	<100	10	<2.0	<2.0	<2.0
C-10							
3/19/99	--	<500	<100	6.7	<2.0	<2.0	<2.0

NOTES: Blaine Tech Services, Inc. began routine monitoring of the groundwater wells at this site March 19, 1999. Earlier field data and analytical results were drawn from the September 8, 1998 Gettler-Ryan, Inc. report. Analytical results and groundwater elevation data prior to 1995 were compiled from the quarterly groundwater monitoring reports prepared by Sierra Environmental Services. Well head elevation for all wells prior to October 27, 1993 taken from top of well box. After October 27, 1993, well head elevation taken from top of casing, except for well C-3, which is still measured from top of well box. When separate-phase hydrocarbons are present, ground water elevation is adjusted using the relation:
 Corrected ground water elevation = Top-of-casing elevation - depth to water + (0.8 x hydrocarbon thickness).
 The assumed specific gravity for free-phase hydrocarbons is 0.8.

ABBREVIATIONS:

DIPE = Di-Isopropyl Ether
 ETBE = Ethyl t-Butyl Ether
 HVOC = Halogenated Volatile Organic Compounds
 MTBE = Methyl tertiary-butyl ether
 ND = Not detected at or above the minimum quantitation limit. See laboratory reports for minimum quantitation limits.
 SPH = Separate-phase Hydrocarbons
 TAME = t-Amyl Methyl Ether
 TPH = Total Petroleum Hydrocarbons

Analytical Appendix



Sequoia Analytical

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Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112
Attention: Christine Lillie

Client Project ID: Chevron #9-0504, San Lorenzo
Sample Matrix: Water
Analysis Method: EPA 5030/8015 Mod./8020
First Sample #: 903-2278

Sampled: Mar 19, 1999
Received: Mar 22, 1999
Reported: Apr 5, 1999

QC Batch Number: GC033099 GC040199 GC033099 GC033099 GC033099 GC033099
802009A 802002A 802009A 802009A 802009A 802009A

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX / MTBE

Analyte	Reporting Limit µg/L	Sample I.D. 903-2278 C-1	Sample I.D. 903-2279 C-2	Sample I.D. 903-2280 C-3	Sample I.D. 903-2281 C-7 *	Sample I.D. 903-2282 C-8 *	Sample I.D. 903-2283 C-9
Purgeable Hydrocarbons	50	320	1,400	N.D.	5,300	2,600	N.D.
Benzene	0.50	N.D.	15	N.D.	63	34	N.D.
Toluene	0.50	N.D.	N.D.	N.D.	24	16	N.D.
Ethyl Benzene	0.50	8.5	56	N.D.	280	34	N.D.
Total Xylenes	0.50	2.5	130	0.65	370	19	N.D.
MTBE	2.5	350	460	12	67	76	N.D.
Chromatogram Pattern:		Gasoline	Gasoline	--	Gasoline	Gasoline	--

Quality Control Data

Report Limit Multiplication Factor:	1.0	20	1.0	20	20	1.0
Date Analyzed:	3/30/99	4/1/99	3/30/99	3/30/99	3/30/99	3/30/99
Instrument Identification:	HP-9	HP-2	HP-9	HP-9	HP-9	HP-9
Surrogate Recovery, %: (QC Limits = 70-130%)	82	102	92	90	97	90

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Please Note:

* MTBE value is reported from a re-analysis performed on 4/1/99 on HP-2.

Melissa A. Brewer
Project Manager





Sequoia Analytical

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Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112
Attention: Christine Lillie

Client Project ID: Chevron #9-0504, San Lorenzo
Sample Matrix: Water
Analysis Method: EPA 5030/8015 Mod./8020
First Sample #: 903-2284

Sampled: Mar 19, 1999
Received: Mar 22, 1999
Reported: Apr 5, 1999

QC Batch Number: GC033099 GC032999 GC033099

802009A 802002A 802002A

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX / MTBE

Analyte	Reporting Limit µg/L	Sample I.D. 903-2284 C-10 *	Sample I.D. 903-2285 C-11	Sample I.D. 903-2286 TB
Purgeable Hydrocarbons	50	N.D.	N.D.	N.D.
Benzene	0.50	N.D.	N.D.	N.D.
Toluene	0.50	N.D.	N.D.	N.D.
Ethyl Benzene	0.50	N.D.	N.D.	N.D.
Total Xylenes	0.50	N.D.	N.D.	N.D.
MTBE	2.5	9.2	N.D.	N.D.
Chromatogram Pattern:		--	--	--

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0
Date Analyzed:	3/30/99	3/29/99	3/30/99
Instrument Identification:	HP-9	HP-2	HP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	92	103	95

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Please Note:

* MTBE value is reported from a re-analysis performed on 4/1/99 on HP-2.

Melissa A. Brewer

Melissa A. Brewer
Project Manager





Sequoia Analytical

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Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112
Attention: Christine Lillie

Client Project ID: Chevron #9-0504, San Lorenzo
Sample Descript: Water, C-1
Analysis Method: EPA 8260
Lab Number: 903-2278

Sampled: Mar 19, 1999
Received: Mar 22, 1999
Analyzed: Apr 2, 1999
Reported: Apr 5, 1999

QC Batch Number: MS0401998260S2A

Instrument ID: GC/MS-2

OXYGENATED COMPOUNDS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Ethanol.....	2500	N.D.
t-Butanol.....	500	N.D.
Methyl t-Butyl Ether (MTBE).....	10	270
Di-Isopropyl Ether (DIPE).....	10	N.D.
Ethyl t-Butyl Ether (ETBE).....	10	N.D.
t-Amyl Methyl Ether (TAME).....	10	N.D.

Surrogates	Control Limit %	% Recovery
Dibromofluoromethane.....	50 150.....	91
1,2-Dichloroethane-d4.....	50 150.....	74

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer
Project Manager





Sequoia Analytical

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Blaine Tech Services	Client Project ID: Chevron #9-0504, San Lorenzo	Sampled: Mar 19, 1999
1680 Rogers Avenue	Sample Descript: Water, C-2	Received: Mar 22, 1999
San Jose, CA 95112	Analysis Method: EPA 8260	Analyzed: Apr 2, 1999
Attention: Christine Lillie	Lab Number: 903-2279	Reported: Apr 5, 1999

QC Batch Number: MS0401998260S2A

Instrument ID: GC/MS-2

OXYGENATED COMPOUNDS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Ethanol.....	2500	N.D.
t-Butanol.....	500	N.D.
Methyl t-Butyl Ether (MTBE).....	10	330
Di-Isopropyl Ether (DIPE).....	10	N.D.
Ethyl t-Butyl Ether (ETBE).....	10	N.D.
t-Amyl Methyl Ether (TAME).....	10	N.D.

Surrogates	Control Limit %	% Recovery	
Dibromofluoromethane.....	50	150.....	92
1,2-Dichloroethane-d4.....	50	150.....	78

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer

Melissa A. Brewer
Project Manager





Sequoia Analytical

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Blaine Tech Services Client Project ID: Chevron #9-0504, San Lorenzo
1680 Rogers Avenue Sample Descript: Water, C-3
San Jose, CA 95112 Analysis Method: EPA 8260
Attention: Christine Lillie Lab Number: 903-2280
QC Batch Number: MS0401998260S2A
Instrument ID: GC/MS-2

Sampled: Mar 19, 1999
Received: Mar 22, 1999
Analyzed: Apr 2, 1999
Reported: Apr 5, 1999

OXYGENATED COMPOUNDS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Ethanol.....	500	N.D.
t-Butanol.....	100	N.D.
Methyl t-Butyl Ether (MTBE).....	2.0	8.0
Di-Isopropyl Ether (DIPE).....	2.0	N.D.
Ethyl t-Butyl Ether (ETBE).....	2.0	N.D.
t-Amyl Methyl Ether (TAME).....	2.0	N.D.

Surrogates	Control Limit %	% Recovery
Dibromofluoromethane.....	50 150	91
1,2-Dichloroethane-d4.....	50 150	77

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

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer
Project Manager





Sequoia Analytical

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FAX (707) 792-0342

Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112
Attention: Christine Lillie

Client Project ID: Chevron #9-0504, San Lorenzo
Sample Descript: Water, C-7
Analysis Method: EPA 8260
Lab Number: 903-2281

Sampled: Mar 19, 1999
Received: Mar 22, 1999
Analyzed: Apr 2, 1999
Reported: Apr 5, 1999

QC Batch Number: MS0401998260S2A

Instrument ID: GC/MS-2

OXYGENATED COMPOUNDS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Ethanol.....	500	N.D.
t-Butanol.....	100	N.D.
Methyl t-Butyl Ether (MTBE).....	2.0	N.D.
Di-Isopropyl Ether (DIPE).....	2.0	N.D.
Ethyl t-Butyl Ether (ETBE).....	2.0	N.D.
t-Amyl Methyl Ether (TAME).....	2.0	N.D.

Surrogates	Control Limit %	% Recovery
Dibromofluoromethane.....	50	150..... 87
1,2-Dichloroethane-d4.....	50	150..... 86

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

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer
Project Manager





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Blaine Tech Services Client Project ID: Chevron #9-0504, San Lorenzo Sampled: Mar 19, 1999
1680 Rogers Avenue Sample Descript: Water, C-8 Received: Mar 22, 1999
San Jose, CA 95112 Analysis Method: EPA 8260 Analyzed: Apr 2, 1999
Attention: Christine Lillie Lab Number: 903-2282 Reported: Apr 5, 1999

QC Batch Number: MS0401998260S2A

Instrument ID: GC/MS-2

OXYGENATED COMPOUNDS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Ethanol.....	500	N.D.
t-Butanol.....	100	N.D.
Methyl t-Butyl Ether (MTBE).....	2.0	10
Di-Isopropyl Ether (DIPE).....	2.0	N.D.
Ethyl t-Butyl Ether (ETBE).....	2.0	N.D.
t-Amyl Methyl Ether (TAME).....	2.0	N.D.

Surrogates	Control Limit %	% Recovery
Dibromofluoromethane.....	50 150.....	88
1,2-Dichloroethane-d4.....	50 150.....	84

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

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer

Melissa A. Brewer
Project Manager





**Sequoia
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FAX (707) 792-0342

Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112
Attention: Christine Lillie

Client Project ID: Chevron #9-0504, San Lorenzo
Sample Descript: Water, C-10
Analysis Method: EPA 8260
Lab Number: 903-2284

Sampled: Mar 19, 1999
Received: Mar 22, 1999
Analyzed: Apr 2, 1999
Reported: Apr 5, 1999

QC Batch Number: MS0401998260S2A

Instrument ID: GC/MS-2

OXYGENATED COMPOUNDS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Ethanol.....	500	N.D.
t-Butanol.....	100	N.D.
Methyl t-Butyl Ether (MTBE).....	2.0	6.7
Di-Isopropyl Ether (DIPE).....	2.0	N.D.
Ethyl t-Butyl Ether (ETBE).....	2.0	N.D.
t-Amyl Methyl Ether (TAME).....	2.0	N.D.

Surrogates	Control Limit %	% Recovery
Dibromofluoromethane.....	50 150.....	93
1,2-Dichloroethane-d4.....	50 150.....	77

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

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer

Melissa A. Brewer
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Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112
Attention: Christine Lillie

Client Project ID: Chevron #9-0504, San Lorenzo
Matrix: Liquid

QC Sample Group: 9032278-286

Reported: Apr 5, 1999

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	MTBE
QC Batch#:	GC032999 802002A	GC032999 802002A	GC032999 802002A	GC032999 802002A	MS040199 8260S2A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8260
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	C. Westwater	C. Westwater	C. Westwater	C. Westwater	N. Nelson
MS/MSD #:	9032212	9032212	9032212	9032212	9032599
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/29/99	3/29/99	3/29/99	3/29/99	4/1/99
Analyzed Date:	3/29/99	3/29/99	3/29/99	3/29/99	4/1/99
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2	GC/MS-2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	50 µg/L
Result:	21	20	19	67	48
MS % Recovery:	105	100	95	112	96
Dup. Result:	21	20	20	66	51
MSD % Recov.:	105	100	100	110	102
RPD:	0.0	0.0	5.1	1.5	6.1
RPD Limit:	0-20	0-20	0-20	0-20	0-25

LCS #:	2LCS032999	2LCS032999	2LCS032999	2LCS032999	LCS040199
Prepared Date:	3/29/99	3/29/99	3/29/99	3/29/99	4/1/99
Analyzed Date:	3/29/99	3/29/99	3/29/99	3/29/99	4/1/99
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2	GC/MS-2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	50 µg/L
LCS Result:	21	20	21	67	43
LCS % Recov.:	105	100	105	112	86

MS/MSD LCS Control Limits	70-130	70-130	70-130	70-130	70-130
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Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

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

SEQUOIA ANALYTICAL, #1271

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Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112
Attention: Christine Lillie

Client Project ID: Chevron #9-0504, San Lorenzo
Matrix: Liquid

QC Sample Group: 9032278-286

Reported: Apr 5, 1999

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC033099 802002A	GC033099 802002A	GC033099 802002A	GC033099 802002A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	C. Westwater	C. Westwater	C. Westwater	C. Westwater
MS/MSD #:	9032062	9032062	9032062	9032062
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/30/99	3/30/99	3/30/99	3/30/99
Analyzed Date:	3/30/99	3/30/99	3/30/99	3/30/99
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Result:	17	15	17	54
MS % Recovery:	85	75	85	90
Dup. Result:	19	18	18	61
MSD % Recov.:	95	90	90	102
RPD:	11	18	5.7	12
RPD Limit:	0-20	0-20	0-20	0-20

LCS #:	2LCS033099	2LCS033099	2LCS033099	2LCS033099
Prepared Date:	3/30/99	3/30/99	3/30/99	3/30/99
Analyzed Date:	3/30/99	3/30/99	3/30/99	3/30/99
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
LCS Result:	20	19	19	65
LCS % Recov.:	100	95	95	108

MS/MSD LCS Control Limits	70-130	70-130	70-130	70-130
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Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

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

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer

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Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112
Attention: Christine Lillie

Client Project ID: Chevron #9-0504, San Lorenzo
Matrix: Liquid

QC Sample Group: 9032278-286

Reported: Apr 5, 1999

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC033099 802009A	GC033099 802009A	GC033099 802009A	GC033099 802009A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	C. Westwater	C. Westwater	C. Westwater	C. Westwater
MS/MSD #:	9032063	9032063	9032063	9032063
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/30/99	3/30/99	3/30/99	3/30/99
Analyzed Date:	3/30/99	3/30/99	3/30/99	3/30/99
Instrument I.D.#:	HP-9	HP-9	HP-9	HP-9
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Result:	20	21	21	63
MS % Recovery:	100	105	105	105
Dup. Result:	20	21	21	63
MSD % Recov.:	100	105	105	105
RPD:	0.0	0.0	0.0	0.0
RPD Limit:	0-20	0-20	0-20	0-20

LCS #:	9LCS033099	9LCS033099	9LCS033099	9LCS033099
Prepared Date:	3/30/99	3/30/99	3/30/99	3/30/99
Analyzed Date:	3/30/99	3/30/99	3/30/99	3/30/99
Instrument I.D.#:	HP-9	HP-9	HP-9	HP-9
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
LCS Result:	20	21	21	63
LCS % Recov.:	100	105	105	105

MS/MSD LCS Control Limits	70-130	70-130	70-130	70-130
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Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

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

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer

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Sequoia Analytical

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Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112
Attention: Christine Lillie

Client Project ID: Chevron #9-0504, San Lorenzo
Matrix: Liquid

QC Sample Group: 9032278-286

Reported: Apr 5, 1999

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC040199 802002A	GC040199 802002A	GC040199 802002A	GC040199 802002A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	C. Westwater	C. Westwater	C. Westwater	C. Westwater
MS/MSD #:	9033002	9033002	9033002	9033002
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	4/1/99	4/1/99	4/1/99	4/1/99
Analyzed Date:	4/1/99	4/1/99	4/1/99	4/1/99
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Result:	19	18	19	60
MS % Recovery:	95	90	95	100
Dup. Result:	16	15	16	50
MSD % Recov.:	80	75	80	83
RPD:	17	18	17	18
RPD Limit:	0-20	0-20	0-20	0-20

LCS #:	2LCS040199	2LCS040199	2LCS040199	2LCS040199
Prepared Date:	4/1/99	4/1/99	4/1/99	4/1/99
Analyzed Date:	4/1/99	4/1/99	4/1/99	4/1/99
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
LCS Result:	19	18	19	60
LCS % Recov.:	95	90	95	100

MS/MSD LCS Control Limits	70-130	70-130	70-130	70-130
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Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

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

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer

Melissa A. Brewer
Project Manager



Field Data Sheets

CHEVRON WELL MONITORING DATA SHEET

Project #: <u>990319-K1</u>	Station #: <u>9-0504</u>
Sampler: <u>Mark</u>	Date: <u>3/19/99</u>
Well I.D.: <u>C-2</u>	Well Diameter: 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8 <input type="radio"/>
Total Well Depth: <u>18.29</u>	Depth to Water: <u>8.45</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI <input type="checkbox"/> HACH <input type="checkbox"/>

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:	Sampling Method:
Bailer	Bailer
Disposable Bailer	Disposable Bailer <input checked="" type="checkbox"/>
Middleburg	Extraction Port
Electric Submersible	Other: _____
Extraction Pump	
Other: _____	

<u>3.6</u>	X	<u>3</u>	=	<u>10.8</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
<u>1143</u>	<u>58.9</u>	<u>7.6</u>	<u>448</u>	<u>4</u>	<u>odor/light sheen</u>
<u>1144</u>	<u>60.0</u>	<u>7.4</u>	<u>441</u>	<u>7</u>	
<u>1145</u>	<u>60.3</u>	<u>7.4</u>	<u>433</u>	<u>11</u>	

Did well dewater? Yes No Gallons actually evacuated: 11

Sampling Time: 1150 Sampling Date: 3/19/99

Sample I.D.: C-2 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:	mg/L
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O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV
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CHEVRON WELL MONITORING DATA SHEET

Project #: 990319-K1	Station #: 9-0304
Sampler: Mark	Date: 3/19/99
Well I.D.: C-3	Well Diameter: 2 (3) 4 6 8
Total Well Depth: 19.25	Depth to Water: 10.02
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
X 3"	0.37	6"	1.47
4"	0.65	Other	radius ² * 0.163

Purge Method: Bailer Sampling Method: Bailer
 Disposable Bailer Disposable Bailer X
 Middleburg Extraction Port
 Electric Submersible Other: _____
 Extraction Pump
 Other: _____

3.4	X	3	=	10.2	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1100	62.3	7.2	1359	3.9	
1110	63.0	7.1	1369	7.0	
1114	62.8	7.1	1381	10.5	

Did well dewater? Yes No Gallons actually evacuated: 10.5

Sampling Time: 1120 Sampling Date: 3/19/99

Sample I.D.: C-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:	mg/L
	Pre-purge:	mV	Post-purge:	mV

CHEVRON WELL MONITORING DATA SHEET

Project #: <u>990319-K1</u>	Station #: <u>9-0304</u>
Sampler: <u>Mark</u>	Date: <u>3/19/99</u>
Well I.D.: <u>C-7</u>	Well Diameter: <u>(3)</u> 3 4 6 8 <u> </u>
Total Well Depth: <u>24.75</u>	Depth to Water: <u>7.71</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd): YSI HACH

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

Purge Method: Bailer Sampling Method: Bailer

Disposable Bailer Disposable Bailer
 Middleburg Extraction Port
 Electric Submersible Other: _____
 Extraction Pump

Other: _____

<u>2.7</u>	X	<u>3</u>	=	<u>8.1</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
<u>1159</u>	<u>60.6</u>	<u>6.9</u>	<u>1003</u>	<u>2.75</u>	<u>strong odor</u>
<u>1202</u>	<u>61.5</u>	<u>6.8</u>	<u>1052</u>	<u>5.5</u>	
<u>1205</u>	<u>62.1</u>	<u>6.8</u>	<u>1106</u>	<u>8.25</u>	
					<u>redox → HCL</u>

Did well dewater? Yes (No) Gallons actually evacuated: 8.25

Sampling Time: 1210 Sampling Date: 3/19/99

Sample I.D.: C-7 Laboratory: (Sequon) 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: mg/L

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

CHEVRON WELL MONITORING DATA SHEET

Project #: <u>990319-K1</u>	Station #: <u>9-0304</u>
Sampler: <u>Mark</u>	Date: <u>3/19/99</u>
Well I.D.: <u>C-8</u>	Well Diameter: <u>(2)</u> 3 4 6 8 _____
Total Well Depth: <u>24.74</u>	Depth to Water: <u>8.91</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

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

Purge Method: <u>Bailer</u> Disposable Bailer <u>Middleburg</u> Electric Submersible Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> Disposable Bailer X Extraction Port Other: _____
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<u>2.5</u>	X	<u>3</u>	=	<u>7.5</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
<u>1220</u>	<u>63.9</u>	<u>7.0</u>	<u>1337</u>	<u>2.5</u>	<u>OK</u>
<u>1223</u>	<u>64.5</u>	<u>7.0</u>	<u>1382</u>	<u>5.0</u>	
<u>1226</u>	<u>65.3</u>	<u>6.9</u>	<u>1391</u>	<u>7.5</u>	

Did well dewater? Yes No Gallons actually evacuated: 7.5

Sampling Time: 1230 Sampling Date: 3/19/99

Sample I.D.: C-8 Laboratory: Sequon 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:	mg/L
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O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV
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CHEVRON WELL MONITORING DATA SHEET

Project #: 990319-K1	Station #: 9-0304
Sampler: Mark	Date: 3/19/99
Well I.D.: C-10	Well Diameter: <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8 <input type="checkbox"/> _____
Total Well Depth: 24.55	Depth to Water: 7.16
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

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

Purge Method: Bailer Sampling Method: Bailer

Disposable Bailer Disposable Bailer
 Middleburg Extraction Port
 Electric Submersible
 Extraction Pump Other: _____
 Other: _____

2.7	x	3	=	8.1	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1023	62.1	7.2	1162	2.75	
1026	62.9	7.2	1047	5.50	
1029	63.2	7.1	1014	8.25	

Did well dewater? Yes No Gallons actually evacuated: 8.25

Sampling Time: 1035 Sampling Date: 3/19/99

Sample I.D.: C-10 Laboratory: Sequon 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:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

CHEVRON WELL MONITORING DATA SHEET

Project #: <u>990319-K1</u>	Station #: <u>9-0304</u>
Sampler: <u>Mark</u>	Date: <u>3/19/99</u>
Well I.D.: <u>C-11</u>	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth: <u>24.57</u>	Depth to Water: <u>7.17</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

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

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

<u>2.7</u>	X	<u>3</u>	=	<u>8.1</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
<u>1043</u>	<u>60.5</u>	<u>7.3</u>	<u>1126</u>	<u>2.75</u>	
<u>1046</u>	<u>61.2</u>	<u>7.2</u>	<u>1148</u>	<u>5.50</u>	
<u>1049</u>	<u>62.0</u>	<u>7.2</u>	<u>1161</u>	<u>8.25</u>	

Did well dewater? Yes No Gallons actually evacuated: 8.25

Sampling Time: 1055 Sampling Date: 3/19/99

Sample I.D.: C-11 Laboratory: Sequon 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:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV