

July 19, 1996

Phil Briggs  
Chevron U.S.A. Products Company  
P.O. Box 5004  
San Ramon, CA 94583-0804

## 2nd Quarter 1996 Monitoring at 9-0076

Second Quarter 1996 Groundwater Monitoring at  
Chevron Service Station Number 9-0076  
4265 Foothill Blvd.  
Oakland, CA

Monitoring Performed on June 21, 1996

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### Groundwater Sampling Report 960621-W-1

This report covers the routine quarterly 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,

A handwritten signature in cursive script that reads "James Keller for:".

James Keller  
Vice President

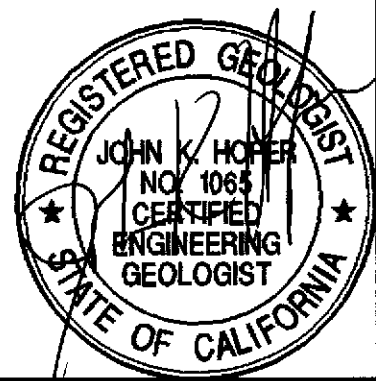
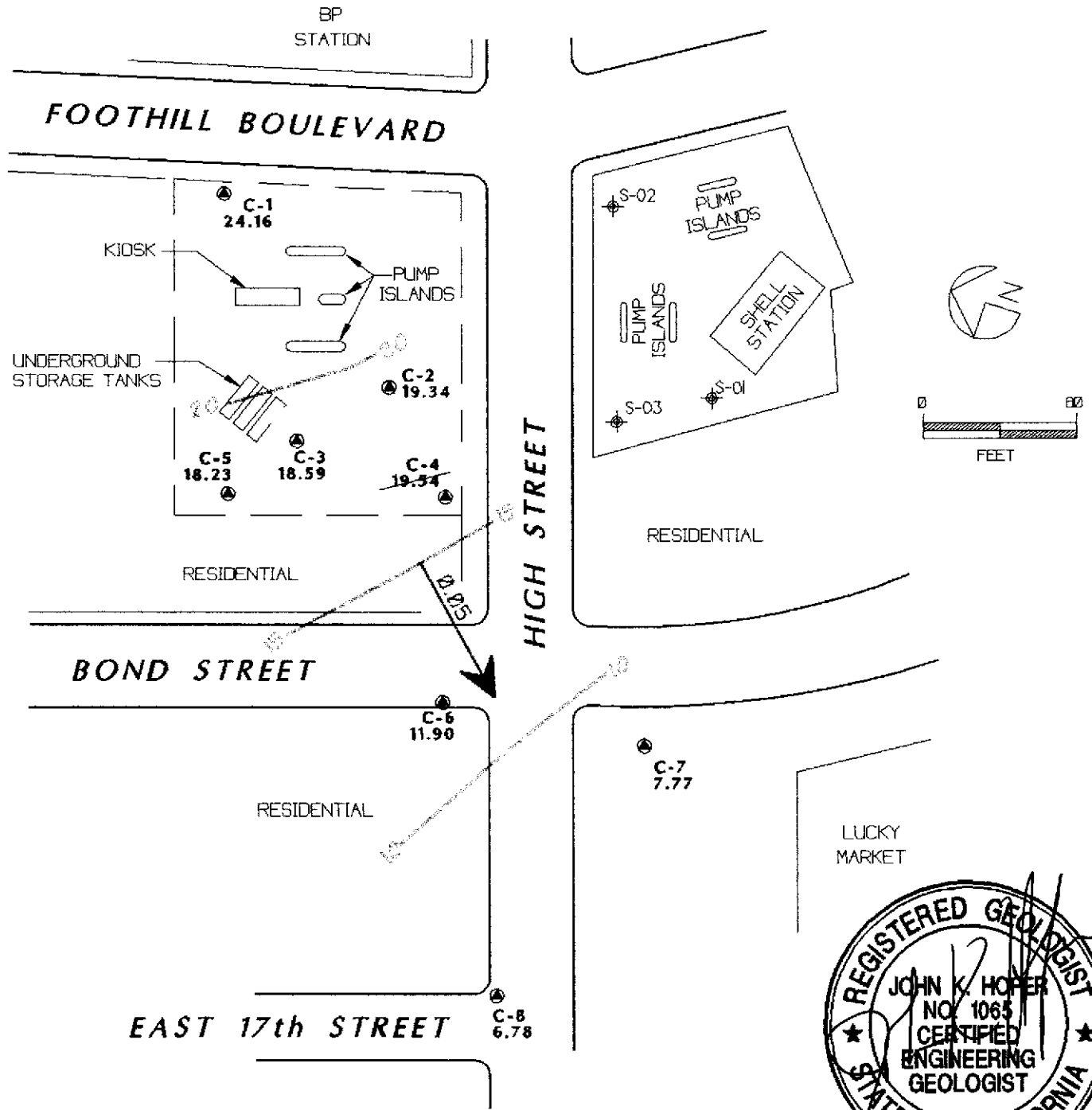
JPK/dk

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

# **Professional Engineering Appendix**

**EXPLANATION**

- C-1 MONITORING WELL LOCATION AND WELL NUMBER
- 24.16 GROUND-WATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- ~~19.34~~ DATA NOT USED FOR CONTOURING
- 10 GROUND-WATER ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL
- 0.05 → APPROXIMATE DIRECTION OF GROUND-WATER FLOW. GRADIENT INDICATED IN FEET / FEET



TITLE : GROUND-WATER ELEVATION CONTOUR MAP - JUNE 21, 1996  
 LOCATION : CHEVRON SERVICE STATION No.: 9-0076 4265 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA  
 SOURCE : CAMBRIA ENVIRONMENTAL TECHNOLOGY, INC.

**GEOCONSULTANTS, INC**  
 SAN JOSE, CALIFORNIA  
 Project No. G756-09  
 DRAWING NO. CHEVRON-CH-92076-NW052196

# **Table of Well Data and Analytical Results**

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Volumetric Measurements are in gallons.

Analytical results are in parts per billion (ppb)

DATE	Vertical Measurements are in feet.			Volumetric Measurements are in gallons.			Notes	Analytical results are in parts per billion (ppb)					
	Well Head Elev.	Ground Water Elev.	Depth To Water	SPH Thickness	SPH Removed	Total SPH Removed		TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE
<b>C-1</b>													
04/28/89	35.42	15.37	20.05	--	--	--	--	940	30	1.3	11	13	--
08/08/89	35.42	11.35	24.07	--	--	--	--	820	45	2.0	13	13	--
12/21/89	35.42	12.61	22.81	--	--	--	--	--	--	--	--	--	--
08/27/90	35.42	13.30	22.12	--	--	--	--	440	15	1.0	6.0	13	--
11/04/90	35.42	9.86	25.56	--	--	--	--	--	--	--	--	--	--
06/18/91	35.42	13.78	21.64	--	--	--	--	74	5.6	0.6	1.9	1.3	--
09/19/91	35.42	10.84	24.58	--	--	--	--	150	7.1	<0.5	2.3	3.0	--
12/20/91	35.42	9.25	26.17	--	--	--	--	250	10	<0.5	3.7	1.6	--
03/18/92	35.42	17.17	18.25	--	--	--	--	190	16	<0.5	8.5	2.9	--
07/14/92	35.42	7.81	27.61	--	--	--	--	20,000	480	2200	510	2900	--
10/08/92	35.42	10.98	24.44	--	--	--	--	360	34	4.6	19	12	--
01/08/93	35.42	15.74	19.68	--	--	--	--	120	9.1	0.5	5.1	1.8	--
04/14/93	35.42	19.04	16.38	--	--	--	--	190	74	0.6	1.0	2.0	--
07/16/93	35.42	--	--	--	--	--	--	--	--	--	--	--	--
07/27/93	35.42	26.03	9.39	--	--	--	--	300	12	<0.5	5.0	2.0	--
09/21/93	38.41	16.99	21.42	--	--	--	--	360	12	1.2	5.8	3.7	--
01/28/94	38.41	18.84	19.57	--	--	--	--	370	24	1.0	13	4.0	--
03/17/94	38.41	21.56	16.85	--	--	--	--	460	42	<0.5	6.7	3.7	--
06/16/94	38.41	20.58	17.83	--	--	--	--	320	20	0.7	8.7	3.0	--
09/22/94	38.41	18.15	20.26	--	--	--	--	380	24	0.6	8.8	1.9	--
12/15/94	38.41	22.59	15.82	--	--	--	--	280	23	7.6	7.8	13	--
03/30/95	38.41	26.39	12.02	--	--	--	--	2200	890	8.9	15	<5.0	--
06/20/95	38.41	24.01	14.40	--	--	--	--	690	140	<2.0	9.4	2.8	--
09/20/95	38.41	24.59	13.82	--	--	--	--	730	27	78	26	130	--
12/06/95	38.41	17.81	20.60	--	--	--	--	220	16	<0.5	7.2	1.7	11
03/21/96	38.41	26.76	11.65	--	--	--	--	640	170	<2.0	6.7	<2.0	35
06/21/96	38.41	24.16	14.25	--	--	--	--	640	140	<1.2	8.7	2.0	23

### Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.			Volumetric Measurements are in gallons.				Analytical results are in parts per billion (ppb)						
DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	SPH Thickness	SPH Removed	Total SPH Removed	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE
<b>C-2</b>													
04/28/89	35.18	8.74	26.44	--	--	--	--	120,000	30,000	22,000	3000	17,000	--
08/08/89	35.18	5.29	29.90	0.01	--	--	--	--	--	--	--	--	--
12/21/89	35.18	5.86	29.32	--	--	--	--	--	--	--	--	--	--
08/27/90	35.18	5.77	29.55	0.17	--	--	--	--	--	--	--	--	--
11/04/90	35.18	4.71	30.47	--	--	--	--	--	--	--	--	--	--
06/18/91	35.18	6.90	28.33	0.06	--	--	--	--	--	--	--	--	--
09/19/91	35.18	5.84	29.39	0.06	--	--	--	--	--	--	--	--	--
12/20/91	35.18	5.95	29.23	--	--	--	--	170,000	20,000	10,000	2800	19,000	--
03/18/92	35.18	21.58	13.60	0.09	--	--	--	--	--	--	--	--	--
07/14/92	35.18	--	--	--	--	--	--	--	--	--	--	--	--
10/08/92	35.18	--	--	--	--	--	--	--	--	--	--	--	--
01/08/93	35.18	10.98	24.20	Sheen	--	--	--	79,000	14,000	7200	3500	16,000	--
04/14/93	35.18	--	--	--	--	--	--	--	--	--	--	--	--
07/16/93	35.18	5.03	30.15	--	--	--	--	2200	440	73	24	350	--
09/21/93	37.47	11.18	26.29	--	--	--	--	11,000	2300	300	270	910	--
01/28/94	37.47	13.51	23.96	--	--	--	--	49,000	11,000	3900	1600	12,000	--
03/17/94	37.47	11.48	25.99	--	--	--	--	16,000	3300	1000	220	3500	--
06/16/94	37.47	13.55	23.92	--	--	--	--	20,000	4800	1500	520	4300	--
09/22/94	37.47	11.85	25.62	--	--	--	--	35,000	5600	850	1700	7300	--
12/15/94	37.47	16.31	21.16	--	--	--	--	96,000	9000	3500	3300	13,000	--
03/30/95	37.47	20.29	17.18	--	--	--	--	100,000	9400	3700	3900	14,000	--
06/20/95	37.47	18.52	18.95	--	--	--	--	93,000	6400	1900	2900	11,000	--
09/20/95	37.47	19.27	18.20	--	--	--	--	58,000	6600	330	1600	5500	--
12/06/95	37.47	12.71	24.76	--	--	--	--	40,000	5000	86	1800	3700	<500
03/21/96	37.47	21.30	16.17	--	0.13	0.13	--	--	--	--	--	--	--
06/21/96	37.47	19.32	18.15	0.02	0.03	0.16	--	--	--	--	--	--	--

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Volumetric Measurements are in gallons.

Analytical results are in parts per billion (ppb)

DATE	Well	Ground	Depth	Total			Notes	TPH- Gasoline	Benzene	Toluene	Ethyl- Benzene	Xylene	MTBE
	Head Elev.	Water Elev.	To Water	SPH Thickness	SPH Removed	SPH Removed							
<b>C-3</b>													
04/28/89	35.28	7.28	28.00	--	--	--	--	<500	1.7	<0.5	<0.5	<0.5	--
08/08/89	35.28	5.28	30.00	--	--	--	--	<500	1.0	<0.5	<0.5	<0.5	--
12/21/89	35.28	4.75	30.53	--	--	--	--	--	--	--	--	--	--
08/27/90	35.28	5.60	29.68	--	--	--	--	<50	<0.3	<0.3	<0.3	<0.6	--
11/04/90	35.30	4.94	30.36	--	--	--	--	--	--	--	--	--	--
06/18/91	35.30	6.84	28.46	--	--	--	--	52	1.1	<0.5	<0.5	1.2	--
09/19/91	35.30	5.97	29.33	--	--	--	--	73	1.2	<0.5	<0.5	<0.5	--
12/20/91	35.30	5.53	29.77	--	--	--	--	<50	0.7	<0.5	<0.5	<0.5	--
03/18/92	35.30	9.55	25.75	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/14/92	35.30	7.43	27.87	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/08/92	35.30	6.75	28.55	--	--	--	--	<50	<0.5	<0.5	<0.5	0.5	--
01/08/93	35.30	9.45	25.85	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/14/93	35.30	11.34	23.96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/16/93	35.30	9.66	25.64	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/21/93	38.37	12.15	26.22	--	--	--	--	<50	0.7	<0.5	<0.5	<0.8	--
01/28/94	38.37	12.71	25.66	--	--	--	--	<50	2.0	<0.5	<0.5	1.0	--
03/17/94	38.37	13.42	24.95	--	--	--	--	<50	2.8	<0.5	0.6	1.5	--
06/16/94	38.37	14.06	24.31	--	--	--	--	<50	1.4	<0.5	<0.5	<0.5	--
09/22/94	38.37	13.33	25.04	--	--	--	--	<50	0.6	<0.5	<0.5	<0.5	--
12/15/94	38.37	16.15	22.22	--	--	--	--	<50	2.6	1.7	0.82	4.5	--
03/30/95	38.37	19.95	18.42	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/20/95	38.37	18.58	19.79	--	--	--	--	110	2.2	<0.5	<0.5	1.2	--
09/20/95	38.37	19.42	18.95	--	--	--	--	560	21	80	23	120	--
12/06/95	38.37	14.21	24.16	--	--	--	--	<50	0.73	<0.5	<0.5	0.67	<2.5
03/21/96	38.37	20.52	17.85	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/21/96	38.37	18.59	19.78	--	--	--	--	57	<0.5	<0.5	<0.5	<0.5	<2.5



### Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.				Volumetric Measurements are in gallons.				Analytical results are in parts per billion (ppb)					
DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	SPH Thickness	SPH Removed	Total SPH Removed	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE
<b>C-4</b>													
01/12/89	33.45	3.96	29.49	--	--	--	--	--	--	--	--	--	--
04/12/89	33.45	6.01	27.44	--	--	--	--	--	--	--	--	--	--
04/28/89	33.45	3.96	29.49	--	--	--	--	20,000	6300	550	230	1500	--
08/08/89	33.45	3.90	29.55	--	--	--	--	8000	7500	340	88	1000	--
12/21/89	33.45	3.43	30.02	--	--	--	--	--	--	--	--	--	--
08/27/90	33.48	4.46	29.02	--	--	--	--	26,000	10,000	280	410	1400	--
11/04/90	33.48	3.67	29.81	--	--	--	--	--	--	--	--	--	--
06/18/91	33.48	6.03	27.45	--	--	--	--	34,000	14,000	410	450	1300	--
09/19/91	33.48	4.83	28.65	--	--	--	--	16,000	7400	90	110	460	--
12/20/91	33.48	4.64	28.84	--	--	--	--	24,000	12,000	120	260	740	--
03/18/92	33.48	11.05	24.43	--	--	--	--	48,000	6000	1300	1300	2400	--
07/14/92	33.48	6.59	26.89	--	--	--	--	40,000	14,000	920	550	2400	--
10/08/92	33.48	5.69	27.79	--	--	--	--	29,000	13,000	190	110	1400	--
01/08/93	33.48	9.98	23.50	--	--	--	--	25,000	7000	630	860	1800	--
04/14/93	33.48	12.35	21.13	--	--	--	--	27,000	6300	1000	900	1400	--
07/16/93	33.48	9.52	23.96	--	--	--	--	28,000	7800	1100	830	2100	--
09/21/93	36.49	10.98	25.51	--	--	--	--	30,000	9600	130	390	1300	--
01/28/94	36.49	13.18	23.31	--	--	--	--	18,000	7800	440	260	1200	--
03/17/94	36.49	15.14	21.35	--	--	--	--	32,000	7800	820	820	1800	--
06/16/94	36.49	13.99	22.50	--	--	--	--	25,000	7600	710	600	1800	--
09/22/94	36.49	12.56	23.93	--	--	--	--	25,000	7800	140	600	1100	--
12/15/94	36.49	17.47	19.02	--	--	--	--	38,000	7600	460	1200	2000	--
03/30/95	36.49	21.63	14.86	--	--	--	--	41,000	8700	1600	1800	3000	--
06/20/95	36.49	19.59	16.90	--	--	--	--	29,000	6000	890	960	1800	--
09/20/95	36.49	20.29	16.20	--	--	--	--	12,000	6900	510	290	1300	--
12/06/95	36.49	13.37	23.12	--	--	--	--	13,000	3900	42	30	250	<250
03/21/96	36.49	22.39	14.10	--	--	--	--	39,000	4800	640	1000	1800	<1000
06/21/96	36.49	19.54	16.95	--	--	--	--	26,000	4400	640	960	1800	2000

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Volumetric Measurements are in gallons.

Analytical results are in parts per billion (ppb)

DATE	Well	Ground	Depth	Total			Notes	TPH- Gasoline	Benzene	Toluene	Ethyl- Benzene	Xylene	MTBE
	Head Elev.	Water Elev.	To Water	SPH Thickness	SPH Removed	SPH Removed							
<b>C-5</b>													
08/27/90	35.50	5.67	29.83	--	--	--	--	<50	<0.3	<0.3	<0.3	<0.6	--
11/14/90	35.50	4.94	30.56	--	--	--	--	--	--	--	--	--	--
06/18/91	35.50	6.98	28.52	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/19/91	35.50	5.99	29.51	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/20/91	35.50	5.54	29.96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/18/92	35.50	9.58	25.92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/14/92	35.50	7.50	28.00	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/08/92	35.50	6.85	28.65	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/08/93	35.50	9.48	26.02	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/14/93	35.50	11.46	24.04	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/16/93	35.50	10.29	25.21	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/21/93	38.50	12.14	26.36	--	--	--	--	60	10	8.1	1.9	9.4	--
01/28/94	38.50	12.60	25.90	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/17/94	38.50	14.00	24.50	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/16/94	38.50	14.10	24.40	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/22/94	38.50	13.34	25.16	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/15/94	38.50	15.61	22.89	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/30/95	38.50	19.96	18.54	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/20/95	38.50	18.37	20.13	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/20/95	38.50	14.16	24.34	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/06/95	38.50	14.40	24.10	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
03/21/96	38.50	20.10	18.40	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/21/96	38.50	18.23	20.27	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	8.7

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Volumetric Measurements are in gallons.

Analytical results are in parts per billion (ppb)

DATE	Well	Ground	Depth	Total			Notes	TPH- Gasoline	Benzene	Toluene	Ethyl- Benzene	Xylene	MTBE
	Head Elev.	Water Elev.	To Water	SPH Thickness	SPH Removed	SPH Removed							
<b>C-6</b>													
08/27/90	32.40	-11.71	44.11	--	--	--	--	7200	2100	6.0	41	300	--
11/14/90	32.40	-11.63	44.03	--	--	--	--	--	--	--	--	--	--
06/18/91	32.40	-11.09	43.49	--	--	--	--	4400	2500	18	160	77	--
09/19/91	32.40	-1.92	34.32	--	--	--	--	3100	1600	8.3	73	8.0	--
12/20/91	32.40	-8.95	41.35	--	--	--	--	4400	1300	3.2	74	10	--
03/18/92	32.40	-8.29	40.69	--	--	--	--	9800	3200	34	250	500	--
07/14/92	32.40	-6.49	38.89	--	--	--	--	6500	2200	100	96	240	--
10/08/92	32.40	-6.27	38.67	--	--	--	--	1800	1000	3.1	15	41	--
01/08/93	32.40	-5.41	37.81	--	--	--	--	5200	1600	6.8	63	120	--
04/14/93	32.40	-2.30	34.70	--	--	--	--	11,000	1800	13	110	200	--
07/16/93	32.40	-1.47	33.87	--	--	--	--	4800	820	10	41	57	--
09/21/93	35.40	1.42	33.98	--	--	--	--	4100	1200	<50	75	130	--
01/28/94	35.40	1.54	33.86	--	--	--	--	3100	930	14	40	34	--
03/17/94	35.40	3.09	32.31	--	--	--	--	5100	950	18	61	83	--
06/16/94	35.40	3.90	31.50	--	--	--	--	3800	970	6.4	52	62	--
09/22/94	35.40	4.18	31.22	--	--	--	--	4100	980	7.8	43	48	--
12/15/94	35.40	4.00	31.40	--	--	--	--	5000	1400	<20	73	61	--
03/30/95	35.40	9.02	26.38	--	--	--	--	5500	1700	<13	120	97	--
06/20/95	35.40	10.39	25.01	--	--	--	--	1700	470	<10	29	16	--
09/20/95	35.40	11.35	24.05	--	--	--	--	3500	770	<5.0	45	17	--
12/06/95	35.40	7.28	28.12	--	--	--	--	3100	710	<10	41	20	<50
03/21/96	35.40	12.28	23.12	--	--	--	--	1400	330	<2.5	15	8.1	19
06/21/96	35.40	11.90	23.50	--	--	--	--	2200	560	<5.0	18	<5.0	77

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Volumetric Measurements are in gallons.

Analytical results are in parts per billion (ppb)

DATE	Well	Ground	Depth	SPH		Total	Notes	Analytical results are in parts per billion (ppb)						
	Head Elev.	Water Elev.	To Water	SPH Thickness	SPH Removed	SPH Removed		TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	
<b>C-7</b>														
08/27/90	32.17	-12.06	44.23	--	--	--	--	110	26	0.8	4.0	6.0	--	--
11/14/90	32.17	-11.94	44.11	--	--	--	--	--	--	--	--	--	--	--
06/18/91	32.17	-9.88	42.05	--	--	--	--	23,000	5700	420	1000	2800	--	--
09/19/91	32.17	-9.55	41.72	--	--	--	--	26,000	4600	330	970	2400	--	--
12/20/91	32.17	-9.50	41.67	--	--	--	--	33,000	5500	270	1000	2100	--	--
03/18/92	32.17	-9.03	41.20	--	--	--	--	27,000	5800	410	1300	3300	--	--
07/14/92	32.17	-7.60	39.77	--	--	--	--	46,000	12,000	720	1700	4600	--	--
10/08/92	32.17	-6.97	39.14	--	--	--	--	22,000	6800	370	1300	3200	--	--
01/08/93	32.17	-6.33	38.50	--	--	--	--	36,000	7600	540	1700	4200	--	--
04/14/93	32.17	-3.76	35.93	--	--	--	--	23,000	3100	450	670	1900	--	--
07/16/93	32.17	-3.21	35.38	--	--	--	--	19,000	3200	330	550	1800	--	--
09/21/93	35.19	-0.27	35.46	--	--	--	--	17,000	2700	160	410	760	--	--
01/28/94	35.19	-0.26	35.45	--	--	--	--	14,000	1800	210	390	1000	--	--
03/17/94	35.19	1.95	33.24	--	--	--	--	17,000	1600	210	410	1200	--	--
06/16/94	35.19	2.12	33.07	--	--	--	--	12,000	1600	180	410	1200	--	--
09/22/94	35.19	2.45	32.74	--	--	--	--	10,000	1700	110	320	580	--	--
12/15/94	35.19	3.27	31.92	--	--	--	--	10,000	1200	120	280	710	--	--
03/30/95	35.19	7.59	27.60	--	--	--	--	4600	460	73	160	460	--	--
06/20/95	35.19	7.32	27.87	--	--	--	--	26,000	4400	450	900	2400	--	--
09/20/95	35.19	7.11	28.08	--	--	--	--	9400	610	81	250	800	--	--
12/06/95	35.19	4.57	30.62	--	--	--	--	1200	110	12	25	71	34	--
03/21/96	35.19	7.34	27.85	--	--	--	--	17,000	1300	160	410	1300	<100	--
06/21/96	35.19	7.77	27.42	--	--	--	--	14,000	1300	210	500	1700	590	--

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.				Volumetric Measurements are in gallons.			Analytical results are in parts per billion (ppb)						
DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	SPH Thickness	SPH Removed	Total SPH Removed	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE
<b>C-8</b>													
11/14/90	30.68	-12.61	43.29	--	--	--	--	<50	<0.3	<0.3	<0.3	<0.6	--
06/18/91	30.68	-11.94	42.62	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/19/91	30.68	-11.04	41.72	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/20/91	30.68	-10.30	40.98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/18/92	30.68	-9.34	40.02	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/14/92	30.68	-8.34	39.02	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/08/92	30.68	-8.00	38.68	--	--	--	--	<50	<0.5	<0.5	<0.5	1.1	--
01/08/93	30.68	-7.39	38.07	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/14/93	30.68	-5.31	35.99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/16/93	30.68	-4.64	35.32	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/21/93	34.68	-0.62	35.30	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.8	--
01/28/94	34.68	-0.93	35.61	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/17/94	34.68	0.31	34.37	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/16/94	34.68	1.32	33.36	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/22/94	34.68	1.86	32.82	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/15/94	34.68	2.32	32.36	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/30/95	34.68	5.44	29.24	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/20/95	34.68	6.34	28.34	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/20/95	34.68	5.20	29.48	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/06/95	34.68	3.76	30.92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
03/21/96	34.68	6.03	28.65	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/21/96	34.68	6.78	27.90	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Volumetric Measurements are in gallons.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	SPH Thickness	SPH Removed	Total SPH Removed	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE
<b>TRIP BLANK</b>													
04/28/89	--	--	--	--	--	--	--	<500	<0.5	<0.5	<0.5	<0.5	--
08/08/89	--	--	--	--	--	--	--	<500	<0.5	<0.5	<0.5	<0.5	--
08/27/90	--	--	--	--	--	--	--	<50	<0.3	<0.3	<0.3	<0.6	--
11/14/90	--	--	--	--	--	--	--	<50	<0.3	<0.3	<0.3	<0.6	--
06/18/91	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/19/91	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/20/91	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/18/92	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/14/92	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/08/92	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/08/93	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
04/14/93	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/16/93	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/21/93	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.8	--
01/28/94	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/17/94	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/16/94	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/22/94	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/15/94	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/30/95	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/20/95	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/20/95	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/06/95	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/21/96	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/21/96	--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5

Note: Blaine Tech Services, Inc. began routine monitoring of the groundwater wells at this site on November 1, 1994.

Earlier field data and analytical results are drawn from the September 27, 1994 Groundwater Technology, Inc. report.

**ABBREVIATIONS:**

TPH = Total Petroleum Hydrocarbons

MTBE = Methyl t-Butyl Ether

# Analytical Appendix



Blaine Technical Services 985 Timothy Drive San Jose, CA 95133	Client Proj. ID: Chevron 9-0076/960621-W1 Sample Descript: C-1 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9606D19-01	Sampled: 06/21/96 Received: 06/24/96 Analyzed: 06/28/96 Reported: 07/04/96
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QC Batch Number: GC062896BTEX17B  
Instrument ID: GCHP17

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**


Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	125	640
Methyl t-Butyl Ether	6.2	23
Benzene	1.2	140
Toluene	1.2	N.D.
Ethyl Benzene	1.2	8.7
Xylenes (Total)	1.2	2.0
Chromatogram Pattern:		Gas

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	94

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

**SEQUOIA ANALYTICAL** - ELAP #1210

  
Peggy Penner  
Project Manager







Blaine Technical Services	Client Proj. ID: Chevron 9-0076/960621-W1	Sampled: 06/21/96
985 Timothy Drive	Sample Descript: C-3	Received: 06/24/96
San Jose, CA 95133	Matrix: LIQUID	
Attention: Jim Keller	Analysis Method: 8015Mod/8020	Analyzed: 06/27/96
	Lab Number: 9606D19-02	Reported: 07/04/96

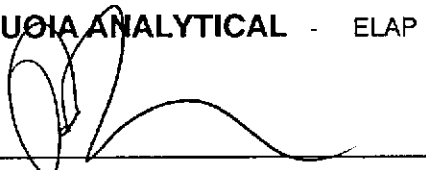
QC Batch Number: GC062796BTEX02B  
Instrument ID: GCHP02

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	57
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern: Unidentified HC		C6-C12
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70                      130	92

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

**SEQUOIA ANALYTICAL** - ELAP #1210

  
Peggy Penner  
Project Manager





Blaine Technical Services 985 Timothy Drive San Jose, CA 95133 Attention: Jim Keller	Client Proj. ID: Chevron 9-0076/960621-W1 Sample Descript: C-4 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9606D19-03	Sampled: 06/21/96 Received: 06/24/96 Analyzed: 06/28/96 Reported: 07/04/96
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QC Batch Number: GC062896BTEX17B  
 Instrument ID: GCHP17

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

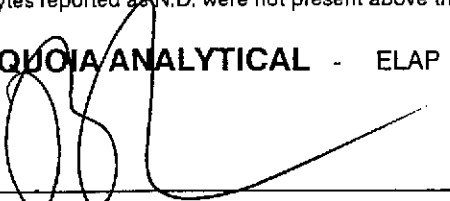
Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	5000	26000
Methyl t-Butyl Ether	250	2000
Benzene	50	4400
Toluene	50	640
Ethyl Benzene	50	960
Xylenes (Total)	50	1800
Chromatogram Pattern:		Gas

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70	130
		88

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

**SEQUOIA ANALYTICAL** - ELAP #1210

  
 Peggy Penner  
 Project Manager





Blaine Technical Services 985 Timothy Drive San Jose, CA 95133 Attention: Jim Keller	Client Proj. ID: Chevron 9-0076/960621-W1 Sample Descript: C-6 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9606D19-05	Sampled: 06/21/96 Received: 06/24/96 Analyzed: 06/27/96 Reported: 07/04/96
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QC Batch Number: GC062796BTEX02B  
Instrument ID: GCHP02

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	500	2200
Methyl t-Butyl Ether	25	77
Benzene	5.0	560
Toluene	5.0	N.D.
Ethyl Benzene	5.0	18
Xylenes (Total)	5.0	N.D.
Chromatogram Pattern:		Gas

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	98

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

**SEQUOIA ANALYTICAL - ELAP #1210**

  
Peggy Penner  
Project Manager





Blaine Technical Services 985 Timothy Drive San Jose, CA 95133 Attention: Jim Keller	Client Proj. ID: Chevron 9-0076/960621-W1 Sample Descript: C-7 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9606D19-06	Sampled: 06/21/96 Received: 06/24/96 Analyzed: 06/27/96 Reported: 07/04/96
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QC Batch Number: GC062796BTEX21B  
Instrument ID: GCHP21

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	1000	14000
Methyl t-Butyl Ether	50	590
Benzene	10	1300
Toluene	10	210
Ethyl Benzene	10	500
Xylenes (Total)	10	1700
Chromatogram Pattern:		Gas
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	106

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

**SEQUOIA ANALYTICAL - ELAP #1210**



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Peggy Penner  
Project Manager





Blaine Technical Services 985 Timothy Drive San Jose, CA 95133	Client Proj. ID: Chevron 9-0076/960621-W1 Sample Descript: C-8 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9606D19-07	Sampled: 06/21/96 Received: 06/24/96  Analyzed: 06/27/96 Reported: 07/04/96
--	--	---

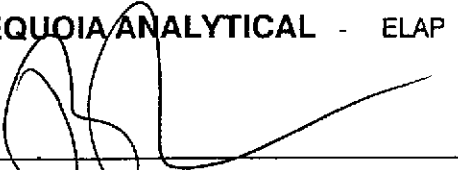
QC Batch Number: GC062796BTEX21B  
Instrument ID: GCHP21

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70                      130	95

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

**SEQUOIA ANALYTICAL** - ELAP #1210



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Peggy Fenner  
Project Manager





Blaine Technical Services 985 Timothy Drive San Jose, CA 95133 Attention: Jim Keller	Client Proj. ID: Chevron 9-0076/960621-W1 Sample Descript: TB Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9606D19-08	Sampled: 06/21/96 Received: 06/24/96 Analyzed: 06/27/96 Reported: 07/04/96
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QC Batch Number: GC062796BTEX21B  
Instrument ID: GCHP21

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70                      130	94

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

**SEQUOIA ANALYTICAL - ELAP #1210**

  
Peggy Penner  
Project Manager





Blaine Technical Services  
985 Timothy Drive  
San Jose, CA 95133  
Attention: Jim Keller

Client Proj. ID: Chevron 9-0076/960621-W1

Received: 06/24/96

Lab Proj. ID: 9606D19

Reported: 07/04/96

### LABORATORY NARRATIVE

TPPH Note: Sample 9606D19-01 was diluted 2.5-fold.  
Sample 9606D19-03 was diluted 100-fold.  
Sample 9606D19-05 was diluted 10-fold.  
Sample 9606D19-06 was diluted 20-fold.

**SEQUOIA ANALYTICAL**

  
Peggy Renner  
Project Manager





Blaine Tech Services, Inc.  
985 Timothy Drive  
San Jose, CA 95133  
Attention: Jim Keller

Client Project ID: Chevron 9-0076 / 960621-W1  
Matrix: Liquid

Work Order #: 9606D19 -01, 03

Reported: Jul 5, 1996

**QUALITY CONTROL DATA REPORT**

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC062896BTEX17B	GC062896BTEX17B	GC062896BTEX17B	GC062896BTEX17B
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	J. Woo	J. Woo	J. Woo	J. Woo
MS/MSD #:	9606B2105	9606B2105	9606B2105	9606B2105
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	6/28/96	6/28/96	6/28/96	6/28/96
Analyzed Date:	6/28/96	6/28/96	6/28/96	6/28/96
Instrument I.D.#:	GCHP17	GCHP17	GCHP17	GCHP17
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	9.5	9.1	8.8	25
MS % Recovery:	95	91	88	83
Dup. Result:	8.8	8.5	8.5	25
MSD % Recov.:	88	85	85	83
RPD:	7.7	6.8	3.5	0.0
RPD Limit:	0-25	0-25	0-25	0-25

LCS #:	BLK062896	BLK062896	BLK062896	BLK062896
Prepared Date:	6/28/96	6/28/96	6/28/96	6/28/96
Analyzed Date:	6/28/96	6/28/96	6/28/96	6/28/96
Instrument I.D.#:	GCHP17	GCHP17	GCHP17	GCHP17
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	8.3	8.4	8.3	25
LCS % Recov.:	83	84	83	83

MS/MSD	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130
Control Limits				

**SEQUOIA ANALYTICAL**  
  
Peggy Penner  
Project Manager

**Please Note:**

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

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

9606D19.BLA <1>







Blaine Tech Services, Inc.  
985 Timothy Drive  
San Jose, CA 95133  
Attention: Jim Keller

Client Project ID: Chevron 9-0076 / 960621-W1  
Matrix: Liquid

Work Order #: 9606D19-02, 04-05

Reported: Jul 5, 1996

**QUALITY CONTROL DATA REPORT**

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC062796BTEX02B	GC062796BTEX02B	GC062796BTEX02B	GC062796BTEX02B
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	J. Woo	J. Woo	J. Woo	J. Woo
MS/MSD #:	960695405	960695405	960695405	960695405
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	6/27/96	6/27/96	6/27/96	6/27/96
Analyzed Date:	6/27/96	6/27/96	6/27/96	6/27/96
Instrument I.D.#:	GCHP2	GCHP2	GCHP2	GCHP2
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	10	10	9.8	30
MS % Recovery:	100	100	98	100
Dup. Result:	9.8	9.8	9.7	29
MSD % Recov.:	98	98	97	97
RPD:	2.0	2.0	1.0	3.4
RPD Limit:	0-25	0-25	0-25	0-25

LCS #:	BLK062796	BLK062796	BLK062796	BLK062796
Prepared Date:	6/27/96	6/27/96	6/27/96	6/27/96
Analyzed Date:	6/27/96	6/27/96	6/27/96	6/27/96
Instrument I.D.#:	GCHP2	GCHP2	GCHP2	GCHP2
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	10	10	9.9	30
LCS % Recov.:	100	100	99	100

MS/MSD	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130
Control Limits				

**SEQUOIA ANALYTICAL**  
  
Peggy Penner  
Project Manager

**Please Note:**

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

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

9606D19.BLA <2>





# Sequoia Analytical

680 Chesapeake Drive Redwood City, CA 94063 (415) 364-9600 FAX (415) 364-9233  
 404 N. Wiget Lane Walnut Creek, CA 94598 (510) 988-9600 FAX (510) 988-9673  
 819 Striker Avenue, Suite 8 Sacramento, CA 95834 (916) 921-9600 FAX (916) 921-0100

Blaine Tech Services, Inc.  
 985 Timothy Drive  
 San Jose, CA 95133  
 Attention: Jim Keller

Client Project ID: Chevron 9-0076 / 960621-W1  
 Matrix: Liquid

Work Order #: 9606D19-06-08

Reported: Jul 5, 1996


## QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC062796BTEX21B	GC062796BTEX21B	GC062796BTEX21B	GC062796BTEX21B
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	J. Woo	J. Woo	J. Woo	J. Woo
MS/MSD #:	9606A0401	9606A0401	9606A0401	9606A0401
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	6/27/96	6/27/96	6/27/96	6/27/96
Analyzed Date:	6/27/96	6/27/96	6/27/96	6/27/96
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	10	9.9	10	30
MS % Recovery:	100	99	100	100
Dup. Result:	10	10	10	31
MSD % Recov.:	100	100	100	103
RPD:	0.0	1.0	0.0	3.3
RPD Limit:	0-25	0-25	0-25	0-25

LCS #:	BLK062796	BLK062796	BLK062796	BLK062796
Prepared Date:	6/27/96	6/27/96	6/27/96	6/27/96
Analyzed Date:	6/27/96	6/27/96	6/27/96	6/27/96
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	11	11	11	33
LCS % Recov.:	110	110	110	110

MS/MSD	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130
Control Limits				

**SEQUOIA ANALYTICAL**  
  
 Reggy Penner  
 Project Manager

**Please Note:**

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

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

9606D19.BLA <3>



# Chain-of-Custody-Record

Chevron U.S.A. Inc.  
 P.O. BOX 5004  
 San Ramon, CA 94583  
 FAX (415)842-9591

Chevron Facility Number: 9-0076  
 Facility Address: 4265 Foothill Blvd., Oakland, CA  
 Consultant Project Number: 960621-W1  
 Consultant Name: Blaine Tech Services, Inc.  
 Address: 985 Timothy Dr., San Jose, CA 95133  
 Project Contact (Name): Jim Keller  
 (Phone) 408 995-5535 (Fax Number) 408 293-8773

Chevron Contact (Name): Phil Briggs  
 (Phone): (510) 842-9136  
 Laboratory Name: Sequoia  
 Laboratory Release Number: 2172480  
 Samples Collected by (Name): WR Jones  
 Collection Date: 6/21/96  
 Signature: [Signature]

Sample Number	Lab Sample Number	Number of Containers	Media S = Soil W = Water A = Air C = Charcoal	Type C = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analytes To Be Performed											DO NOT BILL FOR TB-LB	Remarks			
								BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)	MTBE	9606219						
C1	1	3	W		1045		Y	X															
C-3	2	↑			1030																		
C-4	3	↑			1200																		
C-5	4	↑			1015																		
C-6	5	↑			1110																		
C-7	6	↑			1135																		
C-8	7	↓			935																		
TB	8	2	↓				↓	↓															

Relinquished By (Signature): <u>[Signature]</u>	Organization: <u>BTS</u>	Date/Time: <u>6/24 930</u>	Received By (Signature): <u>[Signature]</u>	Organization: <u>Sequoia</u>	Date/Time: <u>6/24 0930</u>	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 6 Days <u>10 Days</u> As Contracted
Relinquished By (Signature): <u>[Signature]</u>	Organization: <u>Sequoia</u>	Date/Time: <u>6/24 1115</u>	Received By (Signature): <u>[Signature]</u>	Organization:	Date/Time:	
Relinquished By (Signature):	Organization:	Date/Time:	Received For Laboratory By (Signature): <u>[Signature]</u>	Organization:	Date/Time: <u>6/24 1119</u>	

# **Field Data Sheets**

# WELL GAUGING DATA

Project # 960621-WJ Date 6/21 Client chev. 9-0076

Site 4265 FOOTHILL BLVD OAK, CA

Well I.D.	Well Size (in.)	Sheen/Odor	Depth to Immiscible Liquid (feet)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to Water (feet)	Depth to Well Bottom (feet)	Survey Point: TOB or TOC
<del>AW</del> C 1	3					14.25	39.55	TOC
* <del>AW</del> C 2	3	FP ODOR	18.13 EXT. SYSTEM	.02 NOT	100ml RUNNING	18.15	—	↓
<del>AW</del> C 3	3					19.78	39.42	
<del>AW</del> C 4	3					16.95	39.41	
<del>AW</del> C 5	2					20.27	44.16	
<del>AW</del> C 6	2					23.50	54.65	
<del>AW</del> C 7	2					27.42	54.40	
<del>AW</del> C 8	2					27.90	56.53	

\*

# CHEVRON WELL MONITORING DATA SHEET

Project #: <u>960621-W1</u>	Station #: <u>9-0076</u>
Sampler: <u>WJ</u>	Start Date: <u>6/21</u>
Well I.D.: <u>C-1</u>	Well Diameter: (circle one) 2 <u>(3)</u> 4 6
Total Well Depth: <u>39.55</u>	Depth to Water: <u>14.25</u>
Before: _____ After: _____	Before: _____ After: _____
Depth to Free Product: _____ Thickness of Free Product (feet): _____	
Measurements referenced to: <u>(FVC)</u> Grade _____ Other: _____	

Well Diameter	VCF	Well Diameter	VCF
1"	0.04	6"	1.47
2"	0.16	8"	2.61
3"	0.35	10"	4.08
4"	0.55	12"	5.87
5"	1.02	16"	10.43

<u>9.4</u>	<u>x</u>	<u>3</u>	<u>=</u>	<u>28.2</u>	gallons
1 Case Volume		Specified Volumes			

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

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
1037	66.8	6.8	1000	—	9.5	ODOR
1039	66.4	6.8	1000	—	19.0	
1041	65.6	6.8	1000	—	29.0	

Did Well Dewater?  If yes, gals. \_\_\_\_\_ Gallons Actually Evacuated: 29.0

Sampling Time: 1045 Sampling Date: 6/21

Sample I.D.: C-1 Laboratory: S&B

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

Duplicate I.D.: \_\_\_\_\_ Cleaning Blank I.D.: \_\_\_\_\_

Analyzed for: TPH-G BTEX TPH-D OTHER: \_\_\_\_\_

# CHEVRON WELL MONITORING DATA SHEET

Project #: <u>960621-W1</u>	Station #: <u>9-0076</u>
Sampler: <u>WJ</u>	Start Date: <u>6/21</u>
Well I.D.: <u>C-2</u>	Well Diameter: (circle one) 2 <u>(3)</u> 4 6
Total Well Depth: Before _____ After _____	Depth to Water: <u>18.15</u> Before _____ After _____
Depth to Free Product: <u>18.13</u>	Thickness of Free Product (feet): <u>.02</u>
Measurements referenced to: <u>(FVC)</u> Grade Other: _____	

Well Diameter	VCF	Well Diameter	VCF
1"	0.04	6"	1.47
2"	0.16	8"	2.61
3"	0.37	10"	4.08
4"	0.63	12"	5.89
5"	1.02	16"	10.43

_____	x	_____ <u>3</u> _____	=	_____
1 Case Volume		Specified Volumes		gallons

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

TIME	TEMP. (F)	PH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
	<u>* FREE PRODUCT FOUND ON PUMP</u>					
	<u>MEASURED</u>			<u>.02 thickness</u>		
	<u>removed</u>		<u>Approx</u>	<u>100 ml</u>		

Did Well Dewater? \_\_\_\_\_ If yes, gals. \_\_\_\_\_ Gallons Actually Evacuated: \_\_\_\_\_

Sampling Time: \_\_\_\_\_ Sampling Date: 6/21

Sample I.D.: \_\_\_\_\_ Laboratory: SEQ

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

Duplicate I.D.: \_\_\_\_\_ Cleaning Blank I.D.: \_\_\_\_\_

Analyzed for: TPH-G BTEX TPH-D OTHER: \_\_\_\_\_

# CHEVRON WELL MONITORING DATA SHEET

Project #: <u>960621-W1</u>	Station #: <u>9-0076</u>
Sampler: <u>WJ</u>	Start Date: <u>6/21</u>
Well I.D.: <u>C3</u>	Well Diameter: (circle one) 2 <u>3</u> 4 6
Total Well Depth: <u>39.42</u>	Depth to Water: <u>19.78</u>
Before                      After	Before                      After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: <u>FVC</u>	Grade                      Other:

Well Diameter	VCF	Well Diameter	VCF
1"	0.04	6"	1.47
2"	0.16	8"	2.61
3"	0.37	10"	4.08
4"	0.65	12"	5.87
5"	1.02	16"	10.43

<u>7.3</u>	<u>x</u>	<u>3</u>	<u>=</u>	<u>21.9</u>
1 Case Volume		Specified Volumes		gallons

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

TIME	TEMP. (F)	PH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
1021	67.6	6.8	840	—	7.5	
1023	66.8	6.8	780	—	15.0	
1024	67.0	6.7	760	—	22.0	

Did Well Dewater? N If yes, gals.                      Gallons Actually Evacuated: 22.0

Sampling Time: 1030                      Sampling Date: 6/21

Sample I.D.: C-3                      Laboratory: S&Q

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

Duplicate I.D.:                      Cleaning Blank I.D.:

Analyzed for: TPH-G BTEX TPH-D OTHER:  
(Circle)



# CHEVRON WELL MONITORING DATA SHEET

Project #: <u>960621-W1</u>	Station #: <u>9-0076</u>
Sampler: <u>WJ</u>	Start Date: <u>6/21</u>
Well I.D.: <u>C-4</u>	Well Diameter: (circle one) 2 <u>3</u> 4 6
Total Well Depth: <u>39.41</u>	Depth to Water: <u>16.95</u>
Before	After
Before	After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: <u>VFC</u>	Grade Other:

Well Diameter	VCF	Well Diameter	VCF
1"	0.04	6"	1.47
2"	0.16	8"	2.61
3"	0.37	10"	4.08
4"	0.65	12"	5.87
5"	1.02	16"	10.43

<u>8.3</u>	<u>x</u>	<u>3</u>	<u>=</u>	<u>24.9</u>
1 Case Volume		Specified Volumes		gallons

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

TIME	TEMP. (F)	PH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
<u>1152</u>	<u>66.8</u>	<u>6.8</u>	<u>1000</u>	<u>---</u>	<u>8.5</u>	<u>ODOR</u>
<u>1154</u>	<u>65.6</u>	<u>6.6</u>	<u>1000</u>	<u>---</u>	<u>17.0</u>	
<u>1156</u>	<u>65.8</u>	<u>6.7</u>	<u>1000</u>	<u>---</u>	<u>25.0</u>	

Did Well Dewater? W If yes, gals. Gallons Actually Evacuated: 25.0

Sampling Time: <u>1200</u>	Sampling Date: <u>6/21</u>
Sample I.D.: <u>C-4</u>	Laboratory: <u>S&amp;Q</u>
Analyzed for: <u>TPH-G BTEX</u> TPH-D OTHER: <u>MTBE</u>	(Circle)
Duplicate I.D.:	Cleaning Blank I.D.:
Analyzed for: TPH-G BTEX TPH-D OTHER:	(Circle)

# CHEVRON WELL MONITORING DATA SHEET

Project #: <u>960621-W1</u>	Station #: <u>9-0076</u>
Sampler: <u>WJ</u>	Start Date: <u>6/21</u>
Well I.D.: <u>C-5</u>	Well Diameter: (circle one) <u>(2)</u> 3 4 6
Total Well Depth: <u>44.16</u>	Depth to Water: <u>20.27</u>
Before After	Before After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: <u>(FVC)</u>	Grade Other:

Well Diameter	VCF	Well Diameter	VCF
1"	0.04	6"	1.47
2"	0.16	8"	2.61
3"	0.37	10"	4.08
4"	0.63	12"	5.87
5"	1.02	16"	10.43

<u>3.8</u>	<u>x</u>	<u>3</u>	<u>=</u>	<u>11.4</u>
1 Case Volume		Specified Volumes		gallons

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

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
1002	64.8	7.0	860	—	4.0	
1006	63.6	6.7	800	—	8.0	
1010	62.6	6.6	800	—	12.0	

Did Well Dewater? N If yes, gals. Gallons Actually Evacuated: 12.0

Sampling Time: 1015 Sampling Date: 6/21

Sample I.D.: C-5 Laboratory: S&Q

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

Duplicate I.D.: Cleaning Blank I.D.:

Analyzed for: TPH-G BTEX TPH-D OTHER:

# CHEVRON WELL MONITORING DATA SHEET

Project #: <u>960621-W1</u>	Station #: <u>9-0076</u>
Sampler: <u>WJ</u>	Start Date: <u>6/21</u>
Well I.D.: <u>C-6</u>	Well Diameter: (circle one) <u>(2)</u> 3 4 6
Total Well Depth: <u>54.65</u>	Depth to Water: <u>23.50</u>
Before _____ After _____	Before _____ After _____
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Measurements referenced to: <u>(EVC)</u> Grade Other: _____	

Well Diameter	VCF	Well Diameter	VCF
1"	0.04	6"	1.47
2"	0.15	8"	2.61
3"	0.37	10"	4.08
4"	0.65	12"	5.87
5"	1.02	16"	10.43

<u>5.0</u>	x	<u>3</u>	=	<u>15.0</u>
1 Case Volume		Specified Volumes		gallons

Purging: Bailer  
 Disposable Bailer  
 Middleburg   
 Electric Submersible  
 Extraction Pump  
 Other: \_\_\_\_\_

Sampling: Bailer  
 Disposable Bailer   
 Extraction Port  
 Other: \_\_\_\_\_

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
1053	66.0	6.8	1000	—	5.0	ODOR
1058	65.8	6.7	1000	—	10.0	
1103	65.8	6.7	1000	—	15.0	GRAY

Did Well Dewater?  If yes, gals. Gallons Actually Evacuated: 15.0

Sampling Time: <u>1110</u>	Sampling Date: <u>6/21</u>
Sample I.D.: <u>C-6</u>	Laboratory: <u>S&amp;D</u>
Analyzed for: <u>(TPH-G BTEX)</u> TPH-D OTHER: <u>MTBE</u>	
Duplicate I.D.: _____	Cleaning Blank I.D.: _____
Analyzed for: TPH-G BTEX TPH-D OTHER:	
(Circle)	

# CHEVRON WELL MONITORING DATA SHEET

Project #: <u>960621-W1</u>	Station #: <u>9-0076</u>
Sampler: <u>WJ</u>	Start Date: <u>6/21</u>
Well I.D.: <u>C-7</u>	Well Diameter: (circle one) <u>(2)</u> 3 4 6
Total Well Depth: <u>5440</u>	Depth to Water: <u>27.42</u>
Before After	Before After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: <u>(2)VC</u>	Grade Other:

Well Diameter	VCF	Well Diameter	VCF
1"	0.04	6"	1.47
2"	0.16	8"	2.61
3"	0.37	10"	4.08
4"	0.65	12"	5.87
5"	1.02	16"	10.43

<u>4.3</u>	<u>x</u>	<u>3</u>	<u>=</u>	<u>12.9</u>	gallons
1 Case Volume		Specified Volumes			

Purging: Bailer  
 Disposable Bailer  
 Middleburg   
 Electric Submersible  
 Extraction Pump  
 Other \_\_\_\_\_

Sampling: Bailer  
 Disposable Bailer   
 Extraction Port  
 Other \_\_\_\_\_

TIME	TEMP. (F)	PH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
1122	65.0	6.8	1200	—	4.5	ODOR
1127	65.8	6.6	1100	—	9.0	
1131	64.8	6.6	1100	—	13.0	

Did Well Dewater? N If yes, gals. Gallons Actually Evacuated: 13.0

Sampling Time: 1135 Sampling Date: 6/21

Sample I.D.: C-7 Laboratory: S&D

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

Duplicate I.D.: Cleaning Blank I.D.:

Analyzed for: TPH-G BTEX TPH-D OTHER:

# CHEVRON WELL MONITORING DATA SHEET

Project #: <u>960621-W1</u>	Station #: <u>9-0076</u>
Sampler: <u>WJ</u>	Start Date: <u>6/21</u>
Well I.D.: <del>CAWWS</del> <u>C8</u>	Well Diameter: (circle one) <u>(2)</u> 3 4 6
Total Well Depth: <u>56-53</u>	Depth to Water: <u>27.90</u>
Before After	Before After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: <u>PVC</u>	Grade Other:

Well Diameter	VCF	Well Diameter	VCF
1"	0.04	6"	1.47
2"	0.16	8"	2.61
3"	0.37	10"	4.08
4"	0.65	12"	5.87
5"	1.02	16"	10.43

<u>4.6</u>	<u>x</u>	<u>3</u>	<u>=</u>	<u>13.8</u>
1 Case Volume		Specified Volumes		gallons

Purging: Bailer  
 Disposable Bailer  
 Middleburg   
 Electric Submersible  
 Extraction Pump  
 Other \_\_\_\_\_

Sampling: Bailer  
 Disposable Bailer   
 Extraction Port  
 Other \_\_\_\_\_

TIME	TEMP. (F)	PH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
<u>925</u>	<u>64.2</u>	<u>7.2</u>	<u>900</u>	<u>—</u>	<u>5.0</u>	
<u>930</u>	<u>63.6</u>	<u>6.8</u>	<u>880</u>	<u>—</u>	<u>10.0</u>	
<u>934</u>	<u>63.5</u>	<u>6.8</u>	<u>860</u>	<u>—</u>	<u>14.0</u>	

Did Well Dewater? N If yes, gals. Gallons Actually Evacuated: 14.0

Sampling Time: 935 Sampling Date: 6/21

Sample I.D.: ~~CAWWS~~ C8 Laboratory: SEB

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

Duplicate I.D.: Cleaning Blank I.D.:

Analyzed for: TPH-G BTEX TPH-D OTHER: