



**Chevron**

**Chevron U.S.A. Products Company**  
6001 Bollinger Canyon Rd., Bldg. L  
P.O. Box 5004  
San Ramon, CA 94583-0804

**Site Assessment & Remediation Group**  
Phone (510) 842-9500

July 19, 1995

Ms. Eva Chu  
Alameda County Environmental Health  
1131 Harbor Bay Parkway, 2nd Floor  
Alameda, CA 94502

Re: Former Chevron Station # 9-2582, 7240 Dublin Blvd., Dublin, CA  
Attached Soil Vapor Extraction System Summary Report (G & M, 6/13/95)

Dear Ms. Chu:

Please find attached a report dated June 13, 1995, which was prepared by Chevron's consultant, Geraghty & Miller, Inc. (G & M), to summarize the performance of the soil vapor extraction system through June 8, 1995.

I will continue submitting copies of these regular reports to your agency. If you have any questions or comments, I can be reached at (510) 842-8695.

Sincerely,

Brett L. Hunter  
Environmental Engineer  
Site Assessment and Remediation

Attachment

cc: Lester Feldman, San Francisco Bay RWQCB, Oakland, CA  
Janet Clinton (for Parkway Three), 2425 Webb Avenue, Suite 200, Alameda, CA 94501  
Bette Owen, Chevron USA, Products Company, San Ramon, CA (w/o attachment)

June 13, 1995  
Project No. RC0085.003

Mr. Brett Hunter  
Chevron U.S.A. Products Company  
6001 Bollinger Canyon Road  
P.O. Box 5004  
San Ramon, California 94583-0804

**SUBJECT:** Report on Hydrocarbon Recovery for Soil Vapor Extraction System at Former Chevron Service Station #9-2582, 7420 Dublin Blvd., Dublin, California.

Dear Mr. Hunter:

As requested, Geraghty & Miller, Inc. has prepared this report to document the mass of hydrocarbons extracted and treated by the soil-vapor extraction (SVE) system at the above-referenced site. On December 4, 1992, an inlet concentration controller (ICC) was installed to achieve a higher throughput of hydrocarbon-laden soil vapors, consume less electrical power, and require fewer site visits.

On June 24, 1994, the process controls were modified to achieve cyclic operation of 10 hours per day. This operational change was made to reduce the electric utility costs and reduce the per-pound operating cost of this system.

Temperature-recorder strip charts have been reviewed to integrate the total volume of hydrocarbons removed from the site. For each day of operation, an exotherm was ascertained (Table 1). Using the following formula (with data from June 8, 1995), the pounds per day were calculated and are totalled on Table 1:

$$75^{\circ}\text{F} \times \frac{0.24 \text{ BTU}}{\text{lb}^{\circ}\text{F}} \times \frac{92 \text{ ft}^3}{\text{min}} \times \frac{0.075 \text{ lb}}{\text{ft}^3} \times \frac{600 \text{ min}}{\text{day}} \times \frac{\text{lb}}{19,400 \text{ BTU}} = 3.8 \text{ lb/day VOCs extracted.}$$

where

75°F	average exotherm	0.075 lb/ft <sup>3</sup>	density of air
0.24 $\frac{\text{BTU}}{\text{lb}^{\circ}\text{F}}$	heat capacity of air	19,400 BTU/lb	net heat of combustion



Through June 8, 1995, a total of 13,470 pounds of hydrocarbons have been extracted as volatile organic compounds. There has been one shutdown since the installation of the digital timer on June 24, 1994. On February 8, 1995, a circuit breaker tripped for unknown reasons, shutting the system down. The system was restarted on February 28, 1995, and has operated continuously since then.

Geraghty & Miller appreciates the opportunity to be of service to Chevron U.S.A. Products Company. If you have any questions, please do not hesitate to call me at (510) 233-3200.

Sincerely,  
GERAGHTY & MILLER, INC.

*David B. Thomas*

David B. Thomas  
Project Engineer/Project Manager

Attachment: Table 1      Pounds Extracted in 1995 as VOCs Based on Temperature Chart Recorder Data

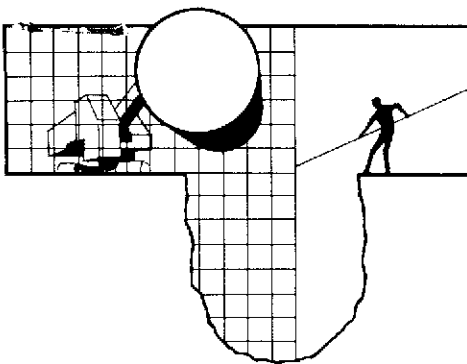


**Table 1: Pounds Extracted in 1995 as VOCs Based on Temperature Chart Recorder Data**  
 Former Chevron Service Station #9-2582, 7420 Dublin Blvd., Dublin, California.

Average Exotherm	Flow Rate	Pounds per day	Date	Average Exotherm	Flow Rate	Pounds per day	Date	Average Exotherm	Flow Rate	Pounds per day	Date	Average Exotherm	Flow Rate	Pounds per day	Date	Average Exotherm	Flow Rate	Pounds per day	Date	Average Exotherm	Flow Rate	Pounds per day	Date	Average Exotherm	Flow Rate	Pounds per day	Date	Average Exotherm	Flow Rate	Pounds per day	Date	Average Exotherm	Flow Rate	Pounds per day	Date	Average Exotherm	Flow Rate	Pounds per day
1-Jan-95	90 °F	92	5	2-Mar-95	85 °F	92	4	2-May-95	80 °F	92	4	2-Jul-95	°F	0	1-Sep-95	°F	0	1-Nov-95	°F	0																		
2-Jan-95	95 °F	92	5	3-Mar-95	85 °F	92	4	3-May-95	75 °F	92	4	3-Jul-95	°F	0	2-Sep-95	°F	0	2-Nov-95	°F	0																		
3-Jan-95	90 °F	92	5	4-Mar-95	85 °F	92	4	4-May-95	75 °F	92	4	4-Jul-95	°F	0	3-Sep-95	°F	0	3-Nov-95	°F	0																		
4-Jan-95	90 °F	92	5	5-Mar-95	90 °F	92	5	5-May-95	70 °F	92	4	5-Jul-95	°F	0	4-Sep-95	°F	0	4-Nov-95	°F	0																		
5-Jan-95	95 °F	92	5	6-Mar-95	95 °F	92	5	6-May-95	75 °F	92	4	6-Jul-95	°F	0	5-Sep-95	°F	0	5-Nov-95	°F	0																		
6-Jan-95	95 °F	92	5	7-Mar-95	90 °F	92	5	7-May-95	75 °F	92	4	7-Jul-95	°F	0	6-Sep-95	°F	0	6-Nov-95	°F	0																		
7-Jan-95	95 °F	92	5	8-Mar-95	90 °F	92	5	8-May-95	75 °F	92	4	8-Jul-95	°F	0	7-Sep-95	°F	0	7-Nov-95	°F	0																		
8-Jan-95	90 °F	92	5	9-Mar-95	90 °F	92	5	9-May-95	75 °F	92	4	9-Jul-95	°F	0	8-Sep-95	°F	0	8-Nov-95	°F	0																		
9-Jan-95	85 °F	92	4	10-Mar-95	100 °F	92	5	10-May-95	75 °F	92	4	10-Jul-95	°F	0	9-Sep-95	°F	0	9-Nov-95	°F	0																		
10-Jan-95	90 °F	92	5	11-Mar-95	95 °F	92	5	11-May-95	70 °F	92	4	11-Jul-95	°F	0	10-Sep-95	°F	0	10-Nov-95	°F	0																		
11-Jan-95	95 °F	92	5	12-Mar-95	90 °F	92	5	12-May-95	75 °F	92	4	12-Jul-95	°F	0	11-Sep-95	°F	0	11-Nov-95	°F	0																		
12-Jan-95	95 °F	92	5	13-Mar-95	85 °F	92	4	13-May-95	80 °F	92	4	13-Jul-95	°F	0	12-Sep-95	°F	0	12-Nov-95	°F	0																		
13-Jan-95	90 °F	92	5	14-Mar-95	90 °F	92	5	14-May-95	80 °F	92	4	14-Jul-95	°F	0	13-Sep-95	°F	0	13-Nov-95	°F	0																		
14-Jan-95	90 °F	92	5	15-Mar-95	90 °F	92	5	15-May-95	75 °F	92	4	15-Jul-95	°F	0	14-Sep-95	°F	0	14-Nov-95	°F	0																		
15-Jan-95	90 °F	92	5	16-Mar-95	90 °F	92	5	16-May-95	75 °F	92	4	16-Jul-95	°F	0	15-Sep-95	°F	0	15-Nov-95	°F	0																		
16-Jan-95	95 °F	92	5	17-Mar-95	85 °F	92	4	17-May-95	75 °F	92	4	17-Jul-95	°F	0	16-Sep-95	°F	0	16-Nov-95	°F	0																		
17-Jan-95	100 °F	92	5	18-Mar-95	70 °F	92	4	18-May-95	75 °F	92	4	18-Jul-95	°F	0	17-Sep-95	°F	0	17-Nov-95	°F	0																		
18-Jan-95	95 °F	92	5	19-Mar-95	75 °F	92	4	19-May-95	75 °F	92	4	19-Jul-95	°F	0	18-Sep-95	°F	0	18-Nov-95	°F	0																		
19-Jan-95	95 °F	92	5	20-Mar-95	90 °F	92	5	20-May-95	70 °F	92	4	20-Jul-95	°F	0	19-Sep-95	°F	0	19-Nov-95	°F	0																		
20-Jan-95	95 °F	92	5	21-Mar-95	85 °F	92	4	21-May-95	65 °F	92	3	21-Jul-95	°F	0	20-Sep-95	°F	0	20-Nov-95	°F	0																		
21-Jan-95	100 °F	92	5	22-Mar-95	90 °F	92	5	22-May-95	65 °F	92	3	22-Jul-95	°F	0	21-Sep-95	°F	0	21-Nov-95	°F	0																		
22-Jan-95	90 °F	92	5	23-Mar-95	80 °F	92	4	23-May-95	70 °F	92	4	23-Jul-95	°F	0	22-Sep-95	°F	0	22-Nov-95	°F	0																		
23-Jan-95	90 °F	92	5	24-Mar-95	70 °F	92	4	24-May-95	75 °F	92	4	24-Jul-95	°F	0	23-Sep-95	°F	0	23-Nov-95	°F	0																		
24-Jan-95	95 °F	92	5	25-Mar-95	70 °F	92	4	25-May-95	75 °F	92	4	25-Jul-95	°F	0	24-Sep-95	°F	0	24-Nov-95	°F	0																		
25-Jan-95	95 °F	92	5	26-Mar-95	70 °F	92	4	26-May-95	70 °F	92	4	26-Jul-95	°F	0	25-Sep-95	°F	0	25-Nov-95	°F	0																		
26-Jan-95	90 °F	92	5	27-Mar-95	75 °F	92	4	27-May-95	70 °F	92	4	27-Jul-95	°F	0	26-Sep-95	°F	0	26-Nov-95	°F	0																		
27-Jan-95	75 °F	92	4	28-Mar-95	60 °F	92	3	28-May-95	65 °F	92	3	28-Jul-95	°F	0	27-Sep-95	°F	0	27-Nov-95	°F	0																		
28-Jan-95	75 °F	92	4	29-Mar-95	75 °F	92	4	29-May-95	65 °F	92	3	29-Jul-95	°F	0	28-Sep-95	°F	0	28-Nov-95	°F	0																		
29-Jan-95	80 °F	92	4	30-Mar-95	70 °F	92	4	30-May-95	70 °F	92	4	30-Jul-95	°F	0	29-Sep-95	°F	0	29-Nov-95	°F	0																		
30-Jan-95	85 °F	92	4	31-Mar-95	80 °F	92	4	31-May-95	70 °F	92	4	31-Jul-95	°F	0	30-Sep-95	°F	0	30-Nov-95	°F	0																		
1-Feb-95	70 °F	92	4	1-Apr-95	65 °F	92	3	1-Jun-95	75 °F	92	4	1-Aug-95	°F	0	1-Oct-95	°F	0	1-Dec-95	°F	0																		
2-Feb-95	80 °F	92	4	2-Apr-95	70 °F	92	4	2-Jun-95	70 °F	92	4	2-Aug-95	°F	0	2-Oct-95	°F	0	2-Dec-95	°F	0																		
3-Feb-95	80 °F	92	4	3-Apr-95	75 °F	92	4	3-Jun-95	75 °F	92	4	3-Aug-95	°F	0	3-Oct-95	°F	0	3-Dec-95	°F	0																		
4-Feb-95	85 °F	92	4	4-Apr-95	70 °F	92	4	4-Jun-95	75 °F	92	4	4-Aug-95	°F	0	4-Oct-95	°F	0	4-Dec-95	°F	0																		
5-Feb-95	80 °F	92	4	5-Apr-95	85 °F	92	4	5-Jun-95	75 °F	92	4	5-Aug-95	°F	0	5-Oct-95	°F	0	5-Dec-95	°F	0																		
6-Feb-95	80 °F	92	4	6-Apr-95	80 °F	92	4	6-Jun-95	70 °F	92	4	6-Aug-95	°F	0	6-Oct-95	°F	0	6-Dec-95	°F	0																		
7-Feb-95	80 °F	92	4	7-Apr-95	85 °F	92	4	7-Jun-95	75 °F	92	4	7-Aug-95	°F	0	7-Oct-95	°F	0	7-Dec-95	°F	0																		
8-Feb-95	80 °F	92	4	8-Apr-95	75 °F	92	4	8-Jun-95	75 °F	92	4	8-Aug-95	°F	0	8-Oct-95	°F	0	8-Dec-95	°F	0																		
9-Feb-95	80 °F	92	4	9-Apr-95	75 °F	92	4	9-Jun-95	°F	0	9-Aug-95	°F	0	9-Oct-95	°F	0	9-Dec-95	°F	0																			
10-Feb-95	0 °F	92	0	10-Apr-95	70 °F	92	4	10-Jun-95	°F	0	10-Aug-95	°F	0	10-Oct-95	°F	0	10-Dec-95	°F	0																			
11-Feb-95	0 °F	92	0	11-Apr-95	75 °F	92	4	11-Jun-95	°F	0	11-Aug-95	°F	0	11-Oct-95	°F	0	11-Dec-95	°F	0																			
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14-Feb-95	0 °F	92	0	14-Apr-95	80 °F	92	4	14-Jun-95	°F	0	14-Aug-95	°F	0	14-Oct-95	°F	0	14-Dec-95	°F	0																			
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17-Feb-95	0 °F	92	0	17-Apr-95	80 °F	92	4	17-Jun-95	°F	0	17-Aug-95	°F	0	17-Oct-95	°F	0	17-Dec-95	°F	0																			
18-Feb-95	0 °F	92	0	18-Apr-95	75 °F	92	4	18-Jun-95	°F	0	18-Aug-95	°F	0	18-Oct-95	°F	0	18-Dec-95	°F	0																			
19-Feb-95	0 °F	92	0	19-Apr-95	80 °F	92	4	19-Jun-95	°F	0	19-Aug-95	°F	0	19-Oct-95	°F	0	19-Dec-95	°F	0																			
20-Feb-95	0 °F	92	0	20-Apr-95	75 °F	92	4	20-Jun-95	°F	0	20-Aug-95	°F	0	20-Oct-95	°F	0	20-Dec-95	°F	0																			
21-Feb-95	0 °F	92	0	21-Apr-95	80 °F	92	4	21-Jun-95	°F	0	21-Aug-95	°F	0	21-Oct-95	°F	0	21-Dec-95	°F	0																			
22-Feb-95	0 °F	92	0	22-Apr-95	80 °F	92	4	22-Jun-95	°F	0	22-Aug-95	°F	0	22-Oct-95	°F	0	22-Dec-95	°F	0																			
23-Feb-95	0 °F	92	0	23-Apr-95	80 °F	92	4	23-Jun-95	°F	0	23-Aug-95	°F	0	23-Oct-95	°F	0	23-Dec-95	°F	0																			
24-Feb-95	0 °F	92	0	24-Apr-95	85 °F	92	4	24-Jun-95	°F	0	24-Aug-95	°F	0	24-Oct-95	°F	0	24-Dec-95	°F	0																			
25-Feb-95	0 °F	92	0	25-Apr-95	70 °F	92	4	25-Jun-95	°F	0	25-Aug-95	°F	0	25-Oct-95	°F	0	25-Dec-95	°F	0																			
26-Feb-95	0 °F	92	0	26-Apr-95	75 °F	92	4	26-Jun-95	°F	0	26-Aug-95	°F	0	26-Oct-95	°F	0	26-Dec-95	°F	0																			
27-Feb-95	0 °F	92	0	27-Apr-95	70 °F	92	4	27-Jun-95	°F	0	27-Aug-95	°F	0	27-Oct-95	°F	0	27-Dec-95	°F	0																			
28-Feb-95	200 °F	92	10	28-Apr-95	70 °F	92	4	28-Jun-95	°F	0	28-Aug-95	°F	0	28-Oct-95	°F	0	28-Dec-95	°F	0																			
1-Mar-95	80 °F	92	4	29-Apr-95	70 °F	92	4	29-Jun-95	°F	0	29-Aug-95	°F	0	29-Oct-95	°F	0	29-Dec-95	°F	0																			
				30-Apr-95	70 °F	92	4	30-Jun-95	°F	0	30-Aug-95	°F	0	30-Oct-95	°F	0	30-Dec-95	°F	0																			
				1-May-95	75 °F	92	4	1-Jul-95	°F	0	31-Aug-95	°F	0	31-Oct-95	°F	0	31-Dec-95	°F	0																			

Pounds Extracted in 1995: 573  
 Pounds Extracted in 1994: 3,355  
 Pounds Extracted in 1993: 6,178  
 Pounds Extracted in 1992: 3,364  
 Total Pounds Extracted: 13,470





# BLAINE TECH SERVICES INC.

985 TIMOTHY DRIVE  
SAN JOSE, CA 95133  
(408) 995-5535  
FAX (408) 293-8773

August 25, 1995

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

## 2nd Quarter 1995 monitoring at 9-2582

Second Quarter 1995 Groundwater Monitoring at  
Chevron Service Station number 9-2582  
7240 Dublin Boulevard  
Dublin, California

Monitoring performed on June 7, 1995

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### Groundwater Sampling Report 950607-M-2

This report covers the routine quarterly monitoring of groundwater wells at this former Chevron facility. Blaine Tech Services, Inc. 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 Chevron's Richmond Refinery 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 on 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.

Yours truly,



James Keller  
for the Board of Directors

JPK/dk

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

# **Professional Engineering Appendix**



**GEOCONSULTANTS, INC.**

Engineering Geology • Hydrogeology  
Ground-Water Exploration & Development  
Ground-Water Resource Management

1480 K.E. Guile Blvd., #A  
San Jose, California 95128  
Telephone: (408) 452-2291  
Fax: (408) 452-2543

July 7, 1995  
Project No. G758-09

Mr. Richard Blaine  
Blaine Tech Services, Inc.  
985 Timothy Drive  
San Jose, CA 95133

**RE: GROUND-WATER ELEVATION CONTOUR MAP  
FORMER CHEVRON SERVICE STATION NO. 9-2582  
7240 DUBLIN BOULEVARD  
DUBLIN, CALIFORNIA**

Dear Mr. Blaine:

In accordance with your request, we have prepared a map showing the most recent ground-water elevation contours at this site. The depth to the water table was measured in the monitoring wells by Blaine Tech Services, Inc. on June 7, 1995. The ground-water elevation contours extrapolation and the general direction of the ground-water gradient indicated are to be considered only approximate in nature.

If you have any questions regarding the map, please call.

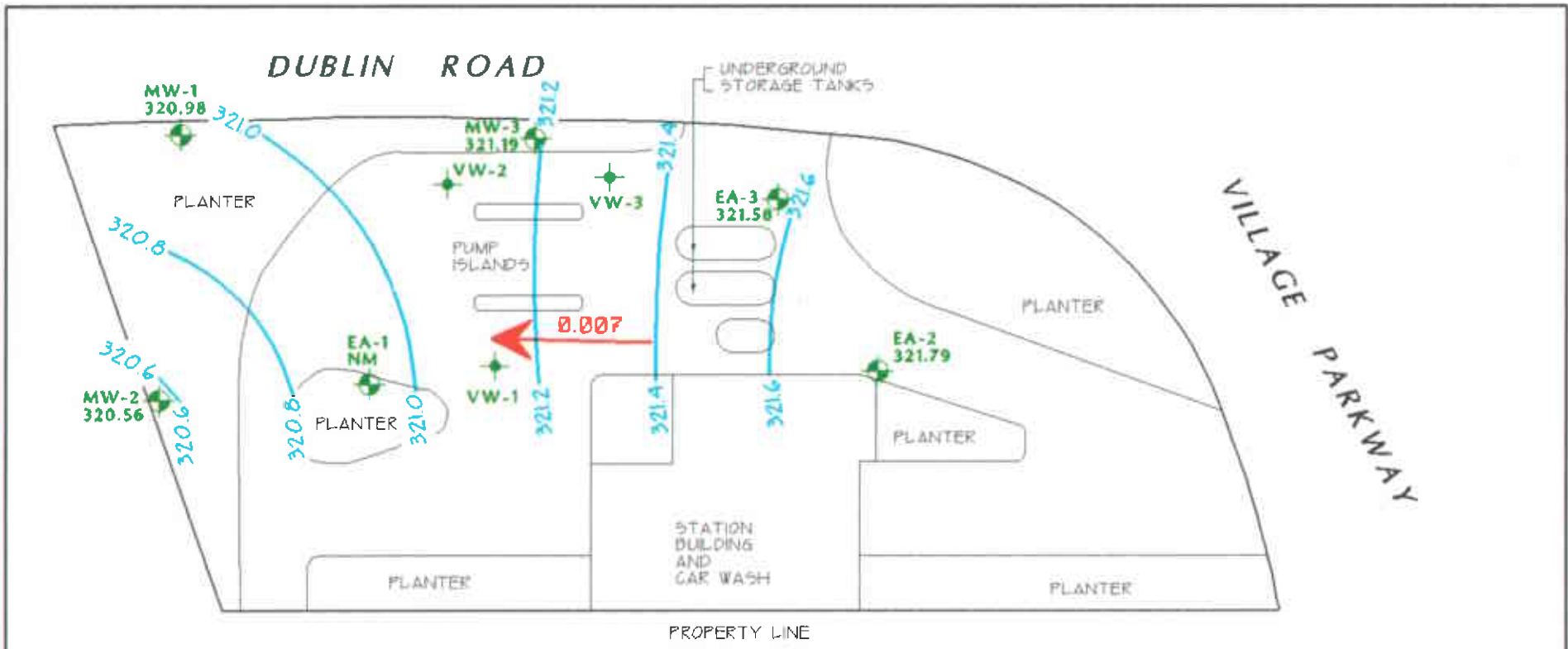
Very truly yours,

**GEOCONSULTANTS, INC.**





  
John K. Hofer  
Engineering Geologist, EG-1065

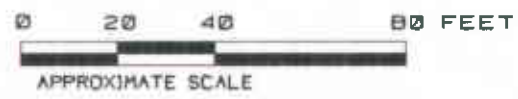
JKH:dw  
(CH92582.695)





**EXPLANATION**

- MW-2  GROUND-WATER MONITORING WELL
- 320.56 GROUND-WATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- VW-3  VADOSE MONITORING WELL
- NM NOT MEASURED
-  321.4 GROUND-WATER ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL
-  0.007 APPROXIMATE DIRECTION OF GROUND-WATER FLOW. GRADIENT INDICATED IN FEET / FEET



NOTES:	TITLE : GROUND-WATER ELEVATION CONTOUR MAP - JUNE 7, 1995	 <b>GEOCONSULTANTS, INC</b> SAN JOSE, CALIFORNIA Project No. 0750-09 DRWG NO: W060795 REV:
	LOCATION : FORMER CHEVRON SERVICE STATION #9-2582 7240 DUBLIN BOULEVARD, DUBLIN, CALIFORNIA	
	SOURCE : RESNA	

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

## Cumulative Table of Well Data and Analytical Results

Verical measurements are in feet.

Analytical values are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH- Gasoline	Benzene	Toluene	Ethyl- Benzene	Xylene	1,2-DCA	MTBE
<b>EA-1</b>											
10/17/88	333.41	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/24/88	333.41	322.77	10.64	Gauging	--	--	--	--	--	--	--
11/02/88	333.41	322.72	10.69	Gauging	--	--	--	--	--	--	--
12/20/88	333.41	322.90	10.51	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/28/89	333.41	323.54	9.87	--	<250	<0.5	<0.5	<0.5	<0.5	--	--
08/02/89	333.41	323.07	10.34	--	<50	<0.1	<0.1	<0.1	<0.1	<0.1	--
11/06/89	333.41	322.76	10.65	--	<500	<3.0	<5.0	<5.0	<5.0	<5.0	--
01/25/90	333.41	322.81	10.60	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
04/23/90	333.41	322.83	10.58	--	71	2.0	5.0	3.0	8.0	<0.5	--
08/01/90	333.41	322.53	10.88	--	300	86	21	10	33	--	--
10/24/91	333.41	322.29	11.12	--	280	69	13	11	16	--	--
01/31/91	333.41	322.25	11.16	--	460	160	11	17	17	--	--
08/21/91	333.41	322.61	10.80	--	2400	400	220	44	120	--	--
08/21/91	333.41	--	--	Duplicate	2300	390	210	42	120	--	--
10/07/91	333.41	322.62	10.79	Not sampled	--	--	--	--	--	--	--
01/28/92	333.41	322.62	10.79	--	3600	320	360	110	310	--	--
01/28/92	333.41	--	--	Duplicate	3000	290	320	99	270	--	--
06/05/92	333.41	322.57	10.84	--	1700	290	89	61	130	--	--
09/30/92	333.41	322.35	11.06	--	2100	160	260	80	350	--	--
12/30/92	333.41	323.26	10.15	Sheen, odor	3200	240	180	110	310	--	--
03/29/93	333.41	323.99	9.42	Odor	23,000	700	3000	610	--	--	--
06/25/93	333.41	322.99	10.42	--	2700	130	590	130	590	--	--
09/16/93	333.41	322.75	10.66	--	3900	410	830	220	890	--	--
12/20/93	333.41	322.81	10.60	--	27,000	1200	2600	1100	4200	--	--
03/29/94	333.41	323.00	10.41	--	6300	250	700	200	830	--	--
06/22/94	333.41	323.01	10.40	--	4100	71	240	110	460	<10	<30
09/20/94	333.41	323.04	10.37	--	8500	1200	1300	370	1400	--	--
10/04/94	333.41	323.07	10.34	--	7600	97	360	150	620	--	--
11/30/94	333.41	323.95	9.46	--	8800	180	490	240	900	--	--
03/02/95	331.03	321.07	9.96	--	6900	82	570	210	970	--	--
06/15/95	331.03	321.23	9.80	--	4800	44	210	160	620	--	<25

## Cumulative Table of Well Data and Analytical Results

Verical measurements are in feet.

Analytical values are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH- Gasoline	Benzene	Toluene	Ethyl- Benzene	Xylene	1,2-DCA	MTBE
<b>EA-2</b>											
10/17/88	332.59	--	--	--	<50	<0.5	<0.5	<0.5	1.2	--	--
10/24/88	332.59	322.89	9.70	Gauging	--	--	--	--	--	--	--
11/02/88	332.59	322.56	10.03	Gauging	--	--	--	--	--	--	--
12/20/88	332.59	322.61	9.98	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/28/89	332.59	323.79	8.80	--	<250	<2.	<0.5	<0.5	<0.5	<0.5	--
08/02/89	332.59	323.15	9.44	--	<50	<0.1	<0.1	<0.1	<0.1	<0.1	--
11/06/89	332.59	323.06	9.53	--	<500	<3.0	<5.0	<5.0	<5.0	<5.0	--
01/25/90	332.59	323.32	9.27	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
04/23/90	332.59	323.24	9.35	--	<50	0.6	0.8	<0.5	2.0	<0.5	--
08/01/90	332.59	322.88	9.71	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/24/90	332.59	322.51	10.08	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/31/91	332.59	322.38	10.21	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/31/91	332.59	--	--	Duplicate	<50	<0.5	<0.5	<0.5	<0.5	--	--
08/21/91	332.59	322.79	9.80	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/07/91	332.59	322.61	9.98	Not sampled	--	--	--	--	--	--	--
01/28/92	332.59	322.78	9.81	--	<50	0.8	<0.5	<0.5	<0.5	--	--
06/05/92	332.59	322.73	9.86	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/30/92	332.59	321.99	10.60	--	66	1.0	3.2	1.3	7.4	--	--
12/30/92	332.59	323.48	9.11	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/29/93	332.59	324.86	7.73	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
06/25/93	332.59	323.37	9.22	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
09/16/93	332.59	322.59	10.00	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
12/20/93	332.59	323.21	9.38	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/29/94	332.59	323.29	9.30	--	<50	<0.5	0.6	<0.5	<0.5	--	--
06/22/94	332.59	323.10	9.49	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/26/94	332.59	322.87	9.72	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/04/94	332.59	323.01	9.58	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/30/94	332.59	323.89	8.70	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/02/95	330.21	321.67	8.54	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/07/95	330.21	321.79	8.42	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5

## Cumulative Table of Well Data and Analytical Results

Verical measurements are in feet.

Analytical values are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH- Gasoline	Benzene	Toluene	Ethyl- Benzene	Xylene	1,2-DCA	MTBE
<b>EA-3</b>											
10/17/88	333.64	--	--	--	<50	1.8	<0.5	<0.5	3	--	--
10/24/88	333.64	322.61	11.03	Gauging	--	--	--	--	--	--	--
11/02/88	333.64	322.61	11.03	Gauging	--	--	--	--	--	--	--
12/20/88	333.64	322.68	10.96	--	240	90	1.2	13	3.3	--	--
03/28/89	333.64	322.87	9.77	--	2300	380	130	240	910	--	--
08/02/89	333.64	322.99	10.65	--	<50	<0.1	<0.1	<0.1	<0.1	<0.1	--
11/06/89	333.64	322.86	10.78	--	<500	<3.0	<5.0	<5.0	<5.0	<5.0	--
01/25/90	333.64	322.98	10.66	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
04/23/90	333.64	322.96	10.68	--	<50	0.8	<0.5	0.9	<0.5	<0.5	--
08/01/90	333.64	322.61	11.03	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/24/90	333.64	322.29	11.35	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/31/91	333.64	322.12	11.52	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
08/21/91	333.64	--	--	Not sampled	--	--	--	--	--	--	--
10/07/91	333.64	322.49	11.15	--	180	40	20	4.7	8.4	--	--
10/07/91	333.64	--	--	Duplicate	200	43	17	4.1	6.7	--	--
01/28/92	333.64	322.12	11.08	--	640	69	85	13	46	--	--
06/05/92	333.64	322.66	10.98	--	250	63	8.3	3.0	9.5	--	--
09/30/92	333.64	322.26	11.38	--	330	120	33	6.3	22	--	--
12/30/92	333.64	323.16	10.48	--	58	7.6	1.3	2.5	5.4	--	--
03/29/93	333.64	324.34	9.30	--	120	11	4.5	6.2	13	--	--
06/25/93	333.64	323.18	10.46	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
09/16/93	333.64	322.74	10.90	--	85	3.9	8.8	4.5	22	--	--
12/20/93	333.64	322.98	10.66	--	190	12	12	13	50	--	--
03/29/94	333.64	323.14	10.50	--	<50	<0.5	1.2	<0.5	0.9	--	--
06/22/94	333.64	323.00	10.64	--	<50	<0.5	<0.5	<0.5	<0.5	<1.0	<3.0
09/26/94	333.64	322.92	10.72	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/04/94	333.64	322.96	10.68	--	<50	<0.5	<0.5	<0.5	0.7	--	--
11/30/94	333.64	323.98	9.66	--	170	6.1	3.0	6.5	28	--	--
03/02/95	331.30	321.38	9.92	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/07/95	331.30	321.58	9.72	--	<50	<0.5	<0.5	<0.5	<0.5	--	3.2

## Cumulative Table of Well Data and Analytical Results

Vertical measurements are in feet.

Analytical values are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH- Gasoline	Benzene	Toluene	Ethyl- Benzene	Xylene	1,2-DCA	MTBE
<b>MW-1</b>											
10/04/94	333.56	320.76	12.80	--	2100	150	170	61	320	--	--
11/30/94	333.56	321.18	12.38	--	1500	210	17	73	130	--	--
03/02/95	333.56	320.68	12.88	--	2600	510	<10	160	<10	--	--
06/07/95	333.56	320.98	12.58	--	710	160	<2.0	45	<2.0	--	<10
<b>MW-2</b>											
10/04/94	329.18	320.62	8.56	--	2300	160	280	96	480	--	--
11/30/94	329.18	320.85	8.33	--	1600	170	16	110	120	--	--
03/02/95	329.18	320.83	8.35	--	1200	220	5.6	140	36	--	--
06/07/95	329.18	320.56	8.62	--	160	25	<0.5	16	<0.5	--	240
<b>MW-3</b>											
10/04/94	332.73	320.67	12.06	--	6300	610	750	68	670	--	--
11/30/94	332.73	321.35	11.38	--	17,000	3600	490	430	610	--	--
03/02/95	332.73	320.76	11.97	--	8500	2200	<50	240	<50	--	64,000
06/07/95	332.73	321.19	11.54	--	3000	710	18	220	44	--	3100
<b>PVC</b>											
08/02/89	--	--	11.52	--	100,000	8700	14,000	1700	17,000	50	--
08/02/89	--	--	--	Duplicate	110,000	9200	14000	1800	13,000	50	--
11/06/89	--	--	--	--	--	--	--	--	--	--	--
<b>EQUIPMENT BLANK</b>											
03/28/89	--	--	--	--	<250	<0.5	<0.5	<0.5	<0.5	--	--

## Cumulative Table of Well Data and Analytical Results

Verical measurements are in feet.

Analytical values are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH- Gasoline	Benzene	Toluene	Ethyl- Benzene	Xylene	1,2-DCA	MTBE
<b>TRIP BLANK</b>											
07/28/89	--	--	--	--	<50	<0.1	<0.1	<0.1	<0.1	<0.1	--
11/06/89	--	--	--	--	<500	<3.0	<0.5	<0.5	<0.5	<0.5	--
01/25/90	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
08/01/90	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
10/24/90	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/31/91	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
08/21/91	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/07/91	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/28/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/05/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/30/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/30/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/29/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
06/25/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
09/16/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
12/20/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/29/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/22/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/26/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/04/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/30/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/02/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/07/95	--	--	--	--	<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 September 30, 1992. Earlier field data and analytical results are drawn from the July 13, 1992 RENSA report.

**ABBREVIATIONS:**

TPH = Total Petroleum Hydrocarbons

1,2-DCA = 1,2-Dichloroethane

MTBE = Methyl-t-butylether

# **Analytical Appendix**





Blaine Technical Services	Client Proj. ID: Chevron 9-2582/950607-M2	Sampled: 06/07/95
985 Timothy Drive	Sample Descript: EA-2	Received: 06/08/95
San Jose, CA 95133	Matrix: LIQUID	
Attention: Jim Keller	Analysis Method: 8015Mod/8020	Analyzed: 06/12/95
	Lab Number: 9506540-01	Reported: 08/24/95


QC Batch Number: GC061295BTEX02B  
Instrument ID: GCHP02

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

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	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	91

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 9-2582/950607-M2 Sample Descript: EA-3 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9506540-02	Sampled: 06/07/95 Received: 06/08/95 Analyzed: 06/12/95 Reported: 08/24/95
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QC Batch Number: GC061295BTEX02B  
Instrument ID: GCHP02

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

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	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	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	Client Proj. ID: Chevron 9-2582/950607-M2	Sampled: 06/07/95
985 Timothy Drive	Sample Descript: MW-1	Received: 06/08/95
San Jose, CA 95133	Matrix: LIQUID	
Attention: Jim Keller	Analysis Method: 8015Mod/8020	Analyzed: 06/13/95
	Lab Number: 9506540-03	Reported: 08/24/95

QC Batch Number: GC061395BTEX02A  
Instrument ID: GCHP02

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

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	200	710
Benzene	2.0	160
Toluene	2.0	N.D.
Ethyl Benzene	2.0	45
Xylenes (Total)	2.0	N.D.
Chromatogram Pattern:		Gas
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	99

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 9-2582/950607-M2	Sampled: 06/07/95
985 Timothy Drive	Sample Descript: MW-2	Received: 06/08/95
San Jose, CA 95133	Matrix: LIQUID	
Attention: Jim Keller	Analysis Method: 8015Mod/8020	Analyzed: 06/12/95
	Lab Number: 9506540-04	Reported: 08/24/95


QC Batch Number: GC061295BTEX02B  
Instrument ID: GCHP02

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

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	160
Benzene	0.50	25
Toluene	0.50	N.D.
Ethyl Benzene	0.50	16
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		Gas
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	93

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 9-2582/950607-M2	Sampled: 06/07/95
985 Timothy Drive	Sample Descript: MW-3	Received: 06/08/95
San Jose, CA 95133	Matrix: LIQUID	
Attention: Jim Keller	Analysis Method: 8015Mod/8020	Analyzed: 06/13/95
	Lab Number: 9506540-05	Reported: 08/24/95

QC Batch Number: GC061395BTEX02A  
Instrument ID: GCHP02

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


Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	500	3000
Benzene	5.0	710
Toluene	5.0	18
Ethyl Benzene	5.0	220
Xylenes (Total)	5.0	44
Chromatogram Pattern:		Gas

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	93

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 9-2582/950607-M2 Sample Descript: TB Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9506540-06	Sampled: 06/07/95 Received: 06/08/95 Analyzed: 06/13/95 Reported: 08/24/95
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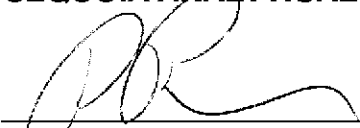
QC Batch Number: GC061395BTEX17A  
Instrument ID: GCHP17

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

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	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	76

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





**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 Technical Services 985 Timothy Drive San Jose, CA 95133 Attention: Jim Keller	Client Proj. ID: Chevron 9-2582/950607-M2 Lab Proj. ID: 9506540	Received: 06/08/95 Reported: 08/24/95
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### LABORATORY NARRATIVE

TPPH Note: Sample 9506540-03 was diluted 4-fold.  
Sample 9506540-05 was diluted 10-fold.

**SEQUOIA ANALYTICAL**

  
Peggy Penner  
Project Manager





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

Client Project ID: Chevron 9-2582/950607-M2  
Matrix: Liquid

Work Order #: 9506540 -01-02, 04

Reported: Jun 16, 1995

**QUALITY CONTROL DATA REPORT**

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC061295BTEX02B	GC061295BTEX02B	GC061295BTEX02B	GC061295BTEX02B
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	R. Vincent	R. Vincent	R. Vincent	R. Vincent
MS/MSD #:	950646304	950646304	950646304	950646304
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	6/12/95	6/12/95	6/12/95	6/12/95
Analyzed Date:	6/12/95	6/12/95	6/12/95	6/12/95
Instrument I.D.#:	GCHP2	GCHP2	GCHP2	GCHP2
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	8.8	8.8	8.8	27
MS % Recovery:	88	88	88	89
Dup. Result:	9.4	9.5	9.5	28
MSD % Recov.:	94	95	95	94
RPD:	6.6	7.7	7.7	5.8
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:	-	-	-	-
Prepared Date:	-	-	-	-
Analyzed Date:	-	-	-	-
Instrument I.D.#:	-	-	-	-
Conc. Spiked:	-	-	-	-
LCS Result:	-	-	-	-
LCS % Recov.:	-	-	-	-

MS/MSD LCS	71-133	72-128	72-130	71-120
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

9506540.BLA <1>







Blaine Tech Services, Inc. 985 Timothy Drive San Jose, CA 95133 Attention: Jim Keller	Client Project ID: Chevron 9-2582/950607-M2 Matrix: Liquid  Work Order #: 9506540-03, 05	Reported: Jun 16, 1995
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**QUALITY CONTROL DATA REPORT**

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC061395BTEX02A	GC061395BTEX02A	GC061395BTEX02A	GC061395BTEX02A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	J. Minkel	J. Minkel	J. Minkel	J. Minkel
MS/MSD #:	950646304	950646304	950646304	950646304
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	6/13/95	6/13/95	6/13/95	6/13/95
Analyzed Date:	6/13/95	6/13/95	6/13/95	6/13/95
Instrument I.D.#:	GCHP2	GCHP2	GCHP2	GCHP2
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	9.7	9.8	9.8	29
MS % Recovery:	97	98	98	97
Dup. Result:	9.9	10	10	30
MSD % Recov.:	99	100	100	100
RPD:	2.0	2.0	2.0	3.4
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:	-	-	-	-
Prepared Date:	-	-	-	-
Analyzed Date:	-	-	-	-
Instrument I.D.#:	-	-	-	-
Conc. Spiked:	-	-	-	-
LCS Result:	-	-	-	-
LCS % Recov.:	-	-	-	-

MS/MSD	LCS	Control Limits
71-133	72-128	72-130
71-120		

**SEQUOIA ANALYTICAL**

*[Signature]*  
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

9506540.BLA <2>





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

Client Project ID: Chevron 9-2582/950607-M2  
Matrix: Liquid

Work Order #: 9506540-06

Reported: Jun 16, 1995

**QUALITY CONTROL DATA REPORT**

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC061395BTEX17A	GC061395BTEX17A	GC061395BTEX17A	GC061395BTEX17A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	J. Minkel	J. Minkel	J. Minkel	J. Minkel
MS/MSD #:	950646304	950646304	950646304	950646304
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	6/13/95	6/13/95	6/13/95	6/13/95
Analyzed Date:	6/13/95	6/13/95	6/13/95	6/13/95
Instrument I.D.#:	GCHP17	GCHP17	GCHP17	GCHP17
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	8.7	9.3	9.2	27
MS % Recovery:	87	93	92	90
Dup. Result:	8.6	9.0	9.1	27
MSD % Recov.:	86	90	91	90
RPD:	1.2	3.3	1.1	0.0
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:	-	-	-	-
Prepared Date:	-	-	-	-
Analyzed Date:	-	-	-	-
Instrument I.D.#:	-	-	-	-
Conc. Spiked:	-	-	-	-
LCS Result:	-	-	-	-
LCS % Recov.:	-	-	-	-

MS/MSD				
LCS	71-133	72-128	72-130	71-120
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

9506540.BLA <3>





Blaine Tech Services, Inc. 985 Timothy Drive San Jose, CA 95133 Attention: Jim Keller	Client Project ID: Chevron 9-2582/950607-M2 Matrix: Liquid Work Order #: 9506540-01-02, 05	Reported: Jun 16, 1995
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**QUALITY CONTROL DATA REPORT**

Analyte:	1,1-Dichloroethene	Trichloroethene	Benzene	Toluene	Chloro-benzene
QC Batch#:	MS0611958240H6A	MS0611958240H6A	MS0611958240H6A	MS0611958240H6A	MS0611958240H6A
Analy. Method:	EPA 8240	EPA 8240	EPA 8240	EPA 8240	EPA 8240
Prep. Method:	N/A	N/A	N/A	N/A	N/A
Analyst:	M. Williams	M. Williams	M. Williams	M. Williams	M. Williams
MS/MSD #:	950639901	950639901	950639901	950639901	950639901
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	N/A	N/A	N/A	N/A	N/A
Analyzed Date:	6/11/95	6/11/95	6/11/95	6/11/95	6/11/95
Instrument I.D.#:	H6	H6	H6	H6	H6
Conc. Spiked:	50 µg/L	50 µg/L	50 µg/L	50 µg/L	50 µg/L
Result:	45	48	49	48	48
MS % Recovery:	90	96	98	96	96
Dup. Result:	43	46	47	46	47
MSD % Recov.:	86	92	94	92	94
RPD:	4.5	4.3	4.2	4.3	2.1
RPD Limit:	0-50	0-50	0-50	0-50	0-50

LCS #:	-	-	-	-	-
Prepared Date:	-	-	-	-	-
Analyzed Date:	-	-	-	-	-
Instrument I.D.#:	-	-	-	-	-
Conc. Spiked:	-	-	-	-	-
LCS Result:	-	-	-	-	-
LCS % Recov.:	-	-	-	-	-

MS/MSD	DL-234	71-157	37-151	47-150	37-160
LCS					
Control Limits					

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**

Peggy Penner  
Project Manager





Blaine Technical Services  
985 Timothy Drive  
San Jose, CA 95133

Client Proj. ID: Chevron 9-2582/950601-M2  
Sample Descript: EA-2  
Matrix: LIQUID  
Analysis Method: EPA 8020  
Lab Number: 9507H26-01

Sampled: 06/07/95  
Received: 06/10/95  
Analyzed: 06/12/95  
Reported: 07/27/95

QC Batch Number: GC061295BTEX02B  
Instrument ID: GCHP02

**Methyl t-Butyl Ether (MTBE)**

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	2.5	N.D.
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	91

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 9-2582/950601-M2 Sample Descript: EA-3 Matrix: LIQUID Analysis Method: EPA 8020 Lab Number: 9507H26-02	Sampled: 06/07/95 Received: 06/10/95 Analyzed: 06/12/95 Reported: 07/27/95
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QC Batch Number: GC061295BTEX02B  
Instrument ID: GCHP02

**Methyl t-Butyl Ether (MTBE)**

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	2.5	3.2
<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




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Peggy Penner  
Project Manager





Blaine Technical Services 985 Timothy Drive San Jose, CA 95133 Attention: Jim Keller	Client Proj. ID: Chevron 9-2582/950601-M2 Sample Descript: MW-1 Matrix: LIQUID Analysis Method: EPA 8020 Lab Number: 9507H26-03	Sampled: 06/07/95 Received: 06/10/95 Analyzed: 06/13/95 Reported: 07/27/95
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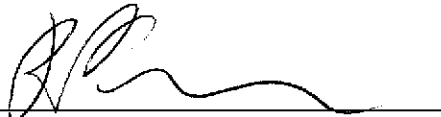
QC Batch Number: GC061395BTEX02A  
Instrument ID: GCHP02

**Methyl t-Butyl Ether (MTBE)**

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	10	N.D.
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70                      130	99

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 9-2582/950601-M2 Sample Descript: MW-2 Matrix: LIQUID Analysis Method: EPA 8020 Lab Number: 9507H26-04	Sampled: 06/07/95 Received: 06/10/95 Analyzed: 06/12/95 Reported: 07/27/95
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QC Batch Number: GC061295BTEX02B  
Instrument ID: GCHP02

**Methyl t-Butyl Ether (MTBE)**

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	2.5	240
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	93

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 9-2582/950601-M2	Sampled: 06/07/95
985 Timothy Drive	Sample Descript: MW-3	Received: 06/10/95
San Jose, CA 95133	Matrix: LIQUID	
Attention: Jim Keller	Analysis Method: EPA 8020	Analyzed: 06/13/95
	Lab Number: 9507H26-05	Reported: 07/27/95

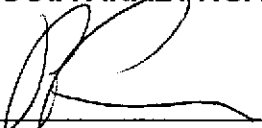
QC Batch Number: GC061395BTEX02A  
Instrument ID: GCHP02

**Methyl t-Butyl Ether (MTBE)**

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	25	3100
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70                      130	93

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	Client Proj. ID: Chevron 9-2582/950601-M2 Sample Descript: TB Matrix: LIQUID Analysis Method: EPA 8020 Lab Number: 9507H26-06	Sampled: 06/07/95 Received: 06/10/95 Analyzed: 06/13/95 Reported: 07/27/95
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QC Batch Number: GC061395BTEX17A  
Instrument ID: GCHP17

**Methyl t-Butyl Ether (MTBE)**

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	2.5	N.D.
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70                      130	76

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	Client Proj. ID: Chevron 9-2582/ 950615.S1 Sample Descript: EA-1 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9506A70-01	Sampled: 06/15/95 Received: 06/16/95 Analyzed: 06/19/95 Reported: 08/24/95
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QC Batch Number: GC061995BTEX20A  
Instrument ID: GCHP20

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


Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	500	4800
Benzene	5.0	44
Toluene	5.0	210
Ethyl Benzene	5.0	160
Xylenes (Total)	5.0	620
Chromatogram Pattern:		Gas

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	109

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 Attention: Jim Keller	Client Proj. ID: Chevron 9-2582/ 950615.S1  Lab Proj. ID: 9506A70	Received: 06/16/95  Reported: 08/24/95
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**LABORATORY NARRATIVE**

TPPH Note: Sample 9506A70-01 was diluted 10-fold.

**SEQUOIA ANALYTICAL**

Peggy Penner  
Project Manager





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

Client Project ID: Chevron 9-2582/950615.S1  
Matrix: Liquid

Work Order #: 9506A70 -01

Reported: Jun 28, 1995

**QUALITY CONTROL DATA REPORT**

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC061995BTEX20A	GC061995BTEX20A	GC061995BTEX20A	GC061995BTEX20A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	J. Minkel	J. Minkel	J. Minkel	J. Minkel
MS/MSD #:	950646605	950646605	950646605	950646605
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	6/19/95	6/19/95	6/19/95	6/19/95
Analyzed Date:	6/19/95	6/19/95	6/19/95	6/19/95
Instrument I.D.#:	GCHP20	GCHP20	GCHP20	GCHP20
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	9.3	9.2	9.1	27
MS % Recovery:	93	92	91	90
Dup. Result:	9.6	9.7	9.4	30
MSD % Recov.:	96	97	94	100
RPD:	3.2	5.3	3.2	11
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:	-	-	-	-
Prepared Date:	-	-	-	-
Analyzed Date:	-	-	-	-
Instrument I.D.#:	-	-	-	-
Conc. Spiked:	-	-	-	-
LCS Result:	-	-	-	-
LCS % Recov.:	-	-	-	-

MS/MSD LCS Control Limits	71-133	72-128	72-130	71-120
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**SEQUOIA ANALYTICAL**

Eggy 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

9506A70.BLA <1>





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

Client Proj. ID: Chevron 9-2582/950615-01  
Sample Descript: EA-1  
Matrix: LIQUID  
Analysis Method: EPA 8020  
Lab Number: 9507H25-01

Sampled: 06/16/95  
Received: 06/16/95  
Analyzed: 06/19/95  
Reported: 07/27/95

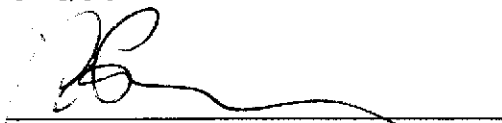
QC Batch Number: GC061995BTEX20A  
Instrument ID: GCHP20

**Methyl t-Butyl Ether (MTBE)**

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	25	N.D.
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	109

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

**SEQUOIA ANALYTICAL** - ELAP #1210



Peggy Penner  
Project Manager







# **Field Data Sheets**





# CHEVRON WELL MONITORING DATA SHEET

Project #: <u>950607-M2</u>	Station #: <u>9-2582</u>
Sampler: <u>MM</u>	Start Date: <u>6-7</u>
Well I.D.: <u>EA-1</u>	Well Diameter: (circle one) 2 3 4 6 <u>    </u>
Total Well Depth: <u>    </u>	Depth to Water: <u>    </u>
Before                      After	Before                      After
Depth to Free Product: <u>    </u>	Thickness of Free Product (feet): <u>    </u>
Measurements referenced to: <u>(PVC)</u>	Grade                      Other: <u>    </u>

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

_____	X	_____	=	_____
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:
						INACCESSIBLE WELL GOT LID STUCK. T-BAR TYPE TRIED TO CHISEL, STEAM CLEAN, HEAT WITH TORCH, WOULD NOT BUDGE

Did Well Dewater?	If yes, gals.	Gallons Actually Evacuated:
Sampling Time: _____	Sampling Date: _____	
Sample I.D.: _____	Laboratory: _____	
Analyzed for: (Circle) TPH-G BTEX TPH-D OTHER:		
Duplicate I.D.: _____	Cleaning Blank I.D.: _____	
Analyzed for: (Circle) TPH-G BTEX TPH-D OTHER:		

# CHEVRON WELL MONITORING DATA SHEET

Project #: <u>950607-M2</u>	Station #: <u>9-2582</u>
Sampler: <u>MM</u>	Start Date: <u>6-7</u>
Well I.D.: <u>EA-2</u>	Well Diameter: (circle one) 2 3 <u>6</u> 6
Total Well Depth: <u>39.08</u>	Depth to Water: <u>8.42</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

20.8 x 3 = 62.4  
 1 Case Volume                      Specified Volumes                      =                      gallons

Purging: Bailer Disposable Bailer Middleburg <del>Electric Submersible</del> Extraction Pump Other _____	Sampling: Bailer <del>Disposable Bailer</del> Extraction Port Other _____
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TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
14:02	70.0	7.5	8000	—	21	
14:05	67.8	7.0	7000	—	42	
14:08	67.6	7.0	7000	—	63	

Did Well Dewater? NO If yes, gals.                      Gallons Actually Evacuated: 63

Sampling Time: 14:10                      Sampling Date: 6-7

Sample I.D.: EA-2                      Laboratory: SLC

Analyzed for: (Circle) TPH-G BTEX    TPH-D    OTHER: 8240

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

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

# CHEVRON WELL MONITORING DATA SHEET

Project #: <u>950607-MD</u>	Station #: <u>9-2582</u>
Sampler: <u>MM</u>	Start Date: <u>6-7</u>
Well I.D.: <u>EA-3</u>	Well Diameter: (circle one) 2 3 <u>4</u> 6
Total Well Depth: <u>34.72</u>	Depth to Water: <u>9.72</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>16.5</u>	x	<u>3</u>	=	<u>49.5</u>
1 Case Volume		Specified Volumes		gallons

Purging: Bailer Disposable Bailer Middleburg <u>Electric Submersible</u> Extraction Pump Other _____	Sampling: Bailer <u>Disposable Bailer</u> Extraction Port Other _____
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TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
<u>14:22</u>	<u>73.0</u>	<u>7.1</u>	<u>5800</u>	—	<u>17</u>	
<u>14:24</u>	<u>70.8</u>	<u>7.0</u>	<u>5000</u>	—	<u>34</u>	
<u>14:26</u>	<u>70.2</u>	<u>7.0</u>	<u>5000</u>	—	<u>51</u>	

Did Well Dewater? <u>NO</u> If yes, gals.	Gallons Actually Evacuated: <u>51</u>
Sampling Time: <u>14:28</u>	Sampling Date: <u>6-7</u>
Sample I.D.: <u>EA-3</u>	Laboratory: <u>SEA</u>
Analyzed for: <u>TPH-G</u> <u>BTEX</u> TPH-D    OTHER:	<u>8240</u>
Duplicate I.D.:	Cleaning Blank I.D.:
Analyzed for: TPH-G    BTEX    TPH-D    OTHER:	
(Circle)	



# CHEVRON WELL MONITORING DATA SHEET

Project #: <u>950607-M2</u>	Station #: <u>9-2582</u>
Sampler: <u>man</u>	Start Date: <u>6-7</u>
Well I.D.: <u>NW-2</u>	Well Diameter: (circle one) <u>2</u> 3 4 6
Total Well Depth: <u>20.00</u>	Depth to Water: <u>8.62</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"	0.65	12"	5.87
5"	1.02	16"	10.43

<u>1.9</u>	$\times$	<u>3</u>	$=$	<u>5.7</u>	gallons
1 Case Volume		Specified Volumes			

Purging: Bailer Disposable Bailer <u>Middlebury</u> Electric Submersible Extraction Pump Other _____	Sampling: Bailer <u>Disposable Bailer</u> Extraction Port Other _____
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TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
<u>14:44</u>	<u>71.8</u>	<u>7.0</u>	<u>3000</u>	<u>—</u>	<u>2</u>	<u>SLIGHT</u>
<u>14:46</u>	<u>67.0</u>	<u>7.0</u>	<u>3000</u>	<u>—</u>	<u>4</u>	<u>OK</u>
<u>14:48</u>	<u>67.0</u>	<u>7.0</u>	<u>3000</u>	<u>—</u>	<u>6</u>	

Did Well Dewater? NO If yes, gals.                      Gallons Actually Evacuated: 6.0

Sampling Time: 14:50                      Sampling Date: 6-7

Sample I.D.: NW-2                      Laboratory: SLB

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

(Circle)

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

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

(Circle)

# CHEVRON WELL MONITORING DATA SHEET

Project #: <u>950607-M2</u>	Station #: <u>9-2582</u>
Sampler: <u>MN</u>	Start Date: <u>6-7</u>
Well I.D.: <u>MW-3</u>	Well Diameter: (circle one) <u>2</u> 3 4 6
Total Well Depth: <u>25.32</u>	Depth to Water: <u>11.54</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>2.3</u>	x	<u>3</u>	=	<u>6.9</u>	gallons
1 Case Volume		Specified Volumes			

Purging: Bailer Disposable Bailer <u>Middalburg</u> Electric Submersible Extraction Pump Other _____	Sampling: Bailer <u>Disposable Bailer</u> Extraction Port Other _____
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TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
<u>15:16</u>	<u>68.4</u>	<u>6.9</u>	<u>3000</u>	<u>—</u>	<u>3</u>	<u>ODOR/GNEY</u>
<u>15:18</u>	<u>66.0</u>	<u>6.9</u>	<u>3000</u>	<u>—</u>	<u>5</u>	
<u>15:20</u>	<u>65.8</u>	<u>6.9</u>	<u>3000</u>	<u>—</u>	<u>7</u>	

Did Well Dewater? NO If yes, gals. \_\_\_\_\_ Gallons Actually Evacuated: 7

Sampling Time: 15:25 Sampling Date: 6-7

Sample I.D.: MW-3 Laboratory: SLQ

Analyzed for: TPH-G BTEX TPH-D OTHER: 8270  
 (Circle)

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

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

# ~~Blank~~ WELL MONITORING DATA SHEET

Project #: 95061551 <del>9506</del> 9-2582	
Sampler: SHAWN HOUER	Date Sampled: 06/15/95
Well I.D.: EA-1	Well Diameter: (circle one) 2 3 <u>4</u> 6
Total Well Depth: Before 38.40 After	Depth to Water: Before 9.80 After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: <u>PVC</u>	Grade Other --

Volume Conversion Factor (VCF):  
 $VCF = (d^2/4) \times \pi / 2.31$   
 Where:  
 d = diameter (in.)  
 $\pi = 3.1416$   
 $2.31 = 2.31/ft$

Well dia.	VCF
2"	0.34
3"	0.77
4"	1.04
6"	2.17
8"	3.64
10"	5.17

<u>18.59</u>	x	<u>3</u>	=	<u>55.77</u>
1 Case Volume		Specified Volumes		gallons

Purging: Bailer <input type="checkbox"/> Middleburg <input type="checkbox"/> Electric Submersible <input type="checkbox"/> Suction Pump <input type="checkbox"/> Type of Installed Pump _____	Sampling: Bailer <input type="checkbox"/> Middleburg <input type="checkbox"/> Electric Submersible <input type="checkbox"/> Suction Pump <input type="checkbox"/> Installed Pump <input type="checkbox"/>
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TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
1626	60.4	8.0	2000		19	ODOR
1629	61.2	7.8	2000		38	
1632	60.6	8.0	1600		56	

Did Well Dewater? <u>NO</u> If yes, gals.	Gallons Actually Evacuated: <u>56</u>
Sampling Time: <u>1640</u>	
Sample I.D.: <u>EA-1</u>	Laboratory: <u>SEQUOIA</u>
Analyzed for: <u>TPH6, BTEX, 8240</u>	
Duplicate I.D.:	Cleaning Blank I.D.:
Analyzed for:	
Shipping Notations:	
Additional Notations:	