#4249

Chevron

July 13, 1999

Chevron Products Company
6001 Bollinger Canyon Road
Building L, Room 1080
PO Box 6004
San Ramon, CA 94583-0904

Philip R. Briggs
Project Manager
Site Assessment & Remediation
Phone 925 842-9136
Fax 925 842-8370

Mr. Barney Chan
Alameda County Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: Former Chevron Service Station # 9-4612
3616 San Leandro Street
Oakland, California

ENVIRONMENTAL PROTECTION
99 JUL 14 PM 3:04

Dear Mr. Chan:

Enclosed is the Second Quarter Groundwater Monitoring report for 1999 that was prepared by Blaine Tech Services, Inc. for the above noted site. The groundwater samples were analyzed for TPH-g, BTEX and MtBE constituents with monitoring well MW-3 also analyzed for the TPH-d constituent.

In accordance with your letter of May 4, 1998, ORC was added to wells VH-1, MW-2 and MW-3 on July 25 with sampling of the wells on July 29. The addition of the ORC is expected to increase the availability of oxygen in the soil and groundwater thereby providing an agent for biological reaction and the breakdown of hydrocarbon compounds to natural by products. Based on the results in this event, it appears that additional time will be required to see the effect of adding ORC.

The pre-purge dissolved oxygen (DO) reading in wells VH-1, MW-2, MW-3and MW-4 were 1.7, 0.2, 0.4, 2.8 mg/l respectively. The DO reading was similar in well VH-1 in the previous sampling event, while declining in wells MW-2 and MW-3. The DO reading increased in well MW-4 from the previous sampling event. Since the concentration of DO in wells VH-1, MW-2 and MW-3 continue to remain low it will be necessary to install additional ORC into these wells to increase the availability of oxygen for biological reaction. Additional ORC will be added to these wells at the next sampling event.

The benzene constituent increased in monitoring wells VH-1, MW-2 and MW-3 from the previous sampling event. All of the constituents in well MW-4 were below method detection levels.

Monitoring wells VH-1, MW-2 and MW-3 confirmed the presence of MtBE by EPA Method 8260. There is no explanation for the detection of MtBE at this site, as Chevron did not use this oxygenate in gasoline until 1991, while the tanks were removed in 1983.

The analysis for the TPH-d constituent in well MW-3 detected the presence of an unidentified hydrocarbon by its chromatogram pattern. This was in a concentration of 160 ppb, which is a decrease from the previous sampling event. Note that the concentration was not recorded in the analytical results, but is found on page 10 of the Analytical Appendix.

Depth to ground water varied from 7.95 feet to 9.30 feet below grade with the direction of flow south southwesterly.

Chevron will continue to monitor the site quarterly. If you have any questions or comments call me at (925) 842-9136.

Sincerely,
CHEVRON PRODUCTS COMPANY

Philip R. Briggs
Site Assessment and Remediation Project Manager

Enclosure

Cc. Mr. Jack Ratto
PO Box 6104
Oakland, CA. 94603-0104

Mr. Terry McIlraith
407 Castello Road
Lafayette, CA 94549

Ms. Bette Owen, Chevron

BLAINE
TECH SERVICES INC.

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

- MTBE @ low levels is comparable by 8020/8260
  " " hi levels is very different " " "
  MTBE
- need to include cumulative data for MW-4,
- need to add new ORC socks in UH-1, MW-2+3

July 7, 1999

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

2nd Quarter 1999 Monitoring at 9-4612

Second Quarter 1999 Groundwater Monitoring at
Chevron Service Station Number 9-4612
3616 San Leandro St.
Oakland, CA

Monitoring Performed on May 13, 1999

Groundwater Sampling Report **990513-J-3**

This report covers the routine monitoring of groundwater wells at this Chevron facility. Blaine Tech Services, Inc.'s work at the site includes inspection, gauging, evacuation, purgewater containment, sample collection and sample handling in accordance with standard procedures that conform to Regional Water Quality Control Board requirements.

Routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated volume of a three-case volume purge, elapsed evacuation time, total volume of water removed, and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater is, likewise, collected and transported to McKittrick Waste Treatment Site for disposal.

Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL DATA AND ANALYTICAL RESULTS**. The full analytical report for the most recent samples is located in the **Analytical Appendix**. The table also contains new groundwater elevation calculations taken from the computer plotted gradient

map which is located in the **Professional Engineering Appendix**.

At a minimum, Blaine Tech Services, Inc. field personnel are certified upon completion of a forty-hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight hour refresher courses.

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. concentrates on objective data collection and does not participate in the interpretation of analytical results, the definition of geological or hydrological conditions, the formulation of recommendations, or the marketing of remedial systems.

Please call if you have any questions.

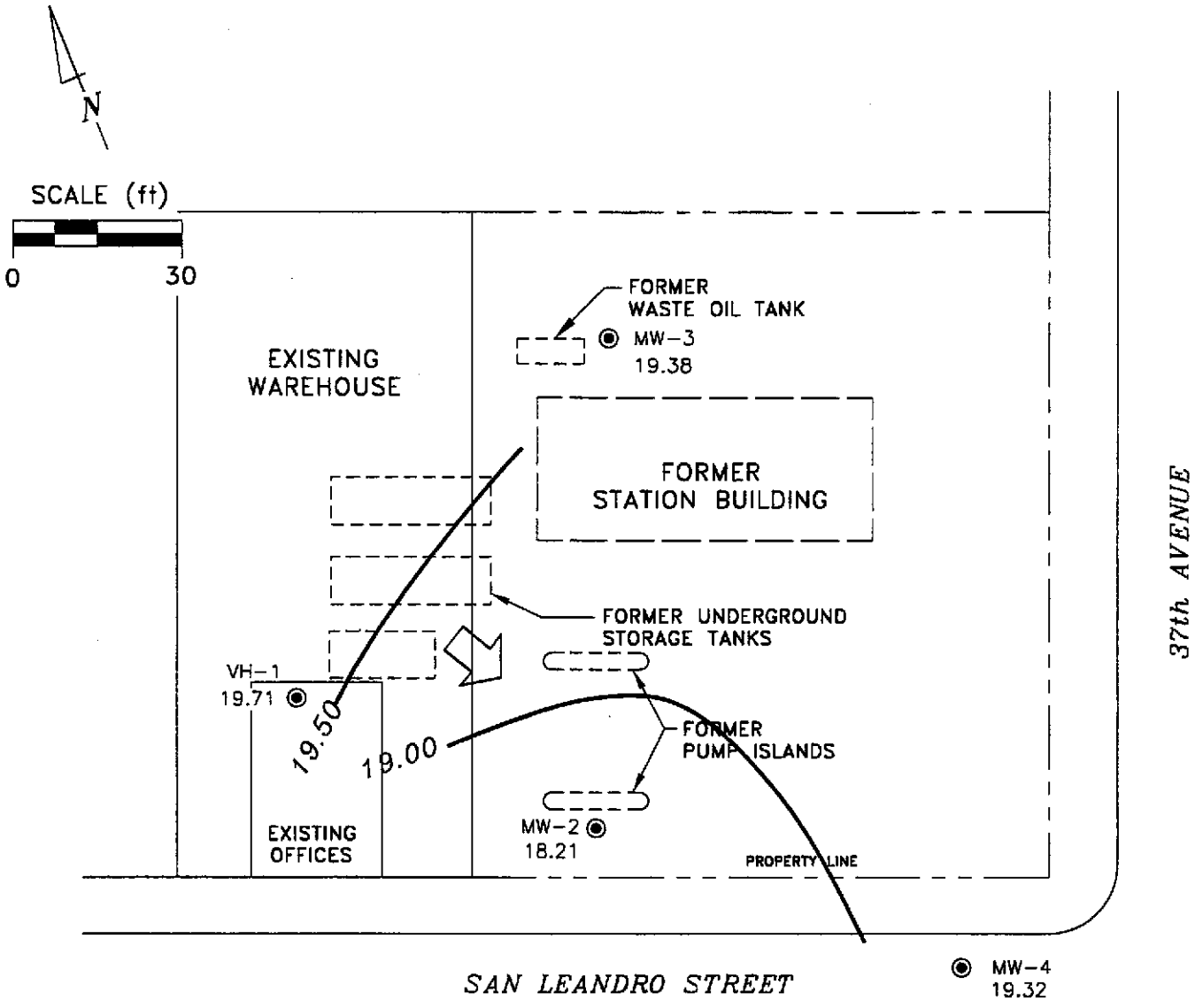
Yours truly,

Christine Lillie

Christine Lillie
Project Coordinator

CAL/sb

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



REGISTERED GEOLOGIST
STEVEN E. KRCIK
No. 1975
3/1/00
STATE OF CALIFORNIA

EXPLANATION

- ◉ MONITORING WELL
- 19.32 GROUNDWATER ELEVATION (FT, MSL)
- 19.50 — GROUNDWATER ELEVATION CONTOUR (FT, MSL)
- APPROXIMATE GROUNDWATER FLOW DIRECTION; APPROXIMATE GRADIENT = 0.03

Basemap from Cambria Environmental Technology, Inc.

PREPARED BY RRM engineering contracting firm	**Chevron Station 9-4612** 3616 San Leandro Street Oakland, California **GROUNDWATER ELEVATION CONTOUR MAP, MAY 13, 1999**	FIGURE: 1 PROJECT: DAC04

Table of
Well Data and
Analytical Results

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet. Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	TPH-Diesel	TOG	HVOC	MTBE	MTBE by 8260
VH-1														
08/10/88	--	--	13.00	--	11,000	3300	200	520	540	--	--	--	--	--
06/01/89	--	--	10.32	--	15,000	2200	120	540	310	--	--	--	--	--
09/15/89	--	--	15.69	--	5600	1900	90	350	160	--	--	--	--	--
12/08/89	--	--	14.77	--	11,000	1900	69	270	99	--	--	--	--	--
03/07/91	--	--	11.26	--	4500	820	39	120	77	--	--	--	--	--
09/24/91	--	--	12.98	--	3300	520	19	39	27	--	--	--	--	--
01/08/92	--	--	13.77	--	5000	600	34	81	76	--	--	--	--	--
04/20/92	--	--	8.18	--	7400	670	60	110	140	--	--	--	--	--
03/26/93	27.85	21.14	6.71	--	4900	600	40	72	94	--	--	--	--	--
05/27/93	27.85	19.27	8.58	--	13,000	1600	120	230	220	--	--	--	--	--
08/18/93	27.85	17.39	10.46	--	2700	210	10	8.1	18	--	--	--	--	--
11/03/93	27.85	15.28	12.57	--	4600	680	42	35	68	--	--	--	--	--
02/10/94	27.85	18.77	9.08	--	1900	260	19	22	29	--	--	--	--	--
05/12/94	27.85	19.76	8.09	--	2000	390	28	3.9	29	--	--	--	--	--
08/26/94	27.85	17.10	10.75	--	4900	500	<5.0	23	31	--	--	--	--	--
11/14/94	27.85	18.40	9.45	--	760	69	<2.0	<2.0	2.2	300	--	--	--	--
02/01/95	27.85	21.88	5.97	--	1300	120	5.9	<0.5	13	--	--	--	--	--
05/12/95	27.85	20.14	7.71	--	4400	460	31	45	49	--	--	--	--	--
08/22/95	27.85	18.59	9.26	--	2900	310	15	28	32	--	--	--	--	--
12/19/95	27.85	19.05	8.80	--	930	53	<2.5	<2.5	<2.5	--	--	--	39	--
01/31/96	27.85	22.35	5.50	--	3700	320	<10	41	40	--	--	--	180	--
04/30/96	27.85	19.81	8.04	--	3900	270	<20	<20	<20	--	--	--	120	--
08/01/96	27.85	18.67	9.18	--	2700	140	11	18	28	--	--	--	200	--
10/30/96	27.85	18.67	10.76	--	2700	140	<12	<12	<12	--	--	--	280	--
02/07/97	27.85	19.75	8.10	--	220	13	0.6	<0.5	1.6	--	--	--	15	--
05/07/97	27.85	18.33	9.52	--	5200	33	12	21	26	--	--	--	330	--
07/22/97	27.85	17.43	10.42	--	4200	80	<10	16	24	--	--	--	400	--
11/03/97	27.85	16.85	11.00	--	2400	150	6.8	6.5	9.5	--	--	--	510	--
01/28/98	27.85	20.75	7.10	--	850	69	4.8	5.0	11	--	--	--	38	48
05/08/98	27.85	20.14	7.71	--	4200	200	30	40	42	--	--	--	310	200
07/29/98	27.85	18.40	9.45	--	3800	54	10	27	30	--	--	--	35	290
11/06/98	27.85	17.15	10.70	--	4800	100	20	12	23	--	--	--	360	210
02/09/99	27.85	21.87	5.98	ORC socks installed	2950	79.5	<10	<10	<10	--	--	--	435	312
05/13/99	27.85	19.71	8.14	--	4180	147	12.8	16.5	20.3	--	--	--	433	245

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet. Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	TPH-Diesel	TOG	HVOC	MTBE	MTBE by 8260
MW-2														
02/16/93	27.51	--	--	--	9200	720	110	250	170	--	--	--	--	--
03/26/93	27.51	19.89	7.62	--	--	--	--	--	--	--	--	--	--	--
05/27/93	27.51	18.04	9.47	--	360	5.3	2.1	1.8	2.5	--	--	--	--	--
08/18/93	27.51	16.46	11.05	--	9400	1100	76	110	100	--	--	--	--	--
11/03/93	27.51	14.56	12.95	--	8600	390	20	2.7	120	--	--	--	--	--
02/10/94	27.51	17.72	9.79	--	2700	370	38	44	41	--	--	--	--	--
05/12/94	27.51	18.59	8.92	--	3800	650	76	15	62	--	--	--	--	--
08/26/94	27.51	16.14	11.37	--	16,000	1300	270	28	120	--	--	--	--	--
11/14/94	27.51	17.48	10.03	--	5100	390	10	43	27	--	--	--	--	--
02/01/95	27.51	20.47	7.04	--	6900	520	82	170	110	--	--	--	--	--
05/12/95	27.51	18.76	8.75	--	7700	510	83	110	100	--	--	--	--	--
08/22/95	27.51	17.35	10.16	--	4500	220	16	61	47	--	--	--	--	--
12/19/95	27.51	18.05	9.46	--	2900	240	<10	19	18	--	--	--	220	--
01/31/96	27.51	21.91	5.60	--	3900	320	18	72	39	--	--	--	<25	--
04/30/96	27.51	18.68	8.83	--	5600	200	36	55	47	--	--	--	170	--
08/01/96	27.51	17.25	10.26	--	6200	190	15	62	59	--	--	--	220	--
10/30/96	27.51	17.25	11.48	--	5700	190	<25	67	36	--	--	--	260	--
02/07/97	27.51	18.11	9.40	--	8300	210	34	70	59	--	--	--	330	--
05/07/97	27.51	17.57	9.94	--	6900	190	12	38	37	--	--	--	530	--
07/22/97	27.51	16.36	11.15	--	10,000	18	25	62	41	--	--	--	630	--
11/03/97	27.51	15.93	11.58	--	6500	260	8.5	26	14	--	--	--	590	--
11/03/97	27.51	15.93	11.58	Confirmation run	--	--	--	--	--	--	--	--	--	96
01/28/98	27.51	19.38	8.13	--	6700	65	13	67	54	--	--	--	280	94
05/08/98	27.51	18.89	8.62	--	5500	91	38	43	61	--	--	--	220	62
07/29/98	27.51	17.06	10.45	--	3600	41	8.9	3.6	14	--	--	--	16	94
11/06/98	27.51	15.89	11.62	--	6900	77	<5.0	14	17	--	--	--	290	110
02/09/99	27.51	20.61	6.90	ORC socks installed	8070	75.6	<10	<10	<10	--	--	--	397	144
05/13/99	27.51	18.21	9.30	--	5890	120	<5.0	12.5	26.6	--	--	--	401	69.4

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet. Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	TPH-Diesel	TOG	HVOC	MTBE	MTBE by 8260
MW-3														
02/16/93	28.50	--	--	--	3500	<0.5	8.1	4.6	7.7	--	--	--	--	--
03/26/93	28.50	21.32	7.18	--	--	--	--	--	--	--	--	--	--	--
05/27/93	28.50	19.17	9.33	--	4200	580	84	150	100	--	--	--	--	--
08/18/93	28.50	16.50	12.00	--	910	12	3.7	6.2	3.8	1400	<5000	ND	--	--
11/03/93	28.50	15.21	13.29	--	5300	29	1.9	0.6	27	--	--	--	--	--
02/10/94	28.50	18.87	9.63	--	63	<0.5	0.7	<0.5	<0.5	<50	--	--	--	--
05/12/94	28.50	19.73	8.77	--	<50	<0.5	0.5	<0.5	<0.5	84	--	--	--	--
08/26/94	28.50	17.08	11.42	--	2100	12	<0.5	5.0	0.5	--	--	--	--	--
11/14/94	28.50	18.43	10.07	--	140	0.78	<0.5	<0.5	<0.5	--	--	--	--	--
02/01/95	28.50	22.21	6.29	--	<50	<0.5	<0.5	<0.5	<0.5	<50	--	--	--	--
05/12/95	28.50	20.43	8.07	--	330	13	1.1	1.9	0.69	540*	--	--	--	--
08/22/95	28.50	18.55	9.95	--	980	32	<1.0	<1.0	<1.0	550*	--	--	--	--
12/19/95	28.50	19.10	9.40	--	<50	<0.5	<0.5	<0.5	<0.5	<50	--	--	<2.5	--
01/31/96	28.50	23.45	5.05	--	<50	<0.5	<0.5	<0.5	<0.5	<50	--	--	<2.5	--
04/30/96	28.50	20.10	8.40	--	320	2.4	<0.5	0.75	<0.5	240*	--	--	7.8	--
08/01/96	28.50	18.70	9.80	--	980	9.6	<0.5	0.98	2.2	470*	--	--	54	--
10/30/96	28.50	18.70	11.48	--	2000	14	<10	<10	<10	760*	--	--	140	--
02/07/97	28.50	19.90	8.60	--	200*	<0.5	<0.5	<0.5	<0.5	61*	--	--	8.9	--
05/07/97	28.50	19.49	9.01	--	3500	14	3.9	3.6	8.0	550*	--	--	160	--
07/22/97	28.50	17.38	11.12	--	3500	55	<10	<10	<10	800*	--	--	150	--
11/03/97	28.50	16.99	11.51	--	4100	140	<5.0	<5.0	<5.0	910*	--	--	380	--
01/28/98	28.50	21.16	7.34	--	1100	24	<1.2	<1.2	2.8	--	--	--	33	6.1
05/08/98	28.50	20.44	8.06	--	990	3.6	7.7	0.70	2.2	250*	--	--	37	7.5
07/29/98	28.50	18.25	10.25	--	1200	13	<0.5	<0.5	1.4	290*	--	--	11	28
11/06/98	28.50	17.11	11.39	--	2600	5.3	<2.5	<2.5	3.0	390*	--	--	91	41
02/09/99	28.50	22.40	6.10	ORC socks installed	406	<1.0	4.03	<1.0	<1.0	184*	--	--	17.7	1.97
05/13/99	28.50	19.38	9.12	--	615	13.8	1.05	<0.5	<0.5	--	--	--	43.5	21.2

* Chromatogram pattern indicates an unidentified hydrocarbon.

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342
1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Sequoia Analytical	Client Project ID:	L905229- Blaine Tech Services, Inc.	Sampled:	May 13, 1999
1551Industrial Blvd.	Sample Matrix:	Water	Received:	May 17, 1999
San Carlos, CA. 94070	Analysis Method:	EPA 3510/8015 Mod.	Reported:	May 24, 1999
Attention: Mike Gregory	First Sample #:	905-1184		

QC Batch Number: SP051999 SP051999

8015EXA 8015EXA

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit µg/L	Sample I.D. 905-1184 MW-3	Sample I.D. Method Blank
Extractable Hydrocarbons	50	160	N.D.
Chromatogram Pattern:		Unidentified Hydrocarbons C10 - C24	--

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0
Date Extracted:	5/19/99	5/19/99
Date Analyzed:	5/19/99	5/19/99
Instrument Identification:	HP-3A	HP-3B

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

SEQUOIA ANALYTICAL, #1271

Charlie Westwater
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342
1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Sequoia Analytical
1551Industrial Blvd.
San Carlos, CA. 94070
Attention: Mike Gregory

Client Project ID: L905229- Blaine Tech Services, Inc.
Matrix: Liquid

QC Sample Group: 905-1184

Reported: May 24, 1999

QUALITY CONTROL DATA REPORT

Analyte:	Diesel
QC Batch#:	SP051999
	8015EXA
Analy. Method:	EPA 8015M.
Prep. Method:	EPA 3510
Analyst:	K. Grubb
MS/MSD #:	BLK051999
Sample Conc.:	N.D.
Prepared Date:	5/19/99
Analyzed Date:	5/19/99
Instrument I.D.#:	HP-3B
Conc. Spiked:	500 µg/L
Result:	370
MS % Recovery:	74
Dup. Result:	410
MSD % Recov.:	82
RPD:	10
RPD Limit:	0-50

LCS #:	LCS051999
Prepared Date:	5/19/99
Analyzed Date:	5/19/99
Instrument I.D.#:	HP-3B
Conc. Spiked:	500 µg/L
LCS Result:	330
LCS % Recov.:	66
LCSD Result:	300
LCSD % Recov.:	60
MS/MSD	50-150
LCS	60-140
Control Limits	

SEQUOIA ANALYTICAL, #1271

Charlie Westwater
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

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

Chain-of-Custody-Record

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

Chevron Facility Number 9-4612
Facility Address 3616 San Leandro St.
Consultant Project Number 9905-13-J3
Consultant Name BLAINE TECH SERVICE, INC. L905229
Address 1680 ROGERS AVE., SAN JOSE
Project Contact (Name) CHRISTINE LILLIE
(Phone) 408-573-0555 (Fax Number) 408-573-7771

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

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

Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Sample Preservation	Date/Time	BTEX/MTBE+TPH GAS (8020 + 8015) *	BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oxygenates (8260)	Purgeable Halocarbons (8010)	Purgeable Organics (8260)	Extractable Organics (8270)	Oil and Grease (5520)	Metals (ICAP or AA) Cd,Cr,Pb,Zn,Ni	BTEX (8020)	BTEX/MTBE/Naph. (8020)	TPH - HCID	TPH-D Extended	Lab Sample No.	Remarks
VH1 ✓	3																	*	MTBE by 8020 and 8260
MW2 ✓	3																		
MW3 ✓	5	X					X												
MW4	3																		
TB ✓	2																		

GAS/BTEX/MTBE 8260 → SC

TPHD - WC

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced Y/N	Turn Around Time (Circle Choice)
	BTS	5/14/99 11:45	Steve Ten	SEQ	5/14/99 11:50		24 Hrs.
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced Y/N	48 Hrs.
2	SEQ	5/14/99 8:30					5 Days
(Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time	Iced Y/N	10 Days
							As Contracted

Field
Data
Sheets

WELL GAUGING DATA

Project # 990513-J3 Date 5-13-99 Client CHSA

Site 3616 San Leandro

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
VH1	4					8.14	28.37	TOC	
MW2	2					9.30	19.50		
MW3	2					9.12	19.08		
MW4	2					7.95	18.85		

CHEVRON WELL MONITORING DATA SHEET

Project #: 990513-53	Station #: 9-4612
Sampler: Jon P	Date: 5-13-99
Well I.D.: VH1	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 28.37	Depth to Water: 8.14
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

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

Purge Method: Bailer / Disposable Bailer / Middleburg / Electric Submersible X / Extraction Pump / Other: ___

Sampling Method: Bailer / Disposable Bailer X / Extraction Port / Other: ___

13.1 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 39.4 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
*	well	contains	ORC		
1610	68.4	6.0	1100	14	rusty red color
1612	67.6	7.0	1090	27	clear no color
1614	67.6	8.0	1090	40	no color

Did well dewater? Yes (No) Gallons actually evacuated: 40

Sampling Time: 1620 Sampling Date: 5-13-99

Sample I.D.: VH1 Laboratory: (Sequoia) CORE N. Creek Assoc. Labs

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

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

D.O. (if req'd):	Pre-purge:	1.7 mg/L	Post-purge:		mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

CHEVRON WELL MONITORING DATA SHEET

Project #: 990513-J3	Station #: 9-4612
Sampler: Jon P	Date: 5-13-99
Well I.D.: MW2	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 19.50	Depth to Water: 9.30
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

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

Purge Method: Bailer / Disposable Bailer X / Middleburg / Electric Submersible / Extraction Pump / Other: ___

Sampling Method: Bailer / Disposable Bailer X / Extraction Port / Other: ___

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

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
*	ORC	in well			
1655	69.2	6.4	880	1.75	
1658	64.2	7.4	840	3.25	
701	64.4	7.0	820	5	

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

Sampling Time: 1705 Sampling Date: 15-13-99

Sample I.D.: MW2 Laboratory: (Sequoia) CORE N. Creek Assoc. Labs

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

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

D.O. (if req'd):	Pre-purge:	0.2 mg/L	Post-purge:		mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

CHEVRON WELL MONITORING DATA SHEET

Project #: 990513-53	Station #: 9-4612
Sampler: Jon P	Date: 5-13-99
Well I.D.: MW3	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 19.08	Depth to Water: 9.12
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

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

Purge Method: Bailer / Disposable Bailer X / Middleburg / Electric Submersible / Extraction Pump / Other: ___

Sampling Method: Bailer / Disposable Bailer X / Extraction Port / Other: ___

1.5 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 4.7 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1724	63.6	6.0	1090	1.5	
1727	62.2	6.0	1090	3.0	
1730	63.0	6.0	1080	4.75	

Did well dewater? Yes (No) Gallons actually evacuated: 4.75

Sampling Time: 1735 Sampling Date: 5-13-99

Sample I.D.: MW3 Laboratory: (Sequoia) CORE N. Creek Assoc. Labs

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

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

D.O. (if req'd):	Pre-purge:	0.4 mg/L	Post-purge:		mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

CHEVRON WELL MONITORING DATA SHEET

Project #: 990513-J3	Station #: 9-4612
Sampler: Jon P	Date: 5-13-99
Well I.D.: MW4	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 18.85	Depth to Water: 7.95
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

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

Purge Method: Bailer / Disposable Bailer X / Middleburg / Electric Submersible / Extraction Pump / Other: ___

Sampling Method: Bailer / Disposable Bailer X / Extraction Port / Other: ___

1.7 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 5.2 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1531	62.6	7.0	480	1.75	
1534	63.8	6.0	700	3.50	
1537	64.0	7.0	720	5.25	

Did well dewater? Yes (No) Gallons actually evacuated: 5.25

Sampling Time: 1542 Sampling Date: 5-13-99

Sample I.D.: MW4 Laboratory: (Sequoia) CORE N. Creek Assoc. Labs

Analyzed for: (TPH-G BTEX MTBE) TPH-D . Other: MTBE by 8020 & 8260

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

D.O. (if req'd):	Pre-purge:	2.8 mg/L	Post-purge:		mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		m

Sequoia Analytical

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

Blaine Tech Services	Project:	Chevron(8)	Sampled: 5/13/99
1680 Rogers Avenue	Project Number:	Chevron/9-4612/990513-J3	Received: 5/14/99
San Jose, CA 95112	Project Manager:	Christine Lillie	Reported: 5/28/99

Sample Description: **MW3**
Laboratory Sample Number: **L905229-03**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9050113	5/25/99	5/25/99		50.0	**615**	ug/l	1
Benzene	"	"	"		0.500	**13.8**	"	
Toluene	"	"	"		0.500	**1.05**	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	**43.5**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*97.2*	%	
MTBE by EPA Method 8260A								
Methyl tert-butyl ether	9050090	5/19/99	5/20/99		2.00	**21.2**	ug/l	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	*76.0-114*		*105*	%	

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Blaine Tech Services	Project:	Chevron(8)	Sampled: 5/13/99
1680 Rogers Avenue	Project Number:	Chevron/9-4612/990513-J3	Received: 5/14/99
San Jose, CA 95112	Project Manager:	Christine Lillie	Reported: 5/28/99

Sample Description: **MW4**
Laboratory Sample Number: **L905229-04**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9050113	5/25/99	5/25/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*113*	%	
MTBE by EPA Method 8260A								
Methyl tert-butyl ether	9050090	5/19/99	5/20/99		2.00	ND	ug/l	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	*76.0-114*		*105*	%	

Sequoia Analytical

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Blaine Tech Services	Project:	Chevron(8)	Sampled: 5/13/99
1680 Rogers Avenue	Project Number:	Chevron/9-4612/990513-J3	Received: 5/14/99
San Jose, CA 95112	Project Manager:	Christine Lillie	Reported: 5/28/99

Sample Description: **TB**
Laboratory Sample Number: **L905229-05**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9050113	5/25/99	5/25/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*88.5*	*%*	
MTBE by EPA Method 8260A								
Methyl tert-butyl ether	9050090	5/19/99	5/20/99		2.00	ND	ug/l	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	*76.0-114*		*105*	*%*	

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Blaine Tech Services	Project:	Chevron(8)	Sampled: 5/13/99
1680 Rogers Avenue	Project Number:	Chevron/9-4612/990513-J3	Received: 5/14/99
San Jose, CA 95112	Project Manager:	Christine Lillie	Reported: 5/28/99

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

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9050113	**Date Prepared: 5/25/99**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**9050113-BLK1**									
Purgeable Hydrocarbons as Gasoline	5/25/99			**ND**	ug/l	**50.0**				
Benzene	"			**ND**	"	**0.500**				
Toluene	"			**ND**	"	**0.500**				
Ethylbenzene	"			**ND**	"	**0.500**				
Xylenes (total)	"			**ND**	"	**0.500**				
Methyl tert-butyl ether	"			**ND**	"	**5.00**				
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*8.51*	"	*70.0-130*	*85.1*			
LCS	**9050113-BS1**									
Benzene	5/25/99	10.0		10.3	ug/l	70.0-130	103			
Toluene	"	10.0		10.6	"	70.0-130	106			
Ethylbenzene	"	10.0		11.0	"	70.0-130	110			
Xylenes (total)	"	30.0		31.4	"	70.0-130	105			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*8.06*	"	*70.0-130*	*80.6*			
Matrix Spike	**9050113-MS1**		**L905245-07**							
Benzene	5/25/99	10.0	ND	10.6	ug/l	60.0-140	**106**			
Toluene	"	10.0	ND	10.3	"	60.0-140	**103**			
Ethylbenzene	"	10.0	ND	10.8	"	60.0-140	**108**			
Xylenes (total)	"	30.0	ND	30.8	"	60.0-140	**103**			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.52*	"	*70.0-130*	*95.2*			
Matrix Spike Dup	**9050113-MSD1**		**L905245-07**							
Benzene	5/25/99	10.0	ND	11.2	ug/l	60.0-140	**112**	25.0	**5.50**	
Toluene	"	10.0	ND	11.0	"	60.0-140	**110**	25.0	**6.57**	
Ethylbenzene	"	10.0	ND	11.4	"	60.0-140	**114**	25.0	**5.41**	
Xylenes (total)	"	30.0	ND	32.5	"	60.0-140	**108**	25.0	**4.74**	
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*8.96*	"	*70.0-130*	*89.6*			

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Blaine Tech Services	Project:	Chevron(8)	Sampled: 5/13/99
1680 Rogers Avenue	Project Number:	Chevron/9-4612/990513-J3	Received: 5/14/99
San Jose, CA 95112	Project Manager:	Christine Lillie	Reported: 5/28/99

MTBE by EPA Method 8260A/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9050090	**Date Prepared: 5/19/99**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**9050090-BLK1**									
Methyl tert-butyl ether	5/19/99			**ND**	ug/l	**2.00**				
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*51.2*	"	*76.0-114*	*102*			
Blank	**9050090-BLK2**									
Methyl tert-butyl ether	5/20/99			**ND**	ug/l	**2.00**				
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*54.5*	"	*76.0-114*	*109*			
Blank	**9050090-BLK3**									
Methyl tert-butyl ether	5/21/99			**ND**	ug/l	**2.00**				
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*49.8*	"	*76.0-114*	*99.6*			
LCS	**9050090-BS1**									
Methyl tert-butyl ether	5/19/99	50.0		49.8	ug/l	70.0-130	99.6			
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*51.9*	"	*76.0-114*	*104*			
LCS	**9050090-BS2**									
Methyl tert-butyl ether	5/20/99	50.0		45.8	ug/l	70.0-130	91.6			
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*50.6*	"	*76.0-114*	*101*			
LCS	**9050090-BS3**									
Methyl tert-butyl ether	5/21/99	50.0		45.9	ug/l	70.0-130	91.8			
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*52.1*	"	*76.0-114*	*104*			
Matrix Spike	**9050090-MS1**		**L905289-01**							
Methyl tert-butyl ether	5/19/99	50.0	5.18	53.7	ug/l	60.0-140	**97.0**			
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*51.2*	"	*76.0-114*	*102*			
Matrix Spike Dup	**9050090-MSD1**		**L905289-01**							
Methyl tert-butyl ether	5/19/99	50.0	5.18	56.6	ug/l	60.0-140	**103**	25.0	**6.00**	
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*52.0*	"	*76.0-114*	*104*			

Sequoia Analytical

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Blaine Tech Services	Project:	Chevron(8)	Sampled:	5/13/99
1680 Rogers Avenue	Project Number:	Chevron/9-4612/990513-J3	Received:	5/14/99
San Jose, CA 95112	Project Manager:	Christine Lillie	Reported:	5/28/99

Notes and Definitions

#	Note
1	Chromatogram Pattern: Gasoline C6-C12
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference
NOTE:	Diesel was subcontracted to Sequoia Walnut Creek. Hard copy attached.

Sequoia Analytical

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May 28, 1999

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

RE: Chevron(8)/L905229

Dear Christine Lillie:

Enclosed are the results of analyses for sample(s) received by the laboratory on May 14, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mike Gregory
Project Manager D.M.

CA ELAP Certificate Number I-2360

Sequoia Analytical

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Blaine Tech Services	Project:	Chevron(8)	Sampled:	5/13/99
1680 Rogers Avenue	Project Number:	Chevron/9-4612/990513-J3	Received:	5/14/99
San Jose, CA 95112	Project Manager:	Christine Lillie	Reported:	5/28/99

ANALYTICAL REPORT FOR L905229

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
VH1	L905229-01	Water	5/13/99
MW2	L905229-02	Water	5/13/99
MW3	L905229-03	Water	5/13/99
MW4	L905229-04	Water	5/13/99
TB	L905229-05	Water	5/13/99

Sequoia Analytical

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Blaine Tech Services	Project:	Chevron(8)	Sampled: 5/13/99
1680 Rogers Avenue	Project Number:	Chevron/9-4612/990513-J3	Received: 5/14/99
San Jose, CA 95112	Project Manager:	Christine Lillie	Reported: 5/28/99

Sample Description: **VH1**
Laboratory Sample Number: **L905229-01**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9050113	5/25/99	5/25/99		500	**4180**	ug/l	1
Benzene	"	"	"		5.00	**147**	"	
Toluene	"	"	"		5.00	**12.8**	"	
Ethylbenzene	"	"	"		5.00	**16.5**	"	
Xylenes (total)	"	"	"		5.00	**20.3**	"	
Methyl tert-butyl ether	"	"	"		50.0	**433**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*109*	%	
MTBE by EPA Method 8260A								
Methyl tert-butyl ether	9050090	5/19/99	5/20/99		5.00	**245**	ug/l	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	*76.0-114*		*108*	%	

Sequoia Analytical

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Blaine Tech Services	Project:	Chevron(8)	Sampled: 5/13/99
1680 Rogers Avenue	Project Number:	Chevron/9-4612/990513-J3	Received: 5/14/99
San Jose, CA 95112	Project Manager:	Christine Lillie	Reported: 5/28/99

Sample Description: **MW2**
Laboratory Sample Number: **L905229-02**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9050113	5/25/99	5/25/99		500	**5890**	ug/l	1
Benzene	"	"	"		5.00	**120**	"	
Toluene	"	"	"		5.00	ND	"	
Ethylbenzene	"	"	"		5.00	**12.5**	"	
Xylenes (total)	"	"	"		5.00	**26.6**	"	
Methyl tert-butyl ether	"	"	"		50.0	**401**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*93.5*	*%*	
MTBE by EPA Method 8260A								
Methyl tert-butyl ether	9050090	5/19/99	5/20/99		2.00	**69.4**	ug/l	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	*76.0-114*		*98.4*	*%*	