Chevron

Chevron U.S.A. Products Company
6001 Bollinger Canyon Rd. Bldg. L
P. O. Box 6004
San Ramon, CA 94583-0804

Site Assessment and
Remediation Group
Phone (510) 842-9500
Fax (510) 842-8370

Date: September 1, 1999

To: Distribution

Re: Groundwater Monitoring Report

The enclosed groundwater monitoring report has been properly reviewed by a Chevron authorized representative. Agency guidelines have been followed. Blaine Tech Services is authorized to distribute the report directly to interested parties.

If you have any questions, please call me at (510) 842-8695

Sincerely,

Brett L. Hunter

Brett Hunter
Site Assessment and Remediation
Project Manager

- Do utility / subsurface conduit study
- Need MW downgradient of MW-4 to delineate MtBE plume.
- Continue QMR at MW-2 and MW-4 semi ann for remaining wells.

BLAINE
TECH SERVICES INC.

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

August 31, 1999

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

2nd Quarter 1999 Monitoring at 9-4800

Second Quarter 1999 Groundwater Monitoring at
Chevron Service Station Number 9-4800
1700 Castro St.
Oakland, CA

Monitoring Performed on June 17, 1999

Groundwater Sampling Report **990617-S-1**

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

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

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

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

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

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

Please call if you have any questions.

Yours truly,

Christine Lillie

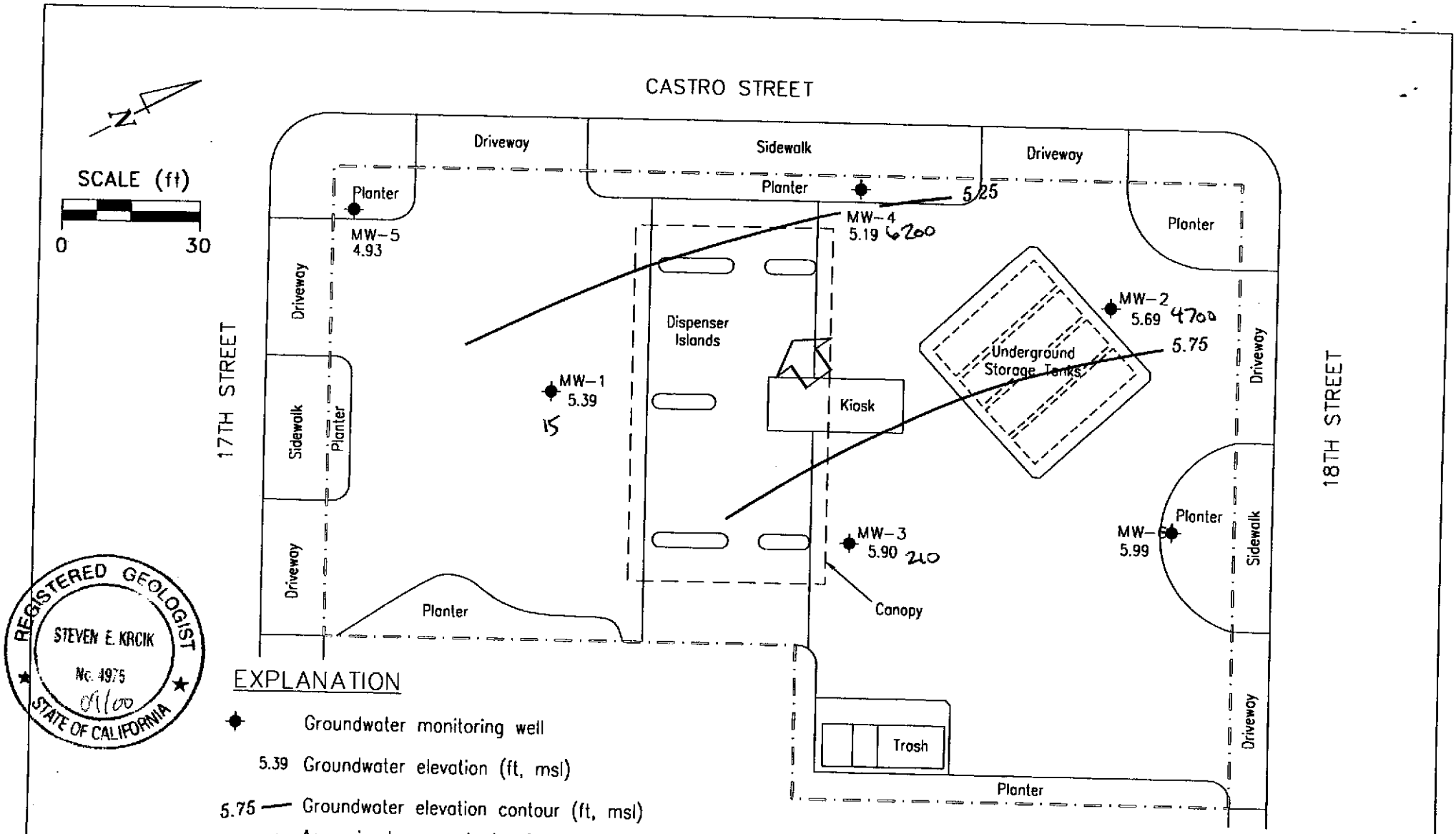
Christine Lillie
Project Coordinator

CAL/sb

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

cc: Eva Chu, Alameda County Health Care Services
Greg Gurss, Gettler-Ryan, Inc.

Professional Engineering Appendix



REGISTERED GEOLOGIST
STEVEN E. KRCIK
No. 4975
6/1/00
STATE OF CALIFORNIA

Ref. 4800-gm.dwg
Basemap from Gettler-Ryan, Inc.

PREPARED BY

RRM
engineering contracting firm

Chevron Station 9-4800
1700 Castro Street
Oakland, California

GROUNDWATER ELEVATION CONTOUR MAP, JUNE 17, 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	MTBE	TPH-Diesel
MW-1											
06/04/97	30.75	4.39	25.82	--	890	100	110	29	150	<10	71*
09/16/97	30.75	4.85	25.90	--	1600	210	210	60	250	<10	75*
12/17/97	30.75	4.88	25.87	--	940	120	100	41	160	<25	65*
03/18/98	30.75	5.90	24.85	--	530	91	39	22	65	6.8	77*
06/28/98	30.75	5.92	24.83	--	1100	220	140	37	120	14	140*
09/07/98	30.75	5.56	25.19	--	1700	530	86	84	240	49	280*
12/09/98	30.75	5.10	25.65	--	1700	240	130	100	270	32	240*
03/11/99	30.75	5.30	25.45	--	353	53.9	28.6	20.5	56.1	14.1	98*
06/17/99	30.75	5.39	25.36	--	810	270	150	95	340	15	217*
MW-2											
06/04/97	30.00	5.13	24.87	--	13,000	790	30	420	1700	4000	4000*
09/16/97	30.00	5.06	24.94	--	4000	360	9.7	210	460	1500	2200*
12/17/97	30.00	5.18	24.82	--	4100	380	<10	200	460	2100	2100*
03/18/98	30.00	6.43	23.57	--	8400	1800	<50	350	630	13,000	3700*
06/28/98	30.00	6.21	23.79	EPA 8260	9300	740	340	710	2300	3800	4400*
09/07/98	30.00	5.78	24.22	--	9900	1000	150	640	1800	4500	3100*
09/07/98	30.00	5.78	24.22	Confirmation run	--	--	--	--	--	4100	--
12/09/98	30.00	5.31	24.69	--	8500	860	74	610	960	2600	1900*
12/09/98	30.00	5.31	24.69	Confirmation run	--	--	--	--	--	2600	--
03/11/99	30.00	5.79	24.21	--	12,500	1520	42.2	645	2250	3400	2700*
03/11/99	30.00	5.79	24.21	Confirmation run	--	--	--	--	--	5050	--
06/17/99	30.00	5.69	24.31	--	27,000	2200	260	1500	5900	4700	7150*

* Chromatogram pattern indicates an unidentified hydrocarbon.

Cumulative Table of Well Data and Analytical Results

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

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	TPH-Diesel
MW-3											
06/04/97	31.32	5.27	26.05	--	190	26	20	1.5	16	8.2	<50
09/16/97	31.32	5.17	26.15	--	270	58	53	6.1	30	21	<50
12/17/97	31.32	5.22	26.10	--	290	50	54	8.1	37	21	<50
03/18/98	31.32	6.42	24.90	--	390	140	33	4.6	30	94	<50
06/28/98	31.32	6.39	24.93	--	290	90	11	1.6	13	150	<50
09/07/98	31.32	5.97	25.35	--	170	46	20	4.3	19	120	<50
12/09/98	31.32	5.41	25.91	--	660	120	93	22	72	150	55*
03/11/99	31.32	5.85	25.47	--	653	136	69.5	13.7	63.8	144	<50
06/17/99	31.32	5.90	25.42	--	530	190	110	24	88	210	103*
MW-4											
04/08/99	30.13	--	--	**	130	3.1	<0.5	<0.5	7.7	4700	--
06/17/99	30.13	5.19	24.94	--	590	58	<5.0	<5.0	160	6200	3780*
MW-5											
04/08/99	30.93	--	--	**	<50	<0.5	<0.5	<0.5	<0.5	<2.5	<50
06/17/99	30.93	4.93	26.00	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	53.8*
MW-6											
04/08/99	30.58	--	--	**	<50	<0.5	<0.5	<0.5	<0.5	4.5	--
06/17/99	30.58	5.99	24.59	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	<50

* Chromatogram pattern indicates an unidentified hydrocarbon.
** See Table of Additional Analyses.

Cumulative Table of Well Data and Analytical Results

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

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	TPH-Diesel
TRIP BLANK											
06/04/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
09/16/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
12/17/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
03/18/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
06/28/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
09/07/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
12/09/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
03/11/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
06/17/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--

ADDITIONAL ANALYSES

Analytical values are in parts per billion (ppb)

DATE	Notes	Ethanol	t-Butanol	MTBE	DIPE	ETBE	TAME
MW-4							
04/08/99	--	<25,000	<5000	5400	<100	<100	<100
MW-5							
04/08/99	--	<500	<100	<2.0	<2.0	<2.0	<2.0
MW-6							
04/08/99	--	<500	<100	5.6	<2.0	<2.0	<2.0

Note: Blaine Tech Services, Inc. began routine monitoring of the groundwater wells at this site on December 9, 1998.
Earlier field data and analytical results are drawn from the September 7, 1998, Gettler-Ryan, Inc. report.
Earlier analytical results for MW-4, MW-5, MW-6 are drawn from the Gettler-Ryan sampling on April 8, 1999.
Site resurveyed by Virgil Chavez Land Surveying on June 18, 1999.

ABBREVIATIONS:
DIPE = Di-Isopropyl Ether
ETBE = Ethyl t-Butyl Ether
TAME = t-Amyl Methyl Ether
TPH = Total Petroleum Hydrocarbons
ND = Not detected at or above the minimum quantitation limit. See laboratory reports for minimum quantitation limits.
MTBE = Methyl-tert-butyl ether

Analytical Appendix

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308

July 13, 1999

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

RE: Chevron 9-4800 990617-S1 1700 Castro St. Oakland/M906497

Dear Christine Lillie

Enclosed are the results of analyses for sample(s) received by the laboratory on June 18, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kayvan Kimyai
Project Manager

CA ELAP Certificate Number 1210

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308

Blaine Tech Services (Chev)	Project:	Chevron 9-4800	Sampled: 6/17/99
1680 Rogers Avenue	Project Number:	990617-S1 1700 Castro St. Oakland	Received: 6/18/99
San Jose, CA 95112	Project Manager:	Christine Lillie	Reported: 7/13/99

ANALYTICAL REPORT FOR M906497

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-1	M906497-01	Water	6/17/99
MW-2	M906497-02	Water	6/17/99
MW-3	M906497-03	Water	6/17/99
MW-4	M906497-04	Water	6/17/99
MW-5	M906497-05	Water	6/17/99
MW-6	M906497-06	Water	6/17/99
TB	M906497-07	Water	6/17/99

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308

Blaine Tech Services (Chev)	Project:	Chevron 9-4800	Sampled: 6/17/99
1680 Rogers Avenue	Project Number:	990617-S1 1700 Castro St. Oakland	Received: 6/18/99
San Jose, CA 95112	Project Manager:	Christine Lillie	Reported: 7/13/99

Diesel Hydrocarbons (C9-C24) by DHS LUFT
Sequoia Analytical - Morgan Hill

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-1			**M906497-01**				**Water**	
Diesel Range Hydrocarbons	9060430	6/28/99	7/6/99		0.0500	**0.217**	mg/l	1
Surrogate: n-Pentacosane	"	"	"	*50.0-150*		*80.5*	%	
MW-2			**M906497-02**				**Water**	
Diesel Range Hydrocarbons	9060430	6/28/99	7/8/99		0.200	**7.15**	mg/l	1,D
Surrogate: n-Pentacosane	"	"	"	*50.0-150*		*105*	%	*D*
MW-3			**M906497-03**				**Water**	
Diesel Range Hydrocarbons	9060430	6/28/99	7/6/99		0.0500	**0.103**	mg/l	1
Surrogate: n-Pentacosane	"	"	"	*50.0-150*		*85.1*	%	
MW-4			**M906497-04**				**Water**	
Diesel Range Hydrocarbons	9060430	6/28/99	7/8/99		0.100	**3.78**	mg/l	1,D
Surrogate: n-Pentacosane	"	"	"	*50.0-150*		*134*	%	*D*
MW-5			**M906497-05**				**Water**	
Diesel Range Hydrocarbons	9060430	6/28/99	7/6/99		0.0500	**0.0538**	mg/l	1
Surrogate: n-Pentacosane	"	"	"	*50.0-150*		*82.7*	%	
MW-6			**M906497-06**				**Water**	
Diesel Range Hydrocarbons	9060430	6/28/99	7/6/99		0.0500	ND	mg/l	
Surrogate: n-Pentacosane	"	"	"	*50.0-150*		*89.6*	%	

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308

Blaine Tech Services (Chev)	Project:	Chevron 9-4800	Sampled: 6/17/99
1680 Rogers Avenue	Project Number:	990617-S1 1700 Castro St. Oakland	Received: 6/18/99
San Jose, CA 95112	Project Manager:	Christine Lillie	Reported: 7/13/99

Diesel Hydrocarbons (C9-C24) by DHS LUFT/Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9060430	**Date Prepared: 6/28/99**					**Extraction Method: EPA 3520B**				
Blank	**9060430-BLK1**									
Diesel Range Hydrocarbons	7/6/99			**ND**	mg/l	**0.0500**				
Surrogate: n-Pentacosane	"	*0.100*		*0.0891*	"	*50.0-150*	*89.1*			
LCS	**9060430-BS1**									
Diesel Range Hydrocarbons	7/6/99	1.00		0.945	mg/l	60.0-140	94.5			
Surrogate: n-Pentacosane	"	*0.100*		*0.0901*	"	*50.0-150*	*90.1*			
Matrix Spike	**9060430-MS1**		**M906513-01**							
Diesel Range Hydrocarbons	7/6/99	1.00	0.0767	1.05	mg/l	50.0-150	**97.3**			
Surrogate: n-Pentacosane	"	*0.100*		*0.0945*	"	*50.0-150*	*94.5*			
Matrix Spike Dup	**9060430-MSD1**		**M906513-01**							
Diesel Range Hydrocarbons	7/6/99	1.00	0.0767	1.01	mg/l	50.0-150	**93.3**	50.0	**4.20**	
Surrogate: n-Pentacosane	"	*0.100*		*0.102*	"	*50.0-150*	*102*			

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308

Blaine Tech Services (Chev)	Project:	Chevron 9-4800	Sampled:	6/17/99
1680 Rogers Avenue	Project Number:	990617-S1 1700 Castro St. Oakland	Received:	6/18/99
San Jose, CA 95112	Project Manager:	Christine Lillie	Reported:	7/13/99

Notes and Definitions

#	Note
D	Data reported from a dilution.
1	Chromatogram Pattern: Unidentified Hydrocarbons C9-C24
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

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

Sequoia Analytical	Client Project ID:	M906497 - Blaine Tech Services	Sampled: Jun 17, 1999
885 Jarvis Dr.	Sample Matrix:	Water	Received: Jun 18, 1999
Morgan Hill, CA. 95037	Analysis Method:	EPA 5030/8015 Mod./8020	Reported: Jul 6, 1999
Attention: Anne Fowler	First Sample #:	906-2315	

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX / MTBE

Analyte	Reporting Limit µg/L	Sample I.D. 906-2315 MW-1	Sample I.D. 906-2316 MW-2	Sample I.D. 906-2317 MW-3	Sample I.D. 906-2318 MW-4	Sample I.D. 906-2319 MW-5	Sample I.D. 906-2320 MW-6
QC Batch Number:		GC063099 802002A	GC070199 802002A	GC063099 802002A	GC063099 802002A	GC063099 802002A	GC063099 802002A
Purgeable Hydrocarbons	50	810	27,000	530	590	N.D.	N.D.
Benzene	0.50	270	2,200	190	58	N.D.	N.D.
Toluene	0.50	150	260	110	N.D.	N.D.	N.D.
Ethyl Benzene	0.50	95	1,500	24	N.D.	N.D.	N.D.
Total Xylenes	0.50	340	5,900	88	160	N.D.	N.D.
MTBE	2.5	15	4,700	210	6,200	N.D.	N.D.
Chromatogram Pattern:		Gasoline	Gasoline	Gasoline	Gasoline	--	--

Quality Control Data

Report Limit Multiplication Factor:	1.0	200	1.0	10	1.0	1.0
Date Analyzed:	6/30/99	7/1/99	6/30/99	6/30/99	6/30/99	6/30/99
Instrument Identification:	HP-2	HP-2	HP-2	HP-2	HP-2	HP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	119	100	129	98	93	92

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

SEQUOIA ANALYTICAL, #1271

Charlie Westwater
Project Manager

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

Sequoia Analytical	Client Project ID:	M906497 - Blaine Tech Services	Sampled:	Jun 17, 1999
885 Jarvis Dr.	Sample Matrix:	Water	Received:	Jun 18, 1999
Morgan Hill, CA. 95037	Analysis Method:	EPA 5030/8015 Mod./8020	Reported:	Jul 6, 1999
Attention: Anne Fowler	First Sample #:	906-2321		

QC Batch Number: GC063099

802002A

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX / MTBE

Analyte	Reporting Limit µg/L	Sample I.D. 906-2321 TB
Purgeable Hydrocarbons	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Total Xylenes	0.50	N.D.
MTBE	2.5	N.D.
Chromatogram Pattern:		--

Quality Control Data

Report Limit Multiplication Factor:	1.0
Date Analyzed:	6/30/99
Instrument Identification:	HP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	93

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

SEQUOIA ANALYTICAL, #1271

Charlie Westwater
Project Manager

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

Sequoia Analytical
885 Jarvis Dr.
Morgan Hill, CA. 95037
Attention: Anne Fowler

Client Project ID: M906497 - Blaine Tech Services
Matrix: Liquid
QC Sample Group: 9062315-321
Reported: Jul 6, 1999

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC063099	GC063099	GC063099	GC063099
	802002A	802002A	802002A	802002A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb
MS/MSD #:	9062302	9062302	9062302	9062302
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	6/30/99	6/30/99	6/30/99	6/30/99
Analyzed Date:	6/30/99	6/30/99	6/30/99	6/30/99
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Result:	20	18	19	62
MS % Recovery:	100	90	95	103
Dup. Result:	20	18	20	61
MSD % Recov.:	100	90	100	102
RPD:	0.0	0.0	5.1	1.6
RPD Limit:	0-20	0-20	0-20	0-20

LCS #:	2LCS063099	2LCS063099	2LCS063099	2LCS063099
Prepared Date:	6/30/99	6/30/99	6/30/99	6/30/99
Analyzed Date:	6/30/99	6/30/99	6/30/99	6/30/99
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
LCS Result:	20	18	19	62
LCS % Recov.:	100	90	95	103

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

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

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

Sequoia Analytical
885 Jarvis Dr.
Morgan Hill, CA. 95037
Attention: Anne Fowler

Client Project ID: M906497 - Blaine Tech Services
Matrix: Liquid
QC Sample Group: 9062315-321
Reported: Jul 6, 1999

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC070199	GC070199	GC070199	GC070199
	802002A	802002A	802002A	802002A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	C. Westwater	C. Westwater	C. Westwater	C. Westwater
MS/MSD #:	9062355	9062355	9062355	9062355
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	7/1/99	7/1/99	7/1/99	7/1/99
Analyzed Date:	7/1/99	7/1/99	7/1/99	7/1/99
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Result:	20	18	18	61
MS % Recovery:	100	90	90	102
Dup. Result:	19	17	18	58
MSD % Recov.:	95	85	90	97
RPD:	5.1	5.7	0.0	5.0
RPD Limit:	0-20	0-20	0-20	0-20

LCS #:	2LCS070199	2LCS070199	2LCS070199	2LCS070199
Prepared Date:	7/1/99	7/1/99	7/1/99	7/1/99
Analyzed Date:	7/1/99	7/1/99	7/1/99	7/1/99
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
LCS Result:	19	18	19	60
LCS % Recov.:	95	90	95	100

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

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 9-4800
Facility Address 1700 Castro St., Oakland
Consultant Project Number 990617-S1
Consultant Name BLAINE TECH SERVICE, INC.
Address 1680 ROGERS AVE., SAN JOSE
Project Contact (Name) CHRISTINE LILLIE
(Phone) 408-573-0555 (Fax Number) 408-573-7771

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

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

Remarks: L906497

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 Cd,Cr,Pb,Zn,Ni (ICAP or AA)	BTEX (8020)	BTEX/MTBE/Naph. (8020)	TPH - HCID	TPH-D Extended					Lab Sample No.
MW-1	5	W	HCl	6/17/99 12:48	X		X															01
MW-2	|	|	|	13:30	|		|															02
MW-3	|	|	|	12:17	|		|														03
MW-4	|	|	|	10:35	|		|														04
MW-5	|	|	|	11:05	|		|														05
MW-6	|	|	|	11:45	|		|														06
TB	2	|	|	—	|		|														07

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced Y/N
Kevin Sullivan		6/18/99 8:37	[signature]	Sequoia	6/18/99 837	
[signature]		6/18/99 1235				
			Received For Laboratory By (Signature) [signature]		6/18/99 13:[illegible]	Iced (Y)/N

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

Field Data Sheets

WELL GAUGING DATA

Project # 990617-S1 Date 6/17/99 Client Chevron

Site 1700 Castro Street Oakland CA

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	
MW-1	2					25.36	29.95	TOC	5
MW-2	2					24.73	30.30		6
MW-3	2					25.42	29.81		4
MW-4	2					24.94	29.03		1
MW-5	2					26.00	28.36		2
MW-6	2					24.59	28.31		3

CHEVRON WELL MONITORING DATA SHEET

Project #: 990617-S1	Station #: 9-4800
Sampler: KPS	Date: 6/17/99
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 29.95	Depth to Water: 25.36
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

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

Purge Method:
Bailer
(Disposable Bailer)
Middleburg
Electric Submersible
Extraction Pump
Other: ___

Sampling Method:
Bailer
(Disposable Bailer)
Extraction Port
Other: ___

7 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 21 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
12:38	72.2	8.0	1000	1	
12:41	70.4	7.8	1000	2	
12:44	70.0	7.6	1000	3	

Did well dewater? Yes (No) Gallons actually evacuated: 3

Sampling Time: 12:48 Sampling Date: 6/17/99

Sample I.D.: MW-1 Laboratory: (Sequoia) CORE N. Creek Assoc. Labs

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

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

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

CHEVRON WELL MONITORING DATA SHEET

Project #: 990617-S1	Station #: 9-4800
Sampler: CPS	Date: 6/17/99
Well I.D.: MW-2	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 30.30	Depth to Water: 24.31
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

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

Purge Method: Bailer; (Disposable Bailer); Middleburg; Electric Submersible; Extraction Pump; Other: ___

Sampling Method: Bailer; (Disposable Bailer); Extraction Port; Other: ___

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

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
13:07	71.2	7.5	1000	1	Odor
13:11	70.3	8.0	900	2	Odor
13:15	72.1	7.5	1000	3	Odor

Did well dewater? Yes (No) Gallons actually evacuated: 3

Sampling Time: 13:20 Sampling Date: 6/17/99

Sample I.D.: MW-2 Laboratory: (Sequoia) CORE N. Creek Assoc. Labs

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

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

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

CHEVRON WELL MONITORING DATA SHEET

Project #: 990617-51	Station #: 9-4800
Sampler: KPS	Date: 6/17/99
Well I.D.: MW-3	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 29.81	Depth to Water: 25.42
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

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

Purge Method: Bailer; (Disposable Bailer); Middleburg; Electric Submersible; Extraction Pump; Other: _____

Sampling Method: ~~Bailer~~; (Disposable Bailer); Extraction Port; Other: _____

1 Case Volume (Gals.)	x	Specified Volumes	=	Calculated Volume
.7	x	3	=	2.1 Gals.

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
12:04	71.2	7.6	1000	1	
12:08	71.8	7.8	1000	2	
12:11	71.0	7.8	1000	3	

Did well dewater? Yes No Gallons actually evacuated: 3

Sampling Time: 12:17 Sampling Date: 6/17/99

Sample I.D.: MW-3 Laboratory: (Sequoia) CORE N. Creek Assoc. Labs

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

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

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

CHEVRON WELL MONITORING DATA SHEET

Project #: 990617-S1	Station #: 9-4800
Sampler: KPS	Date: 6/17/99
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 29.03	Depth to Water: 24.94
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

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

Purge Method: Bailer (Disposable Bailer) Middleburg Electric Submersible Extraction Pump Other: ___

Sampling Method: Bailer (Disposable Bailer) Extraction Port Other: ___

1 Case Volume (Gals.)	X	Specified Volumes	=	Calculated Volume
.7	X	3	=	2.1 Gals.

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
10:23	71.6	6.9	2000	1	
10:27	72.6	7.2	1000	2	
10:30	70.2	7.4	800	3	

Did well dewater? Yes (No) Gallons actually evacuated: 3

Sampling Time: 10:35 Sampling Date: 6/17/99

Sample I.D.: MW-4 Laboratory: (Sequoia) CORE N. Creek Assoc. Labs

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

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

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

CHEVRON WELL MONITORING DATA SHEET

Project #: 990617-S1	Station #: 9-4800
Sampler: KPS	Date: 6/17/99
Well I.D.: MW-5	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 28.36	Depth to Water: 26.60
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

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

Purge Method:
Bailer
(Disposable Bailer)
Middleburg
Electric Submersible
Extraction Pump
Other: ___

Sampling Method:
Bailer
(Disposable Bailer)
Extraction Port
Other: ___

1 Case Volume (Gals.)	X	Specified Volumes	=	Calculated Volume
.4	X	3	=	1.2 Gals.

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
10:53	70.0	7.4	1000	.5	
10:56	69.6	7.6	1500	1	
11:00	70.6	7.5	1700	2	

Did well dewater? Yes (No) Gallons actually evacuated: 2

Sampling Time: 11:05 Sampling Date: 6/17/99

Sample I.D.: MW-5 Laboratory: (Sequoia) CORE N. Creek Assoc. Labs

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

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

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

CHEVRON WELL MONITORING DATA SHEET

Project #: 990617-S1	Station #: 9-4800
Sampler: KPS	Date: 6/17/99
Well I.D.: MW-6	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 28.31	Depth to Water: 24.59
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

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

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

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

3.7 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 11.1 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
11:29	70.2	7.8	800	4	
11:35	70.4	7.8	900	8	
11:40	71.6	7.8	900	12	

Did well dewater? Yes (No) Gallons actually evacuated: 12

Sampling Time: 11:45 Sampling Date: 6/17/99

Sample I.D.: MW-6 Laboratory: (Sequoia) CORE N. Creek Assoc. Labs

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

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

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