

Response to 6/16/99



Chevron

June 5, 1999

*SPID
776*

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

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

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

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

Dear Mr. Gholami:

Enclosed are the Analytical Results for the First Quarter of 1999 that was submitted by our consultant Blaine Tech Services Inc.(BTSI) for the above noted site. I have not yet received the groundwater monitoring report from BTSI, but I am forwarding the analytical data as requested in your letter of April 27, 1999.

Ground water samples were collected and analyzed for TPH-g, BTEX and MtBE constituents. The groundwater samples in which MtBE was detected by EPA Method 8020, were also analyzed for the presence of other oxygenates and to confirm the presence of MtBE by using EPA Method 8260.

The MtBE constituent was confirmed in five of the eight wells sampled, however no other oxygenates were detected in these five wells. The complete groundwater monitoring report will be forwarded when received from the consultant.

If you have any questions or comments, call me at (925) 842-9136.

Sincerely,
CHEVRON PRODUCTS COMPANY

Philip R. Briggs
Philip R. Briggs
Site Assessment and Remediation Project Manger

Enclosure

Cc. Mr. Bill Scudder, Chevron

99 JUN -8 PM 3:24
ENVIRONMENTAL PROTECTION

BLAINE
TECH SERVICES INC.



1880 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112
(408) 573-7771 FAX
(408) 573-0555 PHONE

DATE 5/3/99

Total pages including cover sheet 9

TO Phil Briggs

OF Chevron

FROM Christine

REMARKS: Here are the results for Chevron
9-0504

Multiple horizontal lines for additional handwritten notes or data.



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiger Lane
819 Striker Avenue, Suite B
1455 McDowell Blvd. North, Ste D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Christine Lillie	Client Project ID: Chevron #9-0504, San Lorenzo Sample Matrix: Water Analysis Method: EPA 5030/8015 Mod./8020 First Sample #: 903-2278	Sampled: Mar 19, 1999 Received: Mar 22, 1999 Reported: Apr 5, 1999
---	---	--

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

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX / MTBE

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

Quality Control Data

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

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

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer

Melissa A. Brewer
Project Manager

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





Sequoia Analytical

680 Chesapeake Drive
404 N. Wiger Lane
819 Striker Avenue, Suite B
1455 McDowell Blvd. North, Ste D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Christine Lillie	Client Project ID: Chevron #9-0504, San Lorenzo Sample Matrix: Water Analysis Method: EPA 5030/8015 Mod./8020 First Sample #: 903-2284	Sampled: Mar 19, 1999 Received: Mar 22, 1999 Reported: Apr 5, 1999
---	---	--

QC Batch Number: GC033099 GC032999 GC033099

802009A 802002A 802002A

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX / MTBE

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

Quality Control Data

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

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

SEQUOIA ANALYTICAL, #1271

Please Note:

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

Melissa A. Brewer

Melissa A. Brewer
Project Manager





Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite B
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Peraluma, CA 94964

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 702-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

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

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

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

QC Batch Number: MS0401998260S2A

Instrument ID: GC/MS-2

OXYGENATED COMPOUNDS (EPA 8260)

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

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

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

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer

Melissa A. Brewer
Project Manager





Sequoia Analytical

680 Chesapeake Drive
404 N. Wiger Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd, North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Peraluma, CA 94954

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

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

QC Batch Number: MS0401998260S2A

Instrument ID: GC/MS-2

OXYGENATED COMPOUNDS (EPA 8260)

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

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

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

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer

Melissa A. Brewer
Project Manager





Sequoia Analytical

680 Chesapeake Drive
404 N. Wiger Lane
819 Striker Avenue, Suite B
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Christine Lillie	Client Project ID: Chevron #9-0504, San Lorenzo Sample Descript: Water, C-3 Analysis Method: EPA 8260 Lab Number: 903-2280	Sampled: Mar 19, 1999 Received: Mar 22, 1999 Analyzed: Apr 2, 1999 Reported: Apr 5, 1999
---	---	---

QC Batch Number: MS0401998260S2A

Instrument ID: GC/MS-2

OXYGENATED COMPOUNDS (EPA 8260)

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

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

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

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer

Melissa A. Brewer
Project Manager





Sequoia Analytical

680 Chesapeake Drive
404 N. Wiger Lane
819 Striker Avenue, Suite B
1455 McDowell Blvd North, Ste D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

Blaine Tech Services	Client Project ID: Chevron #9-0504, San Lorenzo	Sampled: Mar 19, 1999
1680 Rogers Avenue	Sample Descript: Water, C-7	Received: Mar 22, 1999
San Jose, CA 95112	Analysis Method: EPA 8260	Analyzed: Apr 2, 1999
Attention: Christine Lillie	Lab Number: 903-2281	Reported: Apr 5, 1999

QC Batch Number: MS0401998260S2A

Instrument ID: GC/MS-2

OXYGENATED COMPOUNDS (EPA 8260)

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

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

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

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer

Melissa A. Brewer
Project Manager





Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd, North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

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

Client Project ID: Chevron #9-0504, San Lorenzo
Sample Descript: Water, C-8
Analysis Method: EPA 8260
Lab Number: 903-2282

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

QC Batch Number: MS040199826052A

Instrument ID: GC/MS-2

OXYGENATED COMPOUNDS (EPA 8260)

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

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

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

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer

Melissa A. Brewer
Project Manager





Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite B
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

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

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

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

QC Batch Number: MS0401998260S2A

Instrument ID: GC/MS-2

OXYGENATED COMPOUNDS (EPA 8260)

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

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

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

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer

Melissa A. Brewer
Project Manager

