



February 1, 1996

Alameda County Health Care Services Agency (ACHCSA)
1131 Harbor Bay Parkway, Room 250
Alameda, California 94502-6577

Alton Project No: 41-0063-25

ATTN: MR. SCOTT SEERY

SITE: FORMER MOBIL STATION 04-FGN
14994 EAST 14th STREET
SAN LEANDRO, CALIFORNIA

RE: REQUEST TO ELIMINATE ANALYSIS OF GROUNDWATER FOR TPH-D

Dear Mr. Seery:

Alton Geoscience requests ACHCSA approval to discontinue analyzing groundwater samples at this site for total petroleum hydrocarbons as diesel (TPH-D) because the chromatogram pattern for detectible TPH-D concentrations indicates the compounds are composed of "unidentified hydrocarbons less than carbon 15". Based on the laboratory results of TPH-G analyses, the hydrocarbon concentrations reported for TPH-D probably represent the upper end of gasoline range hydrocarbons, a range which overlaps the lower end of diesel range hydrocarbons. A copy of the laboratory report for the analysis of groundwater samples collected during the fourth quarter of 1995 is enclosed for your reference.

Please call if you have any questions.

Sincerely,

ALTON GEOSCIENCE

Deno G. Milano, RG
Senior Geologist

cc: Ms. Cherine Foutch, Mobil Oil Corporation

M:\... \04FGNL2.ACH

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FEB 15 1996
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Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: D. Milano

Client Project ID: Mobil #04-FGN
Sample Matrix: Water
Analysis Method: EPA 5030/8015 Mod./8020
First Sample #: 511-0368

Sampled: Nov 2, 1995
Received: Nov 3, 1995
Reported: Nov 15, 1995

QC Batch Number: GC111395 GC111395 GC111395 GC111395 GC111395 GC111395 GC111395

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 511-0368 MW-6A	Sample I.D. 511-0369 MW-4A	Sample I.D. 511-0370 MW-7A	Sample I.D. 511-0371 MW-5A	Sample I.D. 511-0372 MW-2A	Sample I.D. 511-0373 MW-3A
Purgeable Hydrocarbons	50	N.D.	N.D.	N.D.	180	4,300	9,200
Benzene	0.50	N.D.	N.D.	N.D.	1.9	22	31
Toluene	0.50	N.D.	N.D.	N.D.	1.2	N.D.	N.D.
Ethyl Benzene	0.50	N.D.	N.D.	N.D.	N.D.	10	360
Total Xylenes	0.50	N.D.	N.D.	N.D.	N.D.	11	72
Chromatogram Pattern:		--	--	--	Gasoline	Gasoline & Unidentified Hydrocarbons > C9	Gasoline

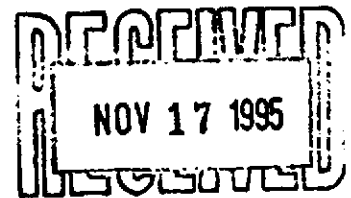
Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	10	50
Date Analyzed:	11/13/95	11/13/95	11/13/95	11/13/95	11/13/95	11/13/95
Instrument Identification:	HP-9	HP-9	HP-9	HP-9	HP-2	HP-9
Surrogate Recovery, %: (QC Limits = 70-130%)	94	96	89	87	132	70

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

Kevin Van Slambrook
Kevin Van Slambrook
Project Manager





Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: D. Milano

Client Project ID: Mobil #04-FGN
Sample Matrix: Water
Analysis Method: EPA 5030/8015 Mod./8020
First Sample #: 511-0374

Sampled: Nov 2, 1995
Received: Nov 3, 1995
Reported: Nov 15, 1995

QC Batch Number: GC111395

802009A

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 511-0374 MW-1A
Purgeable Hydrocarbons	50	12,000
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	190
Total Xylenes	0.50	150

Chromatogram Pattern: Gasoline

Quality Control Data

Report Limit Multiplication Factor:	50
Date Analyzed:	11/13/95
Instrument Identification:	HP-9
Surrogate Recovery, %: (QC Limits = 70-130%)	81

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

Kevin Van Slambrook
Project Manager





Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: D. Milano

Client Project ID: Mobil #04-FGN
Sample Matrix: Water
Analysis Method: EPA 3510/8015 Mod.
First Sample #: 511-0368

Sampled: Nov 2, 1995
Received: Nov 3, 1995
Reported: Nov 15, 1995

QC Batch Number:	SP110895	SP110895	SP110895	SP110895	SP110895	SP110895
	8015EXA	8015EXA	8015EXA	8015EXA	8015EXA	8015EXA

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit µg/L	Sample I.D. 511-0368 MW-6A	Sample I.D. 511-0369 MW-4A	Sample I.D. 511-0370 MW-7A	Sample I.D. 511-0371 MW-5A	Sample I.D. 511-0372 MW-2A	Sample I.D. 511-0373 MW-3A
Extractable Hydrocarbons	50	N.D.	N.D.	N.D.	N.D.	3,000	4,400

Chromatogram Pattern: Unidentified Hydrocarbons <C15 Unidentified Hydrocarbons <C15



Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	1.0	1.0
Date Extracted:	11/8/95	11/8/95	11/8/95	11/8/95	11/8/95	11/8/95
Date Analyzed:	11/8/95	11/8/95	11/8/95	11/8/95	11/8/95	11/8/95
Instrument Identification:	HP-3B	HP-3B	HP-3B	HP-3B	HP-3B	HP-3B

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

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Kevin Van Slambrook
Project Manager





Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: D. Milano

Client Project ID: Mobil #04-FGN
Sample Matrix: Water
Analysis Method: EPA 3510/8015 Mod.
First Sample #: 511-0374

Sampled: Nov 2, 1995
Received: Nov 3, 1995
Reported: Nov 15, 1995

QC Batch Number: SP110895

8015EXA

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit µg/L	Sample I.D. 511-0374 MW-1A
Extractable Hydrocarbons	50	3400

Chromatogram Pattern:

Unidentified Hydrocarbons
<C15



Quality Control Data

Report Limit Multiplication Factor:	1.0
Date Extracted:	11/8/95
Date Analyzed:	11/8/95
Instrument Identification:	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

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Kevin Van Slambrook
Project Manager



Alton Geoscience
30-A Lindbergh Ave
Livermore, CA 94550
Attention: D. Milano

Client Project ID: Mobil #04-FGN
Matrix Descript: Water
Analysis Method: SM 5520 B&F (Gravimetric)
First Sample #: 511-0368

Sampled: Nov 2, 1998
Received: Nov 3, 1998
Extracted: Nov 8, 1998
Analyzed: Nov 9-10, 1998
Reported: Nov 15, 1998

TOTAL RECOVERABLE PETROLEUM OIL

Sample Number	Sample Description	Oil & Grease mg/L (ppm)	Detection Limit Multiplication Factor	Sample Number
511-0368	MW-6A	N.D.	1.0	SP1108955520MDB
511-0369	MW-4A	N.D.	1.0	SP1108955520MDB
511-0370	MW-7A	N.D.	1.0	SP1108955520MDB
511-0371	MW-5A	N.D.	1.0	SP1108955520MDB
511-0372	MW-2A	N.D.	1.0	SP1108955520MDB
511-0373	MW-3A	N.D.	1.0	SP1108955520MDB
511-0374	MW-1A	N.D.	1.0	SP1108955520MDB

Detection Limits: 5.0

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

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Kevin Van Slambrook
Project Manager





Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: D. Milano

Client Project ID: Mobil #04-FGN
Matrix: Liquid

QC Sample Group: 5110368-374

Reported: Nov 15, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel	Oil & Grease
QC Batch#:	GC111395 802009A	GC111395 802009A	GC111395 802009A	GC111395 802009A	SP110895 8015EXA	SP110895 5520MDB
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015	SM 5520
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 3510	SM 5520
Analyst:	M. Creusere	M. Creusere	M. Creusere	M. Creusere	J. Dinsay	D. Newcomb
MS/MSD #:	111395	111395	111395	111395	BLK110895	BLK110895
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	11/13/95	11/13/95	11/13/95	11/13/95	11/8/95	11/8/95
Analyzed Date:	11/13/95	11/13/95	11/13/95	11/13/95	11/8/95	11/9/95
Instrument I.D.#:	HP-9	HP-9	HP-9	HP-9	HP-3B	Manual
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	300 µg/L	100 mg/L
Result:	21	21	21	71	170	93
MS % Recovery:	105	105	105	118	57	93
Dup. Result:	19	19	20	65	190	92
MSD % Recov.:	95	95	100	108	64	92
RPD:	10	10	4.9	8.8	12	1.1
RPD Limit:	0-20	0-20	0-20	0-20	0-20	0-20

LCS #:	4LCS111395	4LCS111395	4LCS111395	4LCS111395	LCS110895	LCS110895
Prepared Date:	11/13/95	11/13/95	11/13/95	11/13/95	11/8/95	11/8/95
Analyzed Date:	11/13/95	11/13/95	11/13/95	11/13/95	11/8/95	11/9/95
Instrument I.D.#:	HP-9	HP-9	HP-9	HP-9	HP-3B	Manual
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	300 µg/L	100 mg/L
LCS Result:	20	20	21	69	230	93
LCS % Recov.:	101	102	103	115	78	93

MS/MSD LCS Control Limits	71-133	72-128	72-130	71-120	38-122	60-140
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SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Kevin Van Slambrook
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



Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: D. Milano

Client Project ID: Mobil #04-FGN
Matrix: Liquid

QC Sample Group: 5110368-374

Reported: Nov 15, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC111395 802002A	GC111395 802002A	GC111395 802002A	GC111395 802002A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	M. Creusere	M. Creusere	M. Creusere	M. Creusere
MS/MSD #:	5110157	5110157	5110157	5110157
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	11/13/95	11/13/95	11/13/95	11/13/95
Analyzed Date:	11/13/95	11/13/95	11/13/95	11/13/95
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:	23	22	23	68
MS % Recovery:	115	110	115	113
Dup. Result:	23	22	23	67
MSD % Recov.:	115	110	115	112
RPD:	0.0	0.0	0.0	1.5
RPD Limit:	0-20	0-20	0-20	0-20

LCS #:	1LCS111395	1LCS111395	1LCS111395	1LCS111395
Prepared Date:	11/13/95	11/13/95	11/13/95	11/13/95
Analyzed Date:	11/13/95	11/13/95	11/13/95	11/13/95
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	20	21	63
LCS % Recov.:	101	100	105	104

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

- 680 Chesapeake Drive • Redwood City, CA 94063 • (415) 364-9600 FAX (415) 364-9233
- 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
- 1900 Bates Ave., Suite LM • Concord, CA 94520 • (510) 686-9600 FAX (510) 686-9689

Mobil Oil Consulting Firm: <u>ALTO Geo Science</u>										Station No./Site Address: <u>04-FGU / 14994 E 14th Street</u>														
Address: <u>30 A Lindbergh Av</u>										Project Contact: <u>Don. Milano</u>														
City: <u>Livermore</u>					State: <u>CA</u>					Zip: <u>94550</u>					Mobil Oil Engineer: <u>Cherie Fotech</u>									
Tel: <u>510-606-9150</u>					Fax: _____					Sampler(s) (signature): <u>Mark Fotech</u>														

Sample I.D.	Matrix	Date Sampled	Time	Preservation	Number of Containers	Type of Containers	BTEX - EPA 602/8020	BTEX - TPH	EPA M602/8015/8020 (GAS)	TPH EPA Modified 8015	Gas <input type="checkbox"/> Diesel <input checked="" type="checkbox"/>	Oil & Grease - EPA 413.2	TPH - EPA 418.1	EPA 601/8010	EPA 824/8240	EPA 825/8270	Title 22 Metals EPA 6010/7000	TTL <input type="checkbox"/> STL <input type="checkbox"/>	Lead Org./DHS <input type="checkbox"/>	Lead Total <input type="checkbox"/>	EDB/DBCD - EPA 504	pH	Bioassay - Title 22 Haz. Waste	Bioassay - Effluent	CODING (check one)		
																									Code	Description	
MW-6A	H ₂ O	11/2	9:55	100%	5	100% 200ml			X	X																Code 1	Emergency Response
MW-4A			10:20						X	X																Code 2	Site Assessment
MW-7A			11:00						X	X																Code 3	Remediation (Plan Devtmt.)
MW-5A			11:35						X	X																Code 4	Active Remed. (Install/Start-up)
MW-2A			12:00						X	X																Code 5	Active Remed. (O & M)
MW-3A			12:35						X	X																Code 6	Passive Remed./Monitoring
MW-1A			1:00						X	X																Code 7	Closure
																										Code 8	Construction
																										Code 9	Litigation/Claims Fines

Relinquished by: <u>Mark Fotech</u>	Date/Time: _____	Relinquished by: <u>Paul Bonelli</u>	Date/Time: <u>11/3/95 9:40</u>
Relinquished by: <u>Paul Bonelli</u>	Date/Time: <u>11/3/95 10:20</u>	Relinquished by: _____	Date/Time: _____
Relinquished by: _____	Date/Time: _____	Relinquished in Lab by: <u>Charles O</u>	Date/Time: <u>11/3/95 10:20</u>

Turnaround Time: (check one):	Normal <input checked="" type="checkbox"/>	Same day _____
	1 day _____	2 day _____
	5 day _____	

Remarks:	Sample Integrity: Intact _____ On Ice <input checked="" type="checkbox"/>
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