



ENVIRONMENTAL
PROTECTION

97 JAN 15 PM 3:47

January 10, 1997

Amy Seeliger
~~Ms. Susan Hugo~~

Alton Project No. 41-0063

Alameda County Health Services
1131 Harbor Bay Parkway
Alameda, California 94502-6700

RE: FORMER MOBIL STATION 99-105
6301 SAN PABLO AVENUE
OAKLAND, CALIFORNIA

Dear Ms. Hugo:

Please find enclosed the Fourth Quarter 1996 Progress Report for the subject location prepared for Mobil Oil Corporation by Alton Geoscience. The contents of this report include:

Quarterly Progress Report Summary Sheet

- Exhibit 1: Sampling Schedule
- Exhibit 2: Groundwater Levels and Chemical Analysis Table
- Exhibit 3: Figures 1 through 3 (Vicinity Map, Groundwater Elevation Contour Map, Dissolved-Phase Benzene Concentrations)
- Exhibit 4: Well Purging and Groundwater Sampling Protocol
- Exhibit 5: Monitoring Well Sampling Forms
- Exhibit 6: Analytical Laboratory Data Sheets
- Exhibit 7: Waste Disposal Manifest

If you have any questions regarding this report, please call Ms. Cherine Foutch, Mobil Engineer, at (510) 625-1173, or Mr. Thomas Seeliger, Alton Geoscience Geologist, at (510) 606-9150.

Sincerely,

ALTON GEOSCIENCE

Tom Seeliger
kg
Thomas E. Seeliger
Geologist

cc: Ms. Cherine Foutch, Mobil Oil Corporation
Mr. Kevin Graves, California Regional Water Quality Control Board, San Francisco Bay Region
Mr. Ken Simas, Alisto Engineering Group

M:\...\99-105.2QMS

ALTON GEOSCIENCE

**Quarterly Progress Report Summary Report
Fourth Quarter 1996**

**Former Mobil Statio 99-105
6301 San Pablo Avenue
Oakland, California**

LOP: Alameda County Health Services

Number of water zones:	1	This Page	1
FIELD ACTIVITY:		Date Sampled:	8-Nov-96
Number of ground water wells on-site:	4	Ground Water Wells monitored:	4
Number of ground water wells off-site:	0	Ground Water Wells sampled:	3
Phase of Investigation: Vadose Zone:	N/A	Ground Water Wells with Free Product:	1
		Ground Water Phase:	Monitor & Sample
SITE HYDROGEOLOGY:			
Approximate depth to ground water below ground surface:			10.8 feet
Approximate elevation of potentiometric surface above Mean Sea Level:			21.8 feet
Average Increase/Decrease in ground water elevations since last sampling episode:			.40 foot decrease
Approximate flow direction and hydraulic gradient:			Southwest at 0.023 ft/ft
GROUND WATER CONTAMINATION (BENZENE MCL=1.0 ppb):			
Wells containing free product:	1	Range in Thickness of Free Product:	0.00-0.15 feet
Number of wells with concentrations below MCL:	1	Volume of Free Product Recovered This Period:	0 feet
Number of wells with concentrations at or above MCL:	3	Volume of Free Product Recovered To Date:	0 feet
Nature of contamination:	Gasoline and diesel	Range in Concentrations:	Benzene: ND to 890 ppb TPH-G: ND to 8,400 ppb TPH-D: ND to 2,900 ppb
ADDITIONAL INFORMATION:			
Monitoring Well MW-4 contained 0.15 feet of free product on November 8, 1996.			

Prepared by: *Jacob Madden*

Jacob Madden
Staff Geologist

Alton Project No: 41-0063

Approved by: *Matthew W. Katen*
California RG# 5167

Matthew W. Katen, RG
Senior Geologist

Submittal date: 1/10/97



EXHIBIT 1
SAMPLING SCHEDULE

MONITORING WELL SAMPLING SCHEDULE 1996
Former Mobil Station 99-105

Well Number	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
MW-1	X	X	X	X
MW-2	X	X	X	X
MW-3	X	X	X	X
MW-4	X	X	X*	X*

NOTES: X = well scheduled for sampling
 * = Free product present; well not sampled.

EXHIBIT 2

GROUNDWATER LEVELS AND CHEMICAL ANALYSIS TABLE

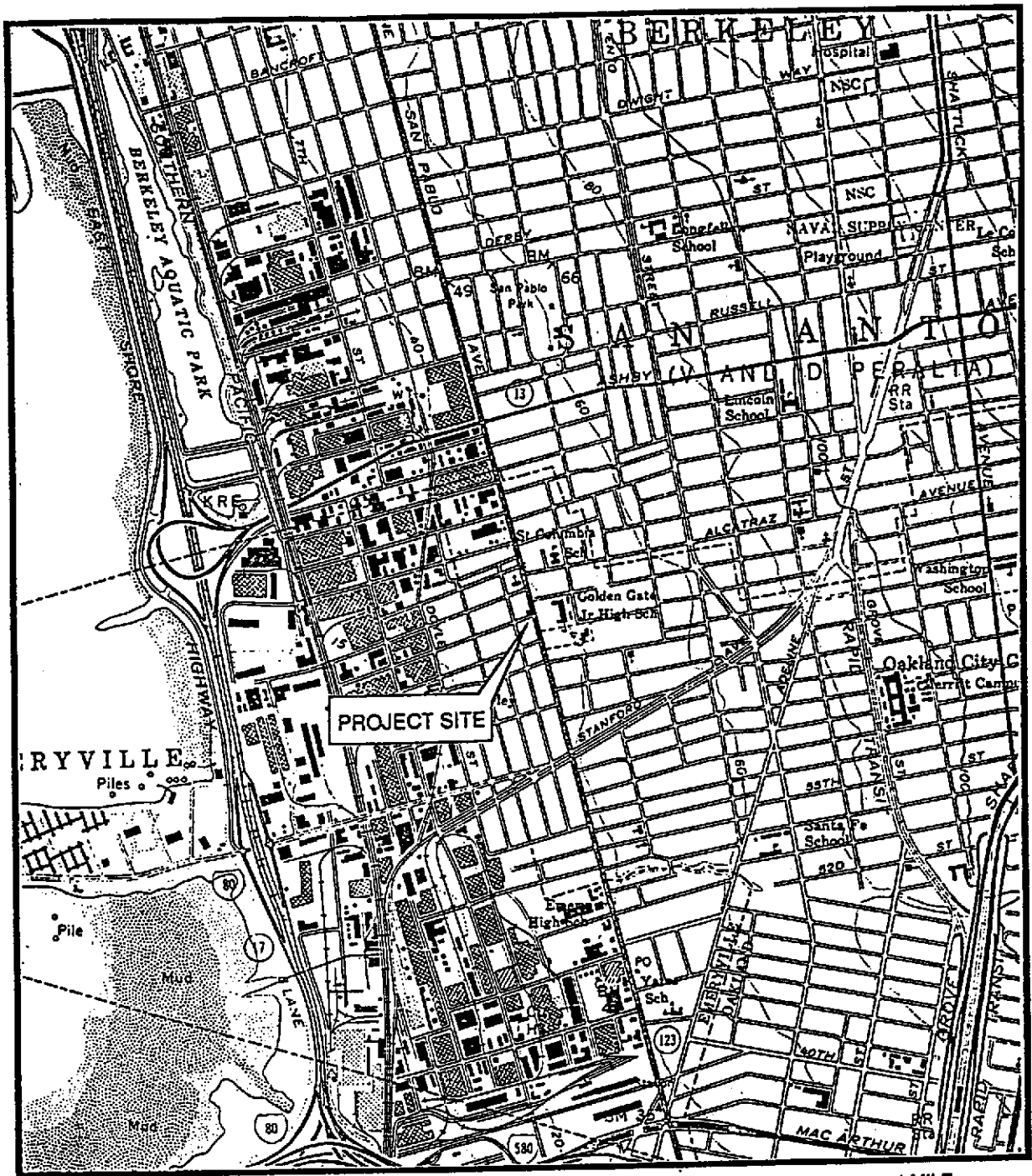
Groundwater Levels and Chemical Analysis

Former Mobil Station 99-105

Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Product Thickness (feet)	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl- benzene (ppb)	Total Xylenes (ppb)	MTBE 8020 (ppb)	MTBE 8240 or 8260 (ppb)	TOG (ppb)	Lead (ppb)
TW-1	1/4/96	—	6.00	—	0.00	ND	700	ND	ND	ND	ND	—	—	—	—
WW-1	1/4/96	—	3.00	—	0.00	ND	—	ND	ND	ND	ND	—	—	ND	—
MW-1	3/14/96	32.79	4.50	28.29	0.00	610	450	0.75	0.54	1.5	59	—	—	—	ND
	5/21/96		5.64	27.15	0.00	ND	ND	ND	ND	ND	ND	—	—	—	—
	8/13/96		9.76	23.03	0.00	ND	ND	ND	ND	ND	ND	—	—	—	—
	11/8/96		10.24	22.55	0.00	ND	ND	ND	0.92	ND	2.1	ND	—	—	—
MW-2	3/14/96	32.80	4.51	28.29	0.00	560	250	2.0	0.96	4.3	11	—	—	—	ND
	5/21/96		5.65	27.15	0.00	730	560	5.1	1.4	6.7	5.9	—	—	—	—
	8/13/96		10.14	22.66	0.00	490	380*	25	3.5	7.2	13	—	—	—	—
	11/8/96		10.70	22.10	0.00	520	160***	80	2.7	14	66	6.1	—	—	—
MW-3	3/14/96	32.80	9.55	23.25	0.00	4,200	1,200	220	30	140	520	—	—	ND	ND
	5/21/96		10.16	22.64	0.00	8,500	2,800	710	110	440	1,700	—	—	—	—
	8/13/96		11.18	21.62	0.00	5,000	2,300**	430	ND	200	360	—	—	—	—
	11/8/96		11.51	21.29	0.00	8,400	2,900*	890	82	790	1,700	73	ND	—	—
MW-4	3/14/96	31.50	4.92	26.58	0.00	12,000	3,500	2,200	140	880	2,000	—	—	—	ND
	5/21/96		8.60	22.90	0.00	11,000	4,200	1,700	ND	930	470	—	—	—	—
	8/13/96		10.02	21.50	0.02 ✓	—	—	—	—	—	—	—	—	—	—
	11/8/96		10.28	21.33	0.15 ✓	—	—	—	—	—	—	—	—	—	—

NOTES: ppb = parts per billion
 TPH-G = total petroleum hydrocarbons as gasoline
 TPH-D = total petroleum hydrocarbons as diesel
 TOG = total oil and grease
 — = not measured/not analyzed
 ND = not detected at or above method detection limit

* = diesel and unidentified hydrocarbons <C15
 ** = diesel and unidentified hydrocarbons <C15>C25
 *** = diesel and unidentified hydrocarbons <C20
 MTBE = methyl-tert butyl ether



SCALE 1:24,000



Quadrangle location

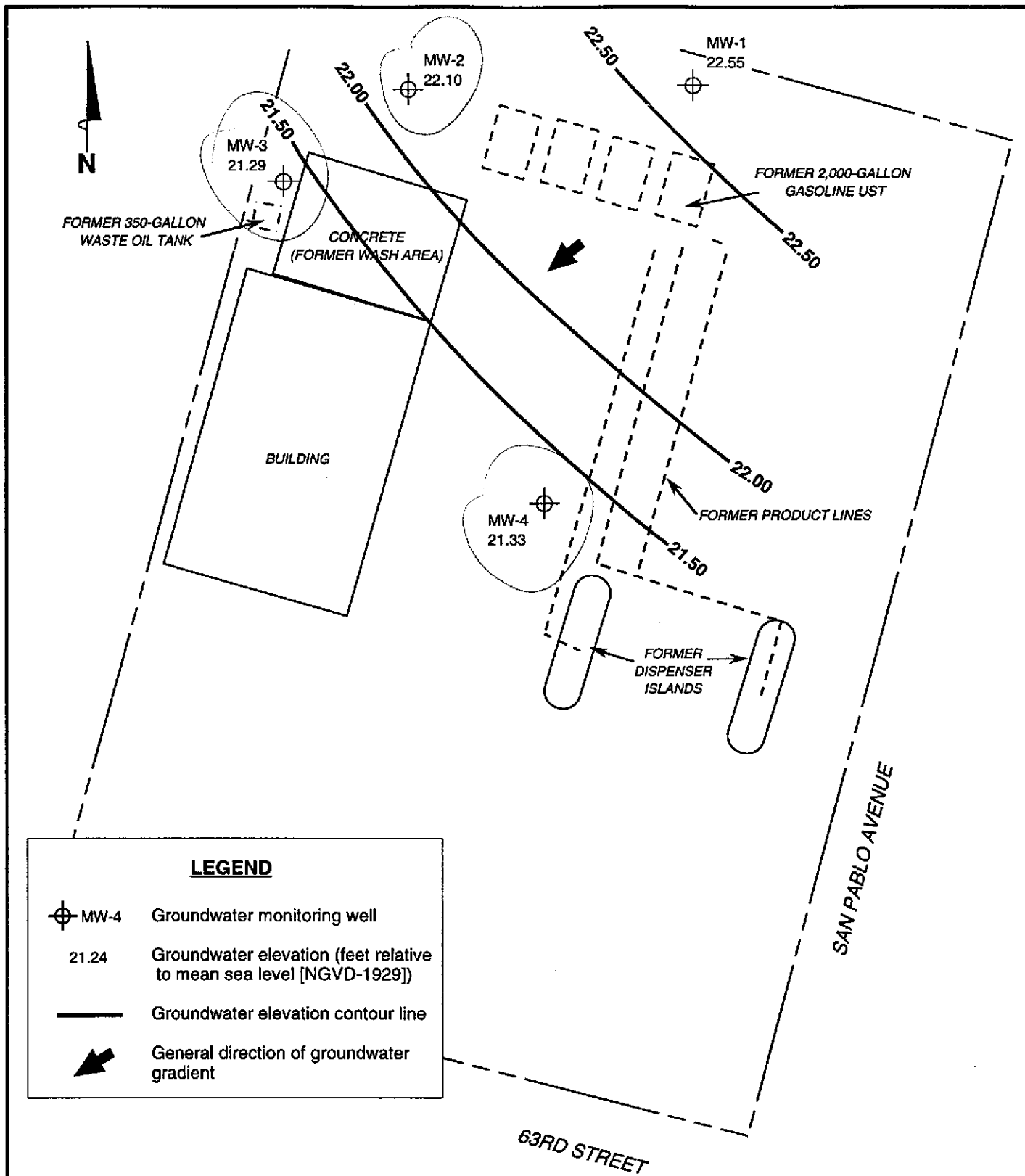
Source: U.S.G.S. Map
Oakland West Quadrangle
California
7.5 Minute Series

VICINITY MAP

Former Mobil Station 99-105
6301 San Pablo Avenue
Oakland, California

FIGURE 1





LEGEND

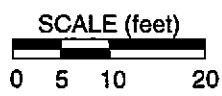
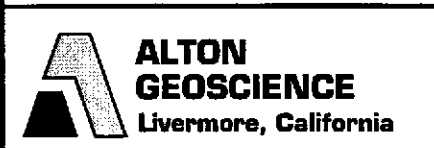
- MW-4 Groundwater monitoring well
- 21.24 Groundwater elevation (feet relative to mean sea level [NGVD-1929])
- Groundwater elevation contour line
- General direction of groundwater gradient

NOTES:
 Contour lines are interpretive based on fluid level measurements collected November 8, 1996.
 Contour interval = 0.5 foot.

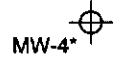
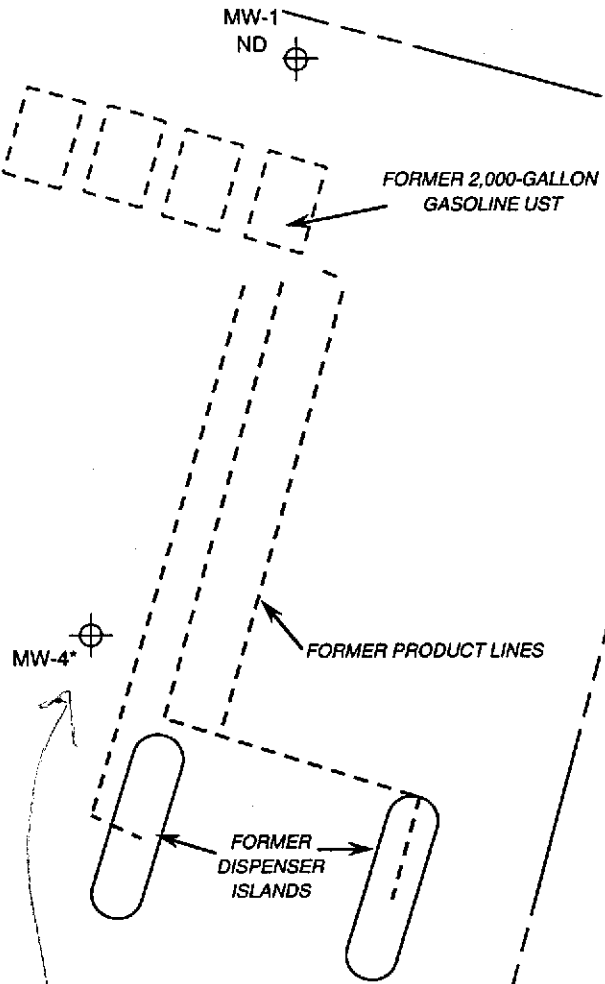
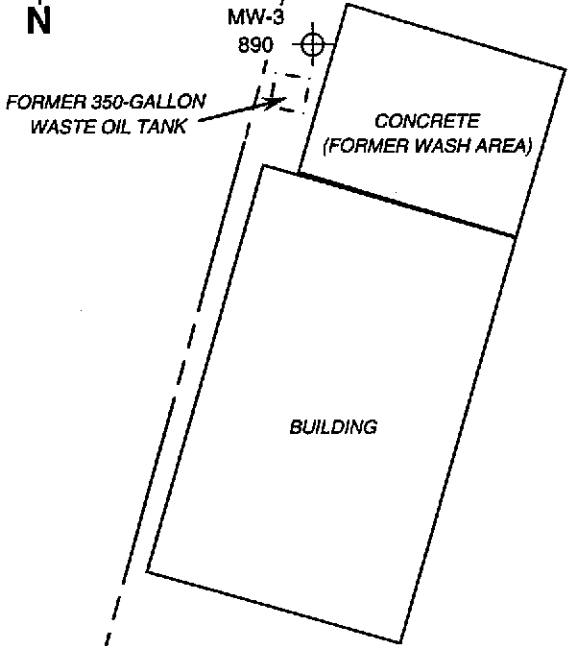
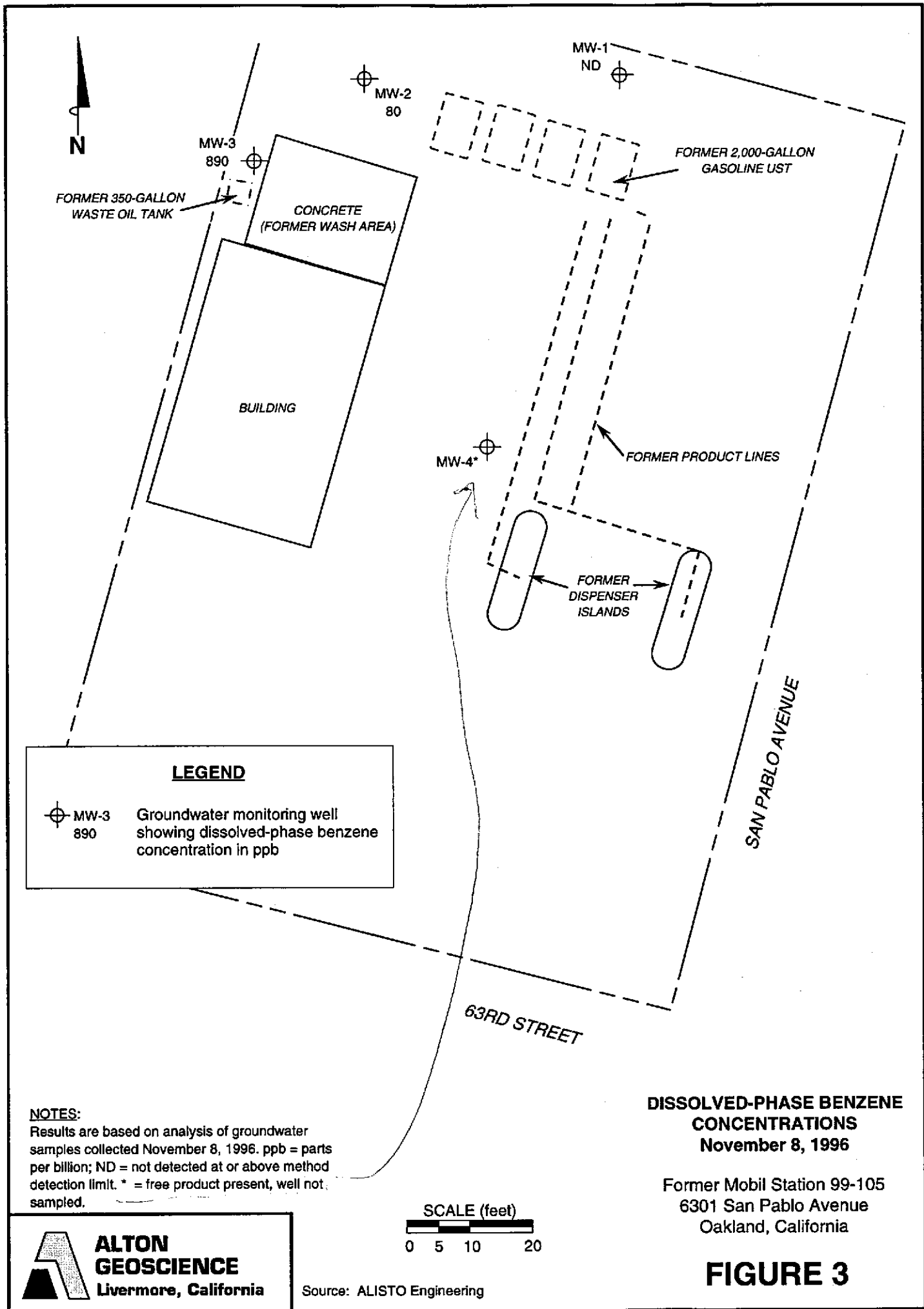
**GROUNDWATER ELEVATION
 CONTOUR MAP
 November 8, 1996**

Former Mobil Station 99-105
 6301 San Pablo Avenue
 Oakland, California

FIGURE 2



Source: ALISTO Engineering



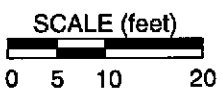
SAN PABLO AVENUE

63RD STREET

LEGEND

MW-3 890 Groundwater monitoring well showing dissolved-phase benzene concentration in ppb

NOTES:
 Results are based on analysis of groundwater samples collected November 8, 1996. ppb = parts per billion; ND = not detected at or above method detection limit. * = free product present, well not sampled.



**DISSOLVED-PHASE BENZENE CONCENTRATIONS
November 8, 1996**

Former Mobil Station 99-105
6301 San Pablo Avenue
Oakland, California

FIGURE 3

**ALTON
GEOSCIENCE**
Livermore, California

Source: ALISTO Engineering

EXHIBIT 4

WELL PURGING AND GROUNDWATER SAMPLING PROTOCOL

WELL PURGING AND GROUNDWATER SAMPLING PROTOCOL

FLUID-LEVEL MONITORING

Fluid-levels are monitored in the wells using an electronic interface probe with conductance sensors. The presence of liquid-phase hydrocarbons is verified using a hydrocarbon-reactive paste. The depth to liquid-phase hydrocarbons and water is measured relative to the well box top or top of casing. Well box or casing elevations are surveyed to within 0.02 foot relative to a county or city bench mark.

GROUNDWATER SAMPLING

Groundwater monitoring wells are purged and sampled in accordance with standard regulatory protocol. Typically, monitoring wells that contain no liquid-phase hydrocarbons are purged of groundwater prior to sampling so that fluids sampled are representative of fluids within the formation. Temperature, pH, and specific conductance are typically measured after each well casing volume has been removed. Purging is considered complete when these parameters vary less than 10% from the previous readings, or when four casing volumes of fluid have been removed. Samples are collected without further purging if the well does not recharge within 2 hours to 80% of its volume before purging.

The purged water is either pumped directly into a licensed vacuum truck or temporarily stored in labeled drums prior to transport to an appropriate treatment or recycling facility. If an automatic recovery system (ARS) is operating at the site, purged water may be pumped into the ARS for treatment.

Groundwater samples are collected by lowering a 1.5-inch-diameter, bottom-fill, disposable polyethylene bailer just below the static water level in the well. The samples are carefully transferred from the check-valve-equipped bailer to 1-liter and 40-milliliter glass containers. The sample containers are filled to zero headspace and fitted with Teflon-sealed caps. Each sample is labeled with the project number, well number, sample date, and sampler's initials. Samples remain chilled at approximately 4°C prior to analysis by a state-certified laboratory.

EXHIBIT 5

MONITORING WELL SAMPLING FORMS

Alton Geoscience, Northern California Operations
GROUND WATER SAMPLING FIELD NOTES

Site: 99-105 Project No.: 41-0063 Sampled By: JM Date: 11-8-96
 Well No. MW-1 Purge Method: Sub Well No. MW-2 Purge Method: Sub
 Total Depth (feet): 19.85 Depth to Product (feet): 0 Total Depth (feet): 19.73 Depth to Product (feet): 0
 Depth to Water (feet): 10.24 Product Recovered (gallons): 0 Depth to Water (feet): 10.70 Product Recovered (gallons): 0
 Water Column (feet): 9.61 Casing Diameter (Inches): 4 Water Column (feet): 9.03 Casing Diameter (Inches): 4
 80% Recharge Depth (feet): 12.16 1 Well Volume (gallons): 634 80% Recharge Depth (feet): 12.5 1 Well Volume (gallons): 529

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
1400			7	1.63	71.4	6.98
			14	1.62	71.8	6.90
	1400	12.16	20	1.71	72.3	6.82
Total Purged			20	Time Sampled		1420

Comments:
Turbidity =

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
1425			3	1.23	69.4	7.11
			6	1.21	70.2	7.02
	1435	12.5	11	1.21	70.9	6.88
Total Purged			11	Time Sampled		1435

Comments:
Turbidity =

Pumped dry @ 11 gall

Well No. MW-3 Purge Method: Sub
 Total Depth (feet): 19.91 Depth to Product (feet): 0
 Depth to Water (feet): 11.51 Product Recovered (gallons): 0
 Water Column (feet): 8.4 Casing Diameter (Inches): 4
 80% Recharge Depth (feet): 13.19 1 Well Volume (gallons): 574

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
1440			5	1.57	70.1	7.03
			10	1.42	71.3	7.01
	1500	13.15	15	1.07	72.4	6.96
Total Purged			15	Time Sampled		1500

Comments:
Turbidity =

Well No. MW-4 Purge Method: _____
 Total Depth (feet): _____ Depth to Product (feet): _____
 Depth to Water (feet): _____ Product Recovered (gallons): _____
 Water Column (feet): _____ Casing Diameter (Inches): _____
 80% Recharge Depth (feet): _____ 1 Well Volume (gallons): _____

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
Free Product 0.15 Feet						
Total Purged				Time Sampled		

Comments:
Turbidity =

Well No. _____ Purge Method: _____
 Total Depth (feet): _____ Depth to Product (feet): _____
 Depth to Water (feet): _____ Product Recovered (gallons): _____
 Water Column (feet): _____ Casing Diameter (Inches): _____
 80% Recharge Depth (feet): _____ 1 Well Volume (gallons): _____

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
Total Purged				Time Sampled		

Comments:

Well No. _____ Purge Method: _____
 Total Depth (feet): _____ Depth to Product (feet): _____
 Depth to Water (feet): _____ Product Recovered (gallons): _____
 Water Column (feet): _____ Casing Diameter (Inches): _____
 80% Recharge Depth (feet): _____ 1 Well Volume (gallons): _____

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
Total Purged				Time Sampled		

Comments:

EXHIBIT 6

ANALYTICAL LABORATORY DATA SHEETS



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

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

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Alton Geoscience 30-A Lindbergh Ave. Livermore, CA 94550 Attention: Tom Seeliger	Client Project ID: Mobil #99-105 Sample Matrix: Water Analysis Method: EPA 5030/8015 Mod./8020 First Sample #: 611-0506	Sampled: Nov 8, 1996 Received: Nov 11, 1996 Reported: Nov 25, 1996
---	--	--

QC Batch Number: GC111596 GC112096 GC111596
802002A 802004A 802002A

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 611-0506 MW-1	Sample I.D. 611-0507 MW-2	Sample I.D. 611-0508 MW-3
Purgeable Hydrocarbons	50	N.D.	520	8,400
Benzene	0.50	N.D.	80	890
Toluene	0.50	0.92	2.7	82
Ethyl Benzene	0.50	N.D.	14	790
Total Xylenes	0.50	2.1	66	1,700
MTBE:	0.60	N.D.	6.1	73
Chromatogram Pattern:	--	Gasoline	Gasoline	

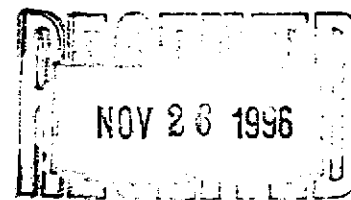
Quality Control Data

Report Limit Multiplication Factor:	1.0	2.0	1.0
Date Analyzed:	11/15/96	11/20/96	11/15/96
Instrument Identification:	HP-2	HP-4	HP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	95	99	144

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


Jim Bava
Project Manager





Sequoia Analytical

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FAX (916) 921-0100

Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Tom Seeliger

Client Project ID: Mobil #99-105
Sample Matrix: Water
Analysis Method: EPA 3510/8015 Mod.
First Sample #: 611-0506

Sampled: Nov 8, 1996
Received: Nov 11, 1996
Reported: Nov 25, 1996

QC Batch Number:

SP111496

SP111496

SP111496

8015EXB

8015EXB

8015EXB

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit µg/L	Sample I.D. 611-0506 MW-1	Sample I.D. 611-0507 MW-2	Sample I.D. 611-0508 MW-3
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Extractable Hydrocarbons	50	N.D.	160	2,900
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Chromatogram Pattern:

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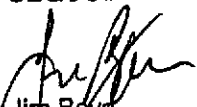
Diesel & Unidentified Hydrocarbons > C20	Diesel & Unidentified Hydrocarbons < C15
--	--

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0
Date Extracted:	11/14/96	11/14/96	11/14/96
Date Analyzed:	11/15/96	11/15/96	11/15/96
Instrument Identification:	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.

SEQUOIA ANALYTICAL, #1271


Jim Baya
Project Manager



Sequoia Analytical

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Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Tom Seeliger

Client Project ID: Mobil #99-105
Sample Descript: Water, MW-3
Analysis Method: EPA 8260
Lab Number: 611-0508

Sampled: Nov 8, 1996
Received: Nov 11, 1996
Analyzed: Nov 20, 1996
Reported: Nov 25, 1996

QC Batch Number: MS112096MTBES2A
Instrument ID: GC/SM-2

VOLATILE ORGANICS by GC/MS

Analyte	Detection Limit $\mu\text{g/L}$	Sample Results $\mu\text{g/L}$
MTBE.....	2.0	N.D.

SEQUOIA ANALYTICAL, #1271


Jim Bava
Project Manager



Sequoia Analytical

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FAX (916) 921-0100

Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Tom Seeliger

Client Project ID: Mobil #99-105
Matrix: Liquid

QC Sample Group: 6110506-508

Reported: Nov 25, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel	MTBE
QC Batch#:	GC112096 802004A	GC112096 802004A	GC112096 802004A	GC112096 802004A	SP111496 8015EXB	MS112096 MTBES2A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015	EPA 8260
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 3510	EPA 5030
Analyst:	K. Nill	K. Nill	K. Nill	K. Nill	D. Shama	M. Williams
MS/MSD #:	6110732	6110732	6110732	6110732	BLK111496	6110360
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.	30 µg/L
Prepared Date:	11/20/96	11/20/96	11/20/96	11/20/96	11/14/96	11/20/96
Analyzed Date:	11/20/96	11/20/96	11/20/96	11/20/96	11/15/96	11/20/96
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	HP-3A	GC/MS-2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	300 µg/L	50 µg/L
Result:	22	17	17	53	220	85
MS % Recovery:	110	85	85	88	73	110
Dup. Result:	21	17	17	51	230	92
MSD % Recov.:	105	85	85	85	77	124
RPD:	4.7	0.0	0.0	3.9	4.4	7.9
RPD Limit:	0-25	0-25	0-25	0-25	0-50	0-25

LCS #:	4LCS112096	4LCS112096	4LCS112096	4LCS112096	LCS111496	LCS112096
Prepared Date:	11/20/96	11/20/96	11/20/96	11/20/96	11/14/96	11/20/96
Analyzed Date:	11/20/96	11/20/96	11/20/96	11/20/96	11/15/96	11/20/96
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	HP-3A	GC/MS-2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	300 µg/L	50 µg/L
LCS Result:	24	18	18	56	240	54
LCS % Recov.:	12	90	90	93	80	108

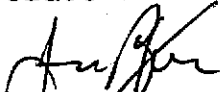
MS/MSD LCS Control Limits	70-130	70-130	70-130	70-130	60-140	70-130
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Please Note:

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, #1271


Jim Bava
Project Manager



Sequoia Analytical

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FAX (510) 988-9673
FAX (916) 921-0100

Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Tom Seeliger

Client Project ID: Mobil #99-105
Matrix: Liquid

QC Sample Group: 6110506-508

Reported: Nov 25, 1996

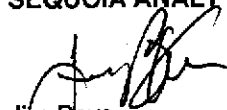
QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC111996	GC111996	GC111996	GC111996
	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 #:	6110674	6110674	6110674	6110674
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	11/19/96	11/19/96	11/19/96	11/19/96
Analyzed Date:	11/19/96	11/19/96	11/19/96	11/19/96
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:	24	24	26	75
MS % Recovery:	120	120	130	125
Dup. Result:	23	23	24	72
MSD % Recov.:	115	115	120	120
RPD:	4.3	4.3	8.0	4.1
RPD Limit:	0-25	0-25	0-25	0-25

LCS #:	2LCS111996	2LCS111996	2LCS111996	2LCS111996
Prepared Date:	11/19/96	11/19/96	11/19/96	11/19/96
Analyzed Date:	11/19/96	11/19/96	11/19/96	11/19/96
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:	23	23	24	73
LCS % Recov.:	115	115	120	122

MS/MSD LCS Control Limits	70-130	70-130	70-130	70-130
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SEQUOIA ANALYTICAL, #1271


Jim Bava
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

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
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(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Tom Seeliger

Client Project ID: Mobil #99-105
Matrix: Liquid

QC Sample Group: 6110506-508

Reported: Nov 25, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC111596	GC111596	GC111596	GC111596
	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 #:	6110372	6110372	6110372	6110372
Sample Conc.:	N.D.	0.65 µg/L	N.D.	1.4 µg/L
Prepared Date:	11/15/96	11/15/96	11/15/96	11/15/96
Analyzed Date:	11/15/96	11/15/96	11/15/96	11/15/96
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:	17	19	22	64
MS % Recovery:	85	92	110	104
Dup. Result:	18	22	24	71
MSD % Recov.:	90	107	120	116
RPD:	5.7	15	8.7	11
RPD Limit:	0-25	0-25	0-25	0-25

LCS #:	2LCS111596	2LCS111596	2LCS111596	2LCS111596
Prepared Date:	11/15/96	11/15/96	11/15/96	11/15/96
Analyzed Date:	11/15/96	11/15/96	11/15/96	11/15/96
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	22	23	72
LCS % Recov.:	100	110	115	120

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

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, #1271


Jim Bava
Project Manager



SEQUOIA ANALYTICAL CHAIN OF CUSTODY

- 680 Chesapeake Drive • Redwood City, CA 94063 • (415) 304-0000 FAX (415) 304-0000
- 819 Striker Ave., Suite B • 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>Alton Geoscience</u>	Station No./Site Address: <u>99-105</u>
Address: <u>30 A Lindbergh Ave</u>	Project Contact: <u>TOM Seeliger</u>
City: <u>Livermore</u> State: <u>CA</u> Zip: <u>94550</u>	Mobil Oil Engineer: <u>Cherise Foutch</u>
Tel: <u>(510) 606-9150</u> Fax: <u>(510) 606-9260</u>	Sampler(s) (signature): <u>[Signature]</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 624/8240	EPA 625/8270	Title 22 Metals EPA 6010/7000 TTLC <input type="checkbox"/> STLC <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	<u>MTBE*</u>	
MW-1	H ₂ O	11-8	1420	HCl	4	3 vials 1 amber	X	X							6110506A-D							X
MW-2	↓	↓	1445	↓	4	↓	X	X							6110507							X
MW-3	↓	↓	1510	↓	4	↓	X	X							6110508							X

CODING
(check one)

Code 1 Emergency Response

Code 2 Site Assessment

Code 3 Remediation (Plan Dev/pmt.)

Code 4 Active Remed. (Install./Start-up)

Code 5 Active Remed. (O & M)

Code 6 Passive Remed./Monitoring

Code 7 Closure

Code 8 Construction

Code 9 Litigation/Claims Fines

Relinquished by: <u>[Signature]</u> Date/Time: _____	Relinquished by: <u>[Signature]</u> Date/Time: <u>11/1/96 1745</u>
Relinquished by: <u>[Signature]</u> Date/Time: <u>11/1/96 1833</u>	Relinquished by: <u>[Signature]</u> Date/Time: _____
Relinquished by: <u>[Signature]</u> Date/Time: _____	Relinquished by: <u>[Signature]</u> Date/Time: <u>11/1/96 1833</u>

Turnaround Time: (check one):

Normal _____ Same day _____

1 day _____ 2 day _____

5 day X

Sample Integrity: Intact _____ On Ice _____

Remarks: * Run highest MTBE for 8260

EXHIBIT 7

WASTE DISPOSAL MANIFEST

Monitoring Well Purge Water Transport Form

Generator Information

Name: Mobil Oil Corporation Attn: Steve Pao
 Address: 3700 West 190th Street, TPT-2
 City, State, Zip: Torrance, CA 90509-2929 Phone: (310) 212-1877
 Description of Water: Monitoring well purge water
 The generator certifies that this water as described is non-hazardous. Kevin Keenan for Mobil: *Kevin Keenan* 11/13/96 (Date)

Site Information

	Date Generated	Mobil Site No.	Amount Generated	Sampler's Initials		Date Generated	Mobil Site No.	Amount Generated	Sampler's Initials
1	11/6/96	04-FVW	200	CC	16				
2	11/5/96	10-L66	300	CC	17				
3	11/7/96	10-G9R	140	CC	18				
4	11/8/96	99-105	75	JM	19				
5	11/6/96	04-343	225	JM	20				
6	11/7/96	04-F6N	85	JM	21				
7	11/11/96	SB05A	55	CC	22				
8	11/13/96	10-HMB	120	JM	23				
9	11/12/96	10-FUR	60	CC	24				
10					25				
11					26				
12					27				
13					28				
14					29				
15					30				
						Total:		<u>1,260</u>	

Transporter Information

Name: Clearwater Environmental Management
 Address: P.O. Box 7420
 City, State, Zip: Fremont, CA 94555 Phone: (800) 499-2676
 Truck ID No.: 116-111
STEVEN R. STONE 11-13-96
 (Typed or printed full name & signature) (Date)

Receiving Facility

Name: McKittrick Waste Treatment Site
 Address: 56533 Highway 58 West
 City, State, Zip: McKittrick, CA 93251 Phone: (805) 762-7607
 Approval No.: 1195-1065-PS
WATHY OILY 11/14/96
 (Typed or printed full name & signature) (Date)

27912

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	2. Page 1 of 1	3. Document Number NH- No 43119
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4. Generator's Name and Mailing Address Mobil Oil 3700 WEST 190th Street TPT-2 Torrance, CA 90509-2929 Generator's Phone 310-212-1877	Profile # 1195-1065 PS
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5. Transporter Company Name Clearwater Env. Mgt. (BARRON) 013	6. US EPA ID Number	7. Transporter Phone 570-797 8511
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8. Designated Facility Name and Site Address McKittrick Waste Treatment Site 56533 Hwy 58, WEST McKittrick, CA 93251	9. US EPA ID Number	10. Facility's Phone 805-762 7366
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11. Waste Shipping Name and Description a. NON HAZARDOUS WASTE LIQUID Monitoring Well Pump Water b.	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
	001	TT	1260	G

15. Special Handling Instructions and Additional Information Wear Protective Gear Emergency contact 570-797 8511 ATTN Kirk Hayward	Handling Codes for Wastes Listed Above	
	11a.	11b.
site Alton Geoscience 30A Lindberg Livermore, CA		

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to state or federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name MARK FEITZ	Signature <i>Mark Feitz</i>	Month Day Year 11 13 96
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17. Transporter Acknowledgment of Receipt of Materials	Signature <i>Steven R. Stone</i>	Month Day Year 11 19 96
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18. Discrepancy Indication Space	Signature <i>Kathy May</i>	Month Day Year 11 14 96
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19. Facility Owner or Operator Certification of Receipt of Waste	Signature <i>Kathy May</i>	Month Day Year 11 14 96
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