

Mobil Oil Corporation

3800 WEST ALAMEDA AVENUE, SUITE 700
BURBANK, CALIFORNIA 91505-4361

October 20, 1994

Mr. Scott Seery
Alameda County Health Care Services
1131 Habor Bay Parkway
2nd Floor
Alameda, CA 94502-6577

**FORMER MOBIL STATION
SS # 04-FGN
14994 E. 14TH STREET
SAN LEANDRO, CALIFORNIA**

Dear Mr. Seery:

Enclosed for your information is the quarterly monitoring and sampling report dated October 7, 1994 for subject location.

If you have any questions, please feel free to contact me at (818) 953-2626.

Sincerely,

S. Pao

Stephen Pao
Field Engineer II

enclosure

cc: Mr. Steven Ritchie (w/ enclosure)
Regional Water Quality Control Board
2101 Webster Street, Suite 500
Oakland, CA 94612

Mr. Bertram Kubo (w/ enclosure)
5772 Sellers Avenue
Oakley, CA 94561

Fuk K. Sit and Ying C. Sit (w/ enclosure)
P. O. Box 160406
Cupertino, California 95016-0406

K. W. Fischer (w/o)

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GROUNDWATER MONITORING AND SAMPLING REPORT

**Former Mobil Oil Corporation Station 04-FGN
14994 East 14th Street
San Leandro, California**

Project No. 10-190-02-001

Prepared for:

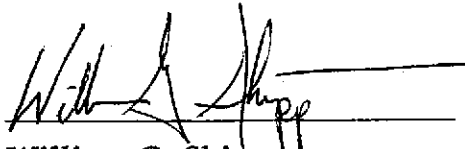
**Mobil Oil Corporation
3800 West Alameda Avenue, Suite 700
Burbank, California**

ALISTO
ENGINEERING
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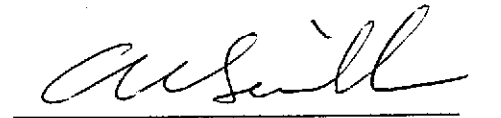
Prepared by:

**Alisto Engineering Group
1777 Oakland Boulevard, Suite 200
Walnut Creek, California**

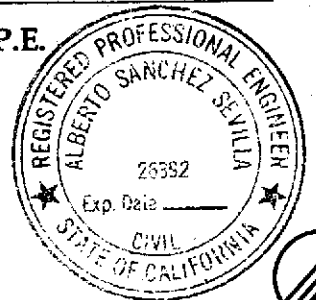
October 7, 1994



**William G. Shipp
Project Geologist**



**Al Sevilla, P.E.
Principal**



GROUNDWATER MONITORING AND SAMPLING REPORT

Former Mobil Oil Corporation Station 04-FGN
14994 East 14th Street
San Leandro, California

Project No. 10-190-02-001

October 7, 1994

INTRODUCTION

This report presents the results and findings of the August 23, 1994 groundwater monitoring and sampling conducted by Alisto Engineering Group at former Mobil Oil Corporation Station 04-FGN, 14994 East 14th Street, San Leandro, California. A site vicinity map is shown in Figure 1.

FIELD PROCEDURES

Field activities were performed in accordance with the procedures and guidelines of the Alameda County Health Care Services Agency and the California Regional Water Quality Control Board, San Francisco Bay Region.

Before purging and sampling, the groundwater level in each well was measured from a permanent mark on top of the casing to the nearest 0.01 foot using an electronic sounder. The depth to groundwater and top of casing elevation data were used to calculate the groundwater elevation in each well in reference to mean sea level. The survey data and groundwater elevation measurements collected to date are presented in Table 1.

Depth to groundwater measurements were performed concurrently with the neighboring Unocal Corporation service station, 15008 East 14th Street, San Leandro, California. The results are presented in Table 2.

Before sample collection, each well was purged of 3 casing volumes, while recording field readings of pH, temperature, and electrical conductivity. Groundwater samples were collected for laboratory analysis by lowering a bottom-fill, disposable bailer to just below the water level in the well. The samples were transferred from the bailer into laboratory-supplied containers. The water sampling field survey forms are presented in Appendix A.



SAMPLING AND ANALYTICAL RESULTS

The results of monitoring and laboratory analysis of the groundwater samples collected for this and previous quarters at former Mobil Oil Corporation site are summarized in Table 1. The potentiometric surface elevations for groundwater in the vicinity, as interpreted from the results of this coordinated monitoring event, are shown in Figure 2. The results of groundwater analysis are shown in Figure 3. The laboratory report and chain of custody record are presented in Appendix B.



TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
 FORMER MOBIL OIL STATION 04-FGN
 14994 EAST 14TH STREET, SAN LEANDRO, CALIFORNIA

ALISTO PROJECT NO. 10-190

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ppb)	TPH-D (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	TOG (ppb)	KEROSENE (ppb)	VOC (ppb)	PURGEABLE HALOCARBONS	LAB
MW-1 (c)	03/31/88	36.35	---	---	29000	ND<10000	ND<5.0	ND<5.0	550	640	ND<20000	ND<10000	ND (d)	---	CTL
MW-1	01/31/89	36.35	---	---	11200	---	260	ND<20	500	500	---	---	---	ND<1.0	CTL
MW-1	02/24/94	36.35	9.42	26.93	11000	2500	70	ND<0.5	260	180	ND<5000	---	ND (d)	ND (d)	SAL
QC-1 (e)	02/24/94	36.35	---	---	11000	---	88	ND<0.5	230	190	---	---	---	---	SAL
MW-1	08/23/94	36.35	12.00	24.35	13000	7100	61	50	280	230	ND<5000	---	ND (d)	ND (d)	SAL
QC-1 (e)	08/23/94	---	---	---	13000	---	58	38	310	230	---	---	---	---	SAL
MW-2	02/24/94	36.61	9.52	27.09	6400	4500	31	ND<0.5	58	42	ND<5000	---	---	---	SAL
MW-2	08/23/94	36.61	12.05	24.56	7500	7100	42	21	71	53	ND<5000	---	---	---	SAL
MW-3	02/24/94	36.92	9.85	27.07	19000	10000	52	30	690	290	ND<5000	---	---	---	SAL
MW-3	08/23/94	36.92	12.33	24.59	14000	11000	44	24	1000	100	ND<5000	---	---	---	SAL
QC-2 (f)	02/24/94	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	SAL
QC-2 (f)	08/23/94	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	SAL

ABBREVIATIONS:

TPH-G Total petroleum hydrocarbons as gasoline
 TPH-D Total petroleum hydrocarbons as diesel
 B Benzene
 T Toluene
 E Ethylbenzene
 X Total xylenes
 TOG Total oil and grease
 VOC Volatile organic compounds
 ppb Parts per billion
 --- Not measured/analyzed/applicable
 ND Not detected above reported detection limits
 CTL Curtis & Tompkins, Ltd.
 SAL Sequoia Analytical Laboratory

NOTES:

- (a) Top of casing elevations surveyed in reference to Unocal datum, MW-7. Elevation, 36.09 feet, located on the southeast corner at the intersection of East 14th Street and 150th Avenue.
- (b) Groundwater elevations in feet above mean sea level.
- (c) A search of 70,000 compounds within the Wiley/NBS spectral data library also detected the following: propylbenzene at 240 ppb, ethylcyclobutane at 98 ppb, 2-methylpentane at 94 ppb, 2-methylbutane at 88 ppb, 2,3-dimethylpentane at 73 ppb, 2-methylhexane at 58 ppb, 3-methylhexane at 57 ppb, and 2,5,6-trimethyloctane at 57 ppb.
- (d) Various detection limits, see laboratory report.
- (e) Blind duplicate.
- (f) Travel blank.

EX-10-190-190-2-1A.WC2

TABLE 2 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
 UNOCAL CORPORATION SERVICE STATION
 15008 EAST 14TH STREET, SAN LEANDRO, CALIFORNIA

ALISTO PROJECT NO. 10-190

WELL ID	DATE OF MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	LAB
MW-1	08/23/93	---	---	---	24000	160	110	840	810	---
MW-1	11/23/93	---	---	---	18000	210	63	900	620	---
MW-1	02/24/94	36.37	9.45	26.92	18000	74	30	940	480	---
MW-1	08/23/94	36.37	11.98	24.39	24000	130	57	970	320	SAL
MW-2	08/23/93	---	---	---	15000	110	ND	590	64	---
MW-2	11/23/93	---	---	---	11000	80	10	480	20	---
MW-2	02/24/94	36.34	9.27	27.07	11000	44	ND	580	32	---
MW-2	08/23/94	36.34	11.82	24.52	12000	45	10	360	20	SAL
MW-3	08/23/93	---	---	---	2900	25	ND	50	19	---
MW-3	11/23/93	---	---	---	2300	34	ND	24	5.6	---
MW-3	02/24/94	36.42	9.21	27.21	3400	46	ND	53	11	---
MW-3	08/23/94	36.42	11.88	24.54	2900	37	49	14	2.9	SAL
MW-4	08/23/93	---	---	---	1200	5	ND	16	ND	---
MW-4	11/23/93	---	---	---	720	10	ND	8.7	ND	---
MW-4	02/24/94	37.04	9.89	27.15	1300	8.9	ND	20	ND	---
MW-4	08/23/94	37.04	12.57	24.47	690	9.2	1.3	7.1	1.9	SAL
MW-5	08/23/93	---	---	---	61000	340	380	3600	14000	---
MW-5	11/23/93	---	---	---	46000	290	310	4100	15000	---
MW-5	02/24/94	35.94	9.02	26.92	57000	140	400	4400	16000	---
MW-5	08/23/94	35.94	11.57	24.37	61000	360	380	4800	17000	SAL
MW-6	08/23/93	---	---	---	1000	9.4	2.3	5	2.3	---
MW-6	11/23/93	---	---	---	520	ND	1.7	1.9	0.82	---
MW-6	02/24/94	35.67	8.39	27.28	810	12	ND	2.6	0.77	---
MW-6	08/23/94	35.67	10.97	24.70	570	6.8	2.5	3.2	2.6	SAL
MW-7	08/23/93	---	---	---	33000	360	ND	2500	4300	---
MW-7	11/23/93	---	---	---	19000	310	30	2500	2300	---
MW-7	02/24/94	36.09	8.95	27.14	16000	220	19	2400	3200	---
MW-7	08/23/94	36.09	11.43	24.66	19000	210	50	2000	2800	SAL
MW-8	08/23/93	---	---	---	280	49	4.5	ND	ND	---
MW-8	11/23/93	---	---	---	1800	ND	3.4	ND	ND	---
MW-8	02/24/94	36.89	10.44	26.45	1200	10	2.3	ND	3.2	---
MW-8	08/23/94	36.89	12.81	24.28	3200	45	18	2	7.2	SAL
MW-9	08/23/93	---	---	---	3000	29	ND	ND	ND	---
MW-9	11/23/93	---	---	---	2500	23	2.1	ND	ND	---
MW-9	02/24/94	36.29	9.74	26.55	2900	35	ND	ND	ND	---
MW-9	08/23/94	36.29	11.99	24.30	2600	28	32	ND	ND	SAL

TABLE 2 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
 UNOCAL CORPORATION SERVICE STATION
 15008 EAST 14TH STREET, SAN LEANDRO, CALIFORNIA

ALISTO PROJECT NO. 10-190

WELL ID	DATE OF MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	LAB
MW-10	08/23/93	---	---	---	20000	230	13	3200	140	---
MW-10	11/23/93	---	---	---	18000	300	10	2800	110	---
MW-10	02/24/94	36.04	9.57	26.47	15000	330	19	2000	83	---
MW-10	08/23/94	36.04	11.81	24.23	16000	250	41	1800	74	SAL
MW-11	08/23/93	---	---	---	5400	68	ND	230	43	---
MW-11	11/23/93	---	---	---	3400	105	ND	120	43	---
MW-11	02/24/94	35.50	9.20	26.30	4600	170	ND	140	36	---
MW-11	08/23/94	35.50	11.39	24.11	7300	250	13	150	42	SAL

ABBREVIATIONS:

TPH-G Total petroleum hydrocarbons as gasoline
 TPH-D Total petroleum hydrocarbons as diesel
 B Benzene
 T Toluene
 E Ethylbenzene
 X Total xylenes
 TOG Total oil and grease
 VOC Volatile organic compounds
 ppb Parts per billion
 --- Not analyzed/measured
 ND Not detected above reported detection limits
 SAL Sequoia Analytical Laboratory

NOTES:

(a) Top of casing elevations surveyed to the nearest 0.01 foot above mean sea level, relative to benchmark (elevation = 36.88) at the northwest corner of East 14th Street and 150th Avenue.
 (b) Groundwater elevations in feet above mean sea level.

ES\10-190190-2-1B.W02



SOURCE:
USGS MAP, HAYWARD AND SAN LEANDRO QUADRANGLE,
7.5 MINUTE SERIES. 1959.
PHOTOREVISED 1980.



FIGURE 1

SITE VICINITY MAP

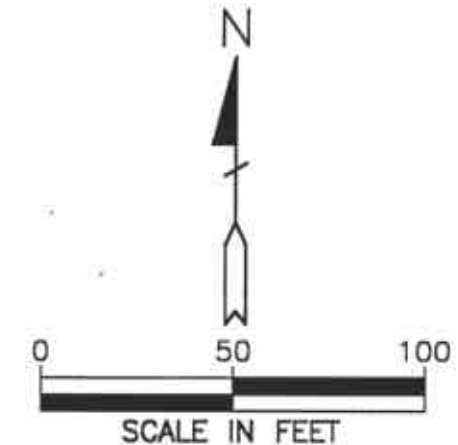
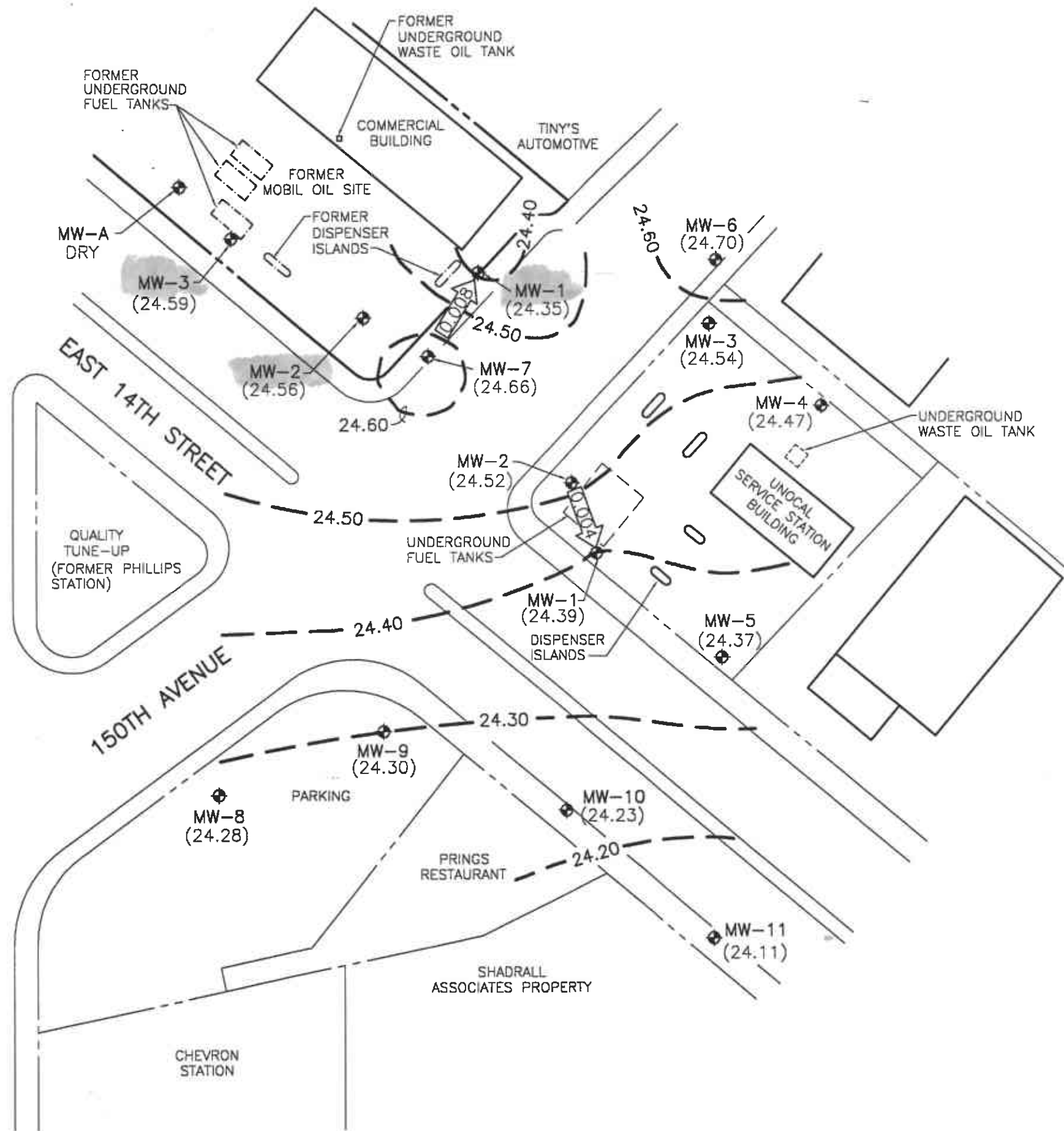
FORMER MOBIL OIL CORPORATION
STATION 04-FGN
14994 EAST 14TH STREET
SAN LEANDRO, CALIFORNIA

PROJECT NO. 10-190



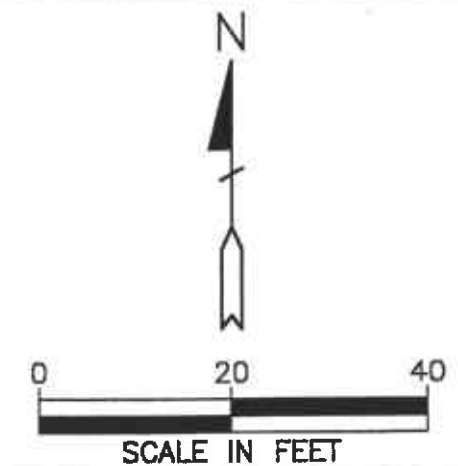
ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA

HESPERIAN BOULEVARD



- LEGEND**
- ◆ GROUNDWATER MONITORING WELL
 - (24.35) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
 - 24.50 - GROUNDWATER ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL (CONTOUR INTERVAL - 0.50 FOOT)
 - ← 0.008 CALCULATED GROUNDWATER GRADIENT DIRECTION AND MAGNITUDE IN FOOT PER FOOT

FIGURE 2
POTENTIOMETRIC GROUNDWATER ELEVATION CONTOUR MAP
AUGUST 23, 1994
FORMER MOBIL OIL CORPORATION
STATION 04-FGN
14994 EAST 14TH STREET
SAN LEANDRO, CALIFORNIA
PROJECT NO. 10-190

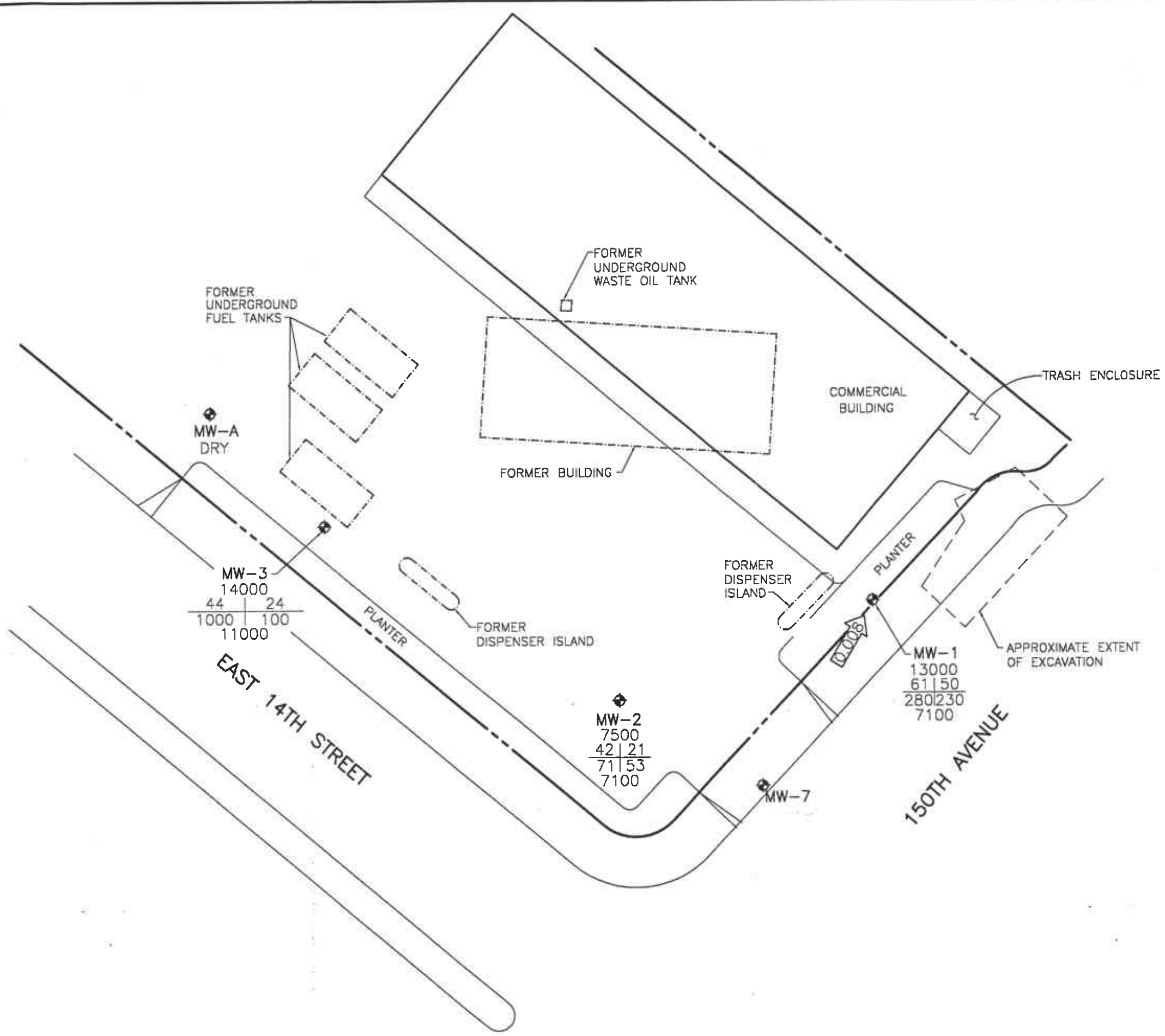


LEGEND

- ⊕ GROUNDWATER MONITORING WELL
- TPH-G
B | T
E | X
TPH-D
CONCENTRATION OF CONSTITUENTS
IN PARTS PER BILLION
- TPH-G TOTAL PETROLEUM
HYDROCARBONS AS GASOLINE
- B BENZENE
- T TOLUENE
- E ETHYLBENZENE
- X TOTAL XYLENES
- TPH-D TOTAL PETROLEUM
HYDROCARBONS AS DIESEL
- ND NOT DETECTED ABOVE REPORTED
DETECTION LIMIT
- ← 0.008 CALCULATED GROUNDWATER
GRADIENT DIRECTION AND
MAGNITUDE IN FOOT PER FOOT

FIGURE 3
**CONCENTRATIONS OF PETROLEUM
 HYDROCARBONS IN GROUNDWATER**
AUGUST 23, 1994

FORMER MOBIL OIL CORPORATION
 STATION 04-FGN
 14994 EAST 14TH STREET
 SAN LEANDRO, CALIFORNIA
 PROJECT NO. 10-190



APPENDIX A
WATER SAMPLING FIELD SURVEY FORMS

ALISTO ENGINEERING GROUP GROUNDWATER MONITORING

Client: Mobil Oil Corp.
 Alisto Project No: 10-190-2-1
 Service Station No: 04-F64

Date: 8/23/94
 Field Personnel: C. Ladd
 Site Address: 14994 R. 14th St.,
 San Leandro, Ct.

FIELD ACTIVITY:

- Groundwater Monitoring
- Groundwater Sampling
- Well Development

QUALITY CONTROL SAMPLES:

- MW-1 QC-1 Sample Duplicate (Well ID)
- QC-2 Trip Blank
- QC-3 Rinsate Blank

Well ID	Well Diam	Order Measured/ Sampled	Total Depth	Depth to Water	Depth to Product	Product Thick-ness	Comments
MW-1	2"	3	18.70	12.00	⊗		hex key; has screw cap.
MW-2		1	24.84	12.05			lock cap O.K.
MW-3	∨	2	22.57	12.33	∨		lock cap O.K.

Notes:

ALISTO ENGINEERING GROUP

Groundwater Development and Sampling Form

Client: Mobil Oil Corp.
 Alisto Project No: 10-190-2-1
 Service Station No: 04-FGW

Date: 8/23/94
 Field Personnel: C. Ladd
 Address: 14994 E. 14th St.
San Leandro, CA

Well ID: MW-1 Field Activity: Well Development Well Sampling Product Bailing
QC 1

Casing Diameter:

Purge Method:

Well Data:

2 Inch (0.16 Gal/foot) Pump (dispos. Poly Tubing)
 3 Inch (0.37 Gal/foot) Disposable Bailers
 4 Inch (0.65 Gal/foot) Other
 4.5 Inch (0.83 Gal/foot) 1.66 PVC Standard Bailer
 6 Inch (1.47 Gal/foot) 3.50 PVC Standard Bailer

Depth to Product
Product Thickness
Depth to Water

Sampling Method:

Decontamination Method:

Disposable Bailer
 Pump

Triple Rinse (Liquinox)
 Steam Cleaned

Calculated Purge Volume

$$\frac{18.70 - 12.00}{18.70} = \frac{6.7 \text{ ft} \times 1.6 \text{ Gal/Ft}}{18.70} = \frac{1.07 \text{ Gal}}{18.70} \times 3 = \frac{3.21}{18.70} = \text{Total Volume}$$

Total Depth of Well Depth to Water Water Column Conversion Factor Casing Vol Vols to Purge Total Volume

Well Development/Sampling Parameters

Time	Temp °F	pH	Cond. (umhos/cm)	Purge Vol (Gal)	Comments/Turbidity	Analysis Required	Container Type	Preserv
1:40	77.2	7.19	0.96	1	gray/brown; turbid	TPH-G/BTEX	VOA	HCL
1:42	74.0	6.88	0.87	2	"			
1:45	72.3	6.84	0.90	2.5	"	TPH-Diesel	Amber Liter	Solvent Rinsed
1:47	72.1	6.82	0.89	3.0	"	EPA 601	VOA	
						TOG 5520BF	Amber Liter	H ₂ SO ₄

QC-1 taken from this well.

ALISTO ENGINEERING GROUP

Groundwater Development and Sampling Form

Client: Mobile Oil Corp.
 Alisto Project No: 10-190-2-1
 Service Station No: 04-F6W

Date: 8/23/94
 Field Personnel: C. Ladd
 Address: 14994 E. 14th St.
San Leandro, CA

Well ID: W-2 Field Activity: Well Development Well Sampling Product Bailing

Casing Diameter:

Purge Method:

Well Data:

- 2 Inch (0.16 Gal/foot) Pump (dispos. Poly Tubing)
 3 Inch (0.37 Gal/foot) Disposable Bailers
 4 Inch (0.65 Gal/foot) Other
 4.5 Inch (0.83 Gal/foot) 1.66 PVC Standard Bailer
 6 Inch (1.47 Gal/foot) 3.50 PVC Standard Bailer

- Depth to Product
 Product Thickness
 Depth to Water

Sampling Method:

Decontamination Method:

- Disposable Bailer
 Pump

- Triple Rinse (Liquinox)
 Steam Cleaned

Calculated Purge Volume

$$\frac{24.84}{24.84} - \frac{12.05}{12.05} = 12.8 \text{ ft} \times 0.16 \text{ Gal/Ft} = 2.05 \text{ Gal} \times 3 = 6.15$$

Total Depth of Well Depth to Water Water Column Conversion Factor Casing Vol Vols to Purge Total Volume

Well Development/Sampling Parameters

Time	Temp °F	pH	Cond. (umhos/cm)	Purge Vol (Gal)	Comments/Turbidity	Analysis Required	Container Type	Preserv
11:20	79.2	6.83	0.94	1	gray/brown; turbid	TPH-G/BTEX	VOA	HCL
11:24	77	6.71	0.89	2	"			
11:26	75.2	6.73	0.86	3	"	TPH-Diesel	Amber Liter	Solvent Rinsed
11:28	74.9	6.76	0.85	4	"			
11:30	74.8	6.75	0.84	5	"	EPA 601	VOA	
						TOG 5520BF	Amber Liter	H ₂ SO ₄

ALISTO ENGINEERING GROUP

Groundwater Development and Sampling Form

Client: Mobil Oil Corp
 Alisto Project No: 10-190-2-1
 Service Station No: 04-FGN

Date: 8/22/94
 Field Personnel: C. Ladd
 Address: 14994 E. 14th St
San Leandro, CA

Well ID: MW-3 Field Activity: Well Development Well Sampling Product Bailing

Casing Diameter:

Purge Method:

Well Data:

- 2 Inch (0.16 Gal/foot) Pump (dispos. Poly Tubing)
 3 Inch (0.37 Gal/foot) Disposable Bailers
 4 Inch (0.65 Gal/Foot) Other
 4.5 Inch (0.83 Gal/foot) 1.66 PVC Standard Bailer
 6 Inch (1.47 Gal/foot) 3.50 PVC Standard Bailer

- Depth to Product
 Product Thickness
 Depth to Water

Sampling Method:

Decontamination Method:

- Disposable Bailer
 Pump

- Triple Rinse (Liquinox)
 Steam Cleaned

Calculated Purge Volume

$$\frac{22.57 - 12.33}{10.24 \text{ ft}} \times 0.16 \text{ Gal/Ft} = 1.64 \text{ Gal} \times 3 = 4.92$$

Total Depth of Well Depth to Water Water Column Conversion Factor Casing Vol Vols to Purge Total Volume

Well Development/Sampling Parameters

Time	Temp °C	pH	Cond. (umhos/cm)	Purge Vol (Gal)	Comments/Turbidity	Analysis Required	Container Type	Preserv
12.15	79.4	6.74	1.33	1	gray/brown turbid	TPH-G/BTEX	VOA	HCL
12.17	76.4	6.67	1.22	2				
12.20	75.2	6.62	1.20	3		TPH-Diesel	Amber Liter	Solvent Rinsed
12.22	74.8	6.59	1.21	4		EPA 601	VOA	
12.24	74.7	6.59	1.20	5		TOG 5520BF	Amber Liter	H ₂ SO ₄

ALISTO ENGINEERING GROUP GROUNDWATER MONITORING

Client: Thacal
~~ALISTO~~ Project No: _____
 Service Station No: 3292

Date: 8/23/94
 Field Personnel: Dick Perrow
 Site Address: 15109 E 14th St.
San Leandro

FIELD ACTIVITY:

- Groundwater Monitoring
- Groundwater Sampling
- Well Development

QUALITY CONTROL SAMPLES:

- QC-1 Sample Duplicate (Well ID)
- QC-2 Trip Blank
- QC-3 Rinsate Blank

Well ID	Well Diam	Order Measured/ Sampled	Total Depth	Depth to Water	Depth to Product	Product Thick-ness	Comments
<u>MW-1</u>				<u>11.98</u>			
<u>MW-2</u>				<u>11.92</u>			
<u>MW-3</u>				<u>11.93</u>			
<u>MW-4</u>				<u>12.57</u>			
<u>MW-5</u>				<u>11.57</u>			
<u>MW-6</u>				<u>10.97</u>			
<u>MW-7</u>				<u>11.43</u>			
<u>MW-8</u>				<u>12.61</u>			
<u>MW-9</u>				<u>11.99</u>			
<u>MW-10</u>				<u>11.81</u>			
<u>MW-11</u>				<u>11.39</u>			

Notes:

APPENDIX B

LABORATORY REPORT AND CHAIN OF CUSTODY RECORD



Alisto Engineering Group 1777 Oakland Blvd., Ste. 200 Walnut Creek, CA 94596 Attention: William Shipp	Client Project ID: Mobil 04-FGN / 10-190-02-001 Sample Matrix: Water Analysis Method: EPA 5030/8015/8020 First Sample #: 408-1448	Sampled: Aug 23, 1994 Received: Aug 24, 1994 Reported: Sep 1, 1994
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TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 408-1448 MW-1	Sample I.D. 408-1449 MW-2	Sample I.D. 408-1450 MW-3	Sample I.D. 408-1451 QC-1	Sample I.D. 408-1452 QC-2
Purgeable Hydrocarbons	50	13,000	7,500	14,000	13,000	N.D.
Benzene	0.50	61	42	44	58	N.D.
Toluene	0.50	50	21	24	38	N.D.
Ethyl Benzene	0.50	280	71	1,000	310	N.D.
Total Xylenes	0.50	230	53	100	230	N.D.
Chromatogram Pattern:		Gasoline	Gasoline	Gasoline	Gasoline	--

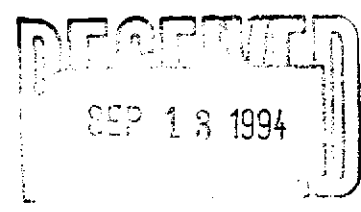
Quality Control Data

Report Limit Multiplication Factor:	50	50	50	50	1.0
Date Analyzed:	8/27/94	8/27/94	8/27/94	8/27/94	8/27/94
Instrument Identification:	HP-4	HP-4	HP-4	HP-4	HP-4
Surrogate Recovery, %: (QC Limits = 70-130%)	101	95	88	98	99

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

Karen L. Enstrom
 Project Manager





Sequoia Analytical

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

Alisto Engineering Group 1777 Oakland Blvd., Ste. 200 Walnut Creek, CA 94596 Attention: William Shipp	Client Project ID: Mobil 04-FGN / 10-190-02-001 Sample Matrix: Water Analysis Method: EPA 3510/3520/8015 First Sample #: 408-1448	Sampled: Aug 23, 1994 Received: Aug 24, 1994 Reported: Sep 2, 1994
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TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit µg/L	Sample I.D. 408-1448 MW-1	Sample I.D. 408-1449 MW-2	Sample I.D. 408-1450 MW-3
Extractable Hydrocarbons	50	7,100	7,100	11,000
Chromatogram Pattern:		Unidentified Hydrocarbons <C14	Unidentified Hydrocarbons <C14	Unidentified Hydrocarbons <C14

Quality Control Data

Report Limit Multiplication Factor:	10	10	10
Date Extracted:	8/25/94	8/25/94	8/25/94
Date Analyzed:	9/1/94	9/1/94	9/1/94
Instrument Identification:	HP-3A	HP-3A	HP-3A

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


 Karen L. Enstrom
 Project Manager





Alisto Engineering Group 1777 Oakland Blvd., Ste. 200 Walnut Creek, CA 94596 Attention: William Shipp	Client Project ID: Mobil 04-FGN / 10-190-02-001 Matrix Descript: Water Analysis Method: SM 5520 B&F (Gravimetric) First Sample #: 408-1448	Sampled: Aug 23, 1994 Received: Aug 24, 1994 Extracted: Aug 29, 1994 Analyzed: Aug 29, 1994 Reported: Sep 1, 1994
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TOTAL RECOVERABLE PETROLEUM OIL

Sample Number	Sample Description	Oil & Grease mg/L (ppm)	Detection Limit Multiplication Factor
408-1448	MW-1	N.D.	1.0
408-1449	MW-2	N.D.	1.0
408-1450	MW-3	N.D.	1.0

Detection Limits:	5.0
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Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL, #1271


Karen L. Enstrom
Project Manager





**Sequoia
Analytical**

680 Chesapeake Drive Redwood City, CA 94063 (415) 364-9600 FAX (415) 364-9233
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819 Striker Avenue, Suite 8 Sacramento, CA 95834 (916) 921-9600 FAX (916) 921-0100

Alisto Engineering Group
1777 Oakland Blvd., Ste. 200
Walnut Creek, CA 94596
Attention: William Shipp

Client Project ID: Mobil 04-FGN / 10-190-02-001
Matrix: Liquid

QC Sample Group: 4081448-52

Reported: Sep 2, 1994

QUALITY CONTROL DATA REPORT

ANALYTE Oil & Grease

Method: SM 5520 BF

Analyst: D. Newcomb

Date Analyzed: 8/31/94

Sample #: BLK082994

**Sample
Concentration:** 93

**Sample
Duplicate
Concentration:** 93

RPD: 0.0

**RPD
Control Limits:** 0-30

SEQUOIA ANALYTICAL, #1271


Karen L. Enstrom
Project Manager

4081448.ALS <4>



Mobil Chain of Custody



**SEQUOIA
ANALYTICAL**

Redwood City: (415) 364-9600
 Concord: (510) 686-9600
 Sacramento: (916) 921-9600

Consulting Firm Name: <u>ALISTO ENGINEERING INC</u>	Site SS #: <u>04-FGN</u>	Phase of Work:
Address: <u>1777 OAKLAND BLVD, SUITE 200</u>	Mobil Site Address: <u>14994 E 14th St, San Leandro, CA</u>	<input type="checkbox"/> A. Emrg. Response
City: <u>WALNUT CREEK</u> State: <u>CA</u> Zip Code: <u>94596</u>	Mobil Engineer:	<input checked="" type="checkbox"/> B. Site Assessment
Telephone: <u>(510) 295-1650</u> FAX #: <u>295-1823</u>	Consultant Project #: <u>10-190-02-001</u>	<input type="checkbox"/> C. Remediation
Project Contact: <u>William Shipp</u> Sampled by: <u>C. Ladd</u>	Sequoia's Work Order Release #:	<input type="checkbox"/> D. Monitoring
		<input type="checkbox"/> E. OGC/Claims

Turnaround Time: Standard TAT (5 - 10 Working Days)
 Other _____

Analyses Requested

Client Sample I.D.	Date/Time Sampled	Matrix Description	# of Containers	Sequoia's Sample #	Analyses Requested							Comments
					TPH Gas/BTEX	TPH Diesel	TPH by I.R. EPA 418.1	Oil & Grease EPA 801.1	EPA 8010	HVOC	VOC EPA 8240	
1. MW-1	8/23/94	WATER	10	4081448	X	X	X	X	X			
2. MW-2			5	4081449	X	X	X					
3. MW-3			5	4081450	X	X	X					
4. QC-1			2	4081451	X							
5. QC-2			1	4081452	X							
6.												
7.												
8.												
9.												
10.												

Relinquished By: <u>[Signature]</u>	Date: <u>8/24/94</u>	Time: <u>1540</u>	Received By: <u>[Signature]</u>	Date: <u>8/24/94</u>	Time: <u>1540</u>
Relinquished By: <u>[Signature]</u>	Date: <u>8/24/94</u>	Time: <u>4:30</u>	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By: <u>P.H. Kelley</u>	Date: <u>8/24/94</u>	Time: <u>4:30 pm</u>

Method of Shipment _____



Sequoia Analytical

680 Chesapeake Drive
1900 Bates Avenue, Suite L
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Concord, CA 94520
Sacramento, CA 95834

(415) 364-9600
(510) 686-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 686-9689
FAX (916) 921-0100

Alisto Engineering Group
1777 Oakland Blvd., Ste. 200
Walnut Creek, CA 94596
Attention: William Shipp

Client Project ID: Mobil 04-FGN / 10-190-02-001
Sample Descript: Water, MW-1
Analysis Method: EPA 5030/8010
Lab Number: 408-1448

Sampled: Aug 23, 1994
Received: Aug 24, 1994
Analyzed: Aug 30, 1994
Reported: Sep 8, 1994

SEP 15 1994 HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane.....	2.5	N.D.
Bromoform.....	2.5	N.D.
Bromomethane.....	5.0	N.D.
Carbon tetrachloride.....	2.5	N.D.
Chlorobenzene.....	2.5	N.D.
Chloroethane.....	5.0	N.D.
2-Chloroethylvinyl ether.....	5.0	N.D.
Chloroform.....	2.5	N.D.
Chloromethane.....	5.0	N.D.
Dibromochloromethane.....	2.5	N.D.
1,3-Dichlorobenzene.....	2.5	N.D.
1,4-Dichlorobenzene.....	2.5	N.D.
1,2-Dichlorobenzene.....	2.5	N.D.
1,1-Dichloroethane.....	2.5	N.D.
1,2-Dichloroethane.....	2.5	N.D.
1,1-Dichloroethene.....	2.5	N.D.
cis-1,2-Dichloroethene.....	2.5	N.D.
trans-1,2-Dichloroethene.....	2.5	N.D.
1,2-Dichloropropane.....	2.5	N.D.
cis-1,3-Dichloropropene.....	2.5	N.D.
trans-1,3-Dichloropropene.....	2.5	N.D.
Methylene chloride.....	25	N.D.
1,1,2,2-Tetrachloroethane.....	2.5	N.D.
Tetrachloroethene.....	2.5	N.D.
1,1,1-Trichloroethane.....	2.5	N.D.
1,1,2-Trichloroethane.....	2.5	N.D.
Trichloroethene.....	2.5	N.D.
Trichlorofluoromethane.....	2.5	N.D.
Vinyl chloride.....	5.0	N.D.

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

Karen L. Enstrom
Project Manager





Alisto Engineering Group 1777 Oakland Blvd., Ste. 200 Walnut Creek, CA 94596 Attention: William Shipp	Client Project ID: Mobil 04-FGN / 10-190-02-001 Sample Descript: Water, MW-1 Analysis Method: EPA 8240 Lab Number: 408-1448	Sampled: Aug 23, 1994 Received: Aug 24, 1994 Analyzed: Sep 1, 1994 Reported: Sep 8, 1994
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VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone.....	50	N.D.
Benzene.....	10	N.D.
Bromodichloromethane.....	10	N.D.
Bromoform.....	10	N.D.
Bromomethane.....	10	N.D.
2-Butanone.....	50	N.D.
Carbon disulfide.....	10	N.D.
Carbon tetrachloride.....	10	N.D.
Chlorobenzene.....	10	N.D.
Chloroethane.....	10	N.D.
2-Chloroethyl vinyl ether.....	50	N.D.
Chloroform.....	10	N.D.
Chloromethane.....	10	N.D.
Dibromochloromethane.....	10	N.D.
1,1-Dichloroethane.....	10	N.D.
1,2-Dichloroethane.....	10	N.D.
1,1-Dichloroethene.....	10	N.D.
cis-1,2-Dichloroethene.....	10	N.D.
trans-1,2-Dichloroethene.....	10	N.D.
1,2-Dichloropropane.....	10	N.D.
cis-1,3-Dichloropropene.....	10	N.D.
trans-1,3-Dichloropropene.....	10	N.D.
Ethylbenzene.....	10	310
2-Hexanone.....	50	N.D.
Methylene chloride.....	25	N.D.
4-Methyl-2-pentanone.....	50	N.D.
Styrene.....	10	N.D.
1,1,2,2-Tetrachloroethane.....	10	N.D.
Tetrachloroethene.....	10	N.D.
Toluene.....	10	11
1,1,1-Trichloroethane.....	10	N.D.
1,1,2-Trichloroethane.....	10	N.D.
Trichloroethene.....	10	N.D.
Trichlorofluoromethane.....	10	N.D.

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





Alisto Engineering Group 1777 Oakland Blvd., Ste. 200 Walnut Creek, CA 94596 Attention: William Shipp	Client Project ID: Mobil 04-FGN / 10-190-02-001 Sample Descript: Water, MW-1 Analysis Method: EPA 8240 Lab Number: 408-1448	Sampled: Aug 23, 1994 Received: Aug 24, 1994 Analyzed: Sep 1, 1994 Reported: Sep 8, 1994
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VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/L	Sample Results µg/kg
Vinyl acetate.....	2.0	N.D.
Vinyl chloride.....	2.0	N.D.
Total Xylenes	10	220

Surrogates	Control Limit %	% Recovery
1,2-Dichloroethane-d4.....	50	150
Toluene-d8.....	50	150
4-Bromofluorobenzene.....	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


Karen L. Enstrom
Project Manager





Alisto Engineering Group
1777 Oakland Blvd., Ste. 200
Walnut Creek, CA 94596
Attention: William Shipp

Client Project ID: Mobil 04-FGN / 10-190-02-001
Matrix: Liquid

QC Sample Group: 408-1448

Reported: Sep 8, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene
Method:	EPA 8010	EPA 8010	EPA 8010
Analyst:	K. Nill	K. Nill	K. Nill

MS/MSD			
Batch#:	4081426	4081426	4081426
Date Prepared:	8/29/94	8/29/94	8/29/94
Date Analyzed:	8/29/94	8/29/94	8/29/94
Instrument I.D.#:	HP5890/7	HP5890/7	HP5890/7
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L
Matrix Spike % Recovery:	118	97	87
Matrix Spike Duplicate % Recovery:	106	96	88
Relative % Difference:	11	1.0	1.1

LCS Batch#:	LCS083094	LCS083094	LCS083094
Date Prepared:	8/30/94	8/30/94	8/30/94
Date Analyzed:	8/30/94	8/30/94	8/30/94
Instrument I.D.#:	HP5890/7	HP5890/7	HP5890/7
LCS % Recovery:	109	92	91

% Recovery Control Limits:	28-167	35-146	68-150
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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.

SEQUOIA ANALYTICAL, #1271

Karen L. Enstrom
Project Manager





Allisto Engineering Group 1777 Oakland Blvd., Ste. 200 Walnut Creek, CA 94596 Attention: William Shipp	Client Project ID: Mobil 04-FGN / 10-190-02-001 Matrix: Liquid QC Sample Group: 408-1448	Reported: Sep 8, 1994
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QUALITY CONTROL DATA REPORT

ANALYTE	1,1-Dichloroethene	Trichloroethene	Benzene	Toluene	Chloro-benzene
Method:	EPA 8240	EPA 8240	EPA 8240	EPA 8240	EPA 8240
Analyst:	M. Nguyen	M. Nguyen	M. Nguyen	M. Nguyen	M. Nguyen

MS/MSD					
Batch#:	4081654	4081654	4081654	4081654	4081654
Date Prepared:	9/1/41	9/1/41	9/1/41	9/1/41	9/1/41
Date Analyzed:	9/1/41	9/1/41	9/1/41	9/1/41	9/1/41
Instrument I.D.#:	GC/MS 2	GC/MS 2	GC/MS 2	GC/MS 2	GC/MS 2
Conc. Spiked:	50 µg/L	50 µg/L	50 µg/L	50 µg/L	50 µg/L
Matrix Spike					
% Recovery:	80	108	112	112	108
Matrix Spike Duplicate %					
Recovery:	84	104	104	108	108
Relative % Difference:	4.9	3.8	7.4	3.6	0.0

LCS Batch#:	LCS090194	LCS090194	LCS090194	LCS090194	LCS090194
Date Prepared:	9/1/41	9/1/41	9/1/41	9/1/41	9/1/41
Date Analyzed:	9/1/41	9/1/41	9/1/41	9/1/41	9/1/41
Instrument I.D.#:	GC/MS 2	GC/MS 2	GC/MS 2	GC/MS 2	GC/MS 2
LCS % Recovery:	80	104	112	104	112

% Recovery Control Limits:	DL-234	71-157	37-151	47-150	37-160
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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.

SEQUOIA ANALYTICAL, #1271

Karen L. Enstrom
Karen L. Enstrom
Project Manager



Mobil Chain of Custody



**SEQUOIA
ANALYTICAL**

Redwood City: (415) 364-9600
 Concord: (510) 686-9600
 Sacramento: (916) 921-9600

Consulting Firm Name: <u>ALISTO ENGINEERING</u>	Site SS #: <u>04-FGN</u>	Phase of Work:
Address: <u>1777 OAKLAND BLVD, SUITE 200</u>	Mobil Site Address: <u>14994 E 14th St., San Leandro, CA</u>	<input type="checkbox"/> A. Emrg. Response
City: <u>WALNUT CREEK</u> State: <u>CA</u> Zip Code: <u>94596</u>	Mobil Engineer:	<input checked="" type="checkbox"/> B. Site Assessment
Telephone: <u>(510) 295-1650</u> FAX #: <u>295-1823</u>	Consultant Project #: <u>10-190-02-001</u>	<input type="checkbox"/> C. Remediation
Project Contact: <u>William Shipp</u> Sampled by: <u>C. Ladd</u>	Sequoia's Work Order Release #:	<input type="checkbox"/> D. Monitoring
		<input type="checkbox"/> E. OGC/Claims

Turnaround Time: Standard TAT (5 - 10 Working Days)
 Other _____

Analyses Requested

Client Sample I.D.	Date/Time Sampled	Matrix Description	# of Containers	Sequoia's Sample #	Analyses Requested							Comments
					TPH Gas/BTEX	TPH Diesel	TRPH by I.R. EPA 418.1	Oil & Grease EPA 801.1-801.4	EPA 801.5-801.8	HVOC	VOC EPA 8240	
1. MW-1	8/23/94	WATER	10	4081448	X	X	X	X	X			
2. MW-2			5	4081449	X	X	X					
3. MW-3			5	4081450	X	X	X					
4. QC-1			2	4081451	X							
5. QC-2			1	4081452	X							
6.												
7.												
8.												
9.												
10.												

Relinquished By: <u>[Signature]</u>	Date: <u>8/24/94</u>	Time: <u>1540</u>	Received By: <u>[Signature]</u>	Date: <u>8/24/94</u>	Time: <u>1540</u>
Relinquished By: <u>[Signature]</u>	Date: <u>8/24/94</u>	Time: <u>4:30</u>	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By: <u>[Signature]</u>	Date: <u>8/24/94</u>	Time: <u>4:30 pm</u>

Method of Shipment _____