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February 24, 1994  
1708-004-00

3775

Mr. Larry Hanna, Project Manager  
UNITED STATES POSTAL SERVICE  
Major Facilities Office  
1407 Union Avenue  
Memphis, Tennessee 38166-0340

**RE: QUARTERLY GROUNDWATER MONITORING PROGRESS REPORT  
SECOND QUARTER  
USPS CONTRACT NO. 059984-89-J-0053; W.O. NO. 23.01  
OAKLAND, CA - P&DC/VMF**

Dear Mr. Hanna:

Geo/Resource Consultants, Inc. (GRC) is pleased to submit to the United States Postal Service (USPS) this report which presents the Second Quarter fluid-level monitoring and groundwater sampling for the above-referenced USPS facility. In accordance with the Alameda County Department of Environmental Health (ACDEH), monthly fluid levels were measured and groundwater samples were collected from monitoring wells MW-1, MW-2, MW-3, MW-4, and MW-5. Groundwater samples were sent to a state-certified laboratory for analyses. All field work was completed in accordance with the ACDEH-accepted "Site Characterization Workplan," prepared by GRC, dated August 26, 1993. Purged groundwater recovered during sampling was drummed pending proper disposal prior to the next quarter's sampling. The results are attached.

Analytical results from all wells except for MW-4 remained at or near reported laboratory detection limits. MW-4 results detected diesel at 850/450 parts per billion and benzene at 0.7/0.8 parts per billion.

Groundwater continued to flow in a general southerly direction across the site.

**ATTACHMENTS:**

- o Figure 1: Vicinity Map
- o Figure 2: Groundwater Elevation Contour Map,  
January 26, 1994
- o Figure 3: Dissolved-Phase Hydrocarbon Concentrations
- o Table 1: Groundwater Sampling and Analyses Summary
- o Appendix 1: Laboratory Reports, Chain of Custody Records

February 24, 1994  
1708-004-00  
Page 2 of 2

Please feel free to contact us at (415) 775-3177, if you have any questions regarding this project.

Sincerely,  
GEO/RESOURCE CONSULTANTS, INC.

*Carmen Choy for*

Gary A. Floyd  
Senior Environmental Scientist

*Glenn S. Goodman*

Glenn S. Goodman  
Manager, Remediation Services  
Senior Hydrogeologist

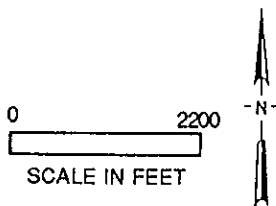
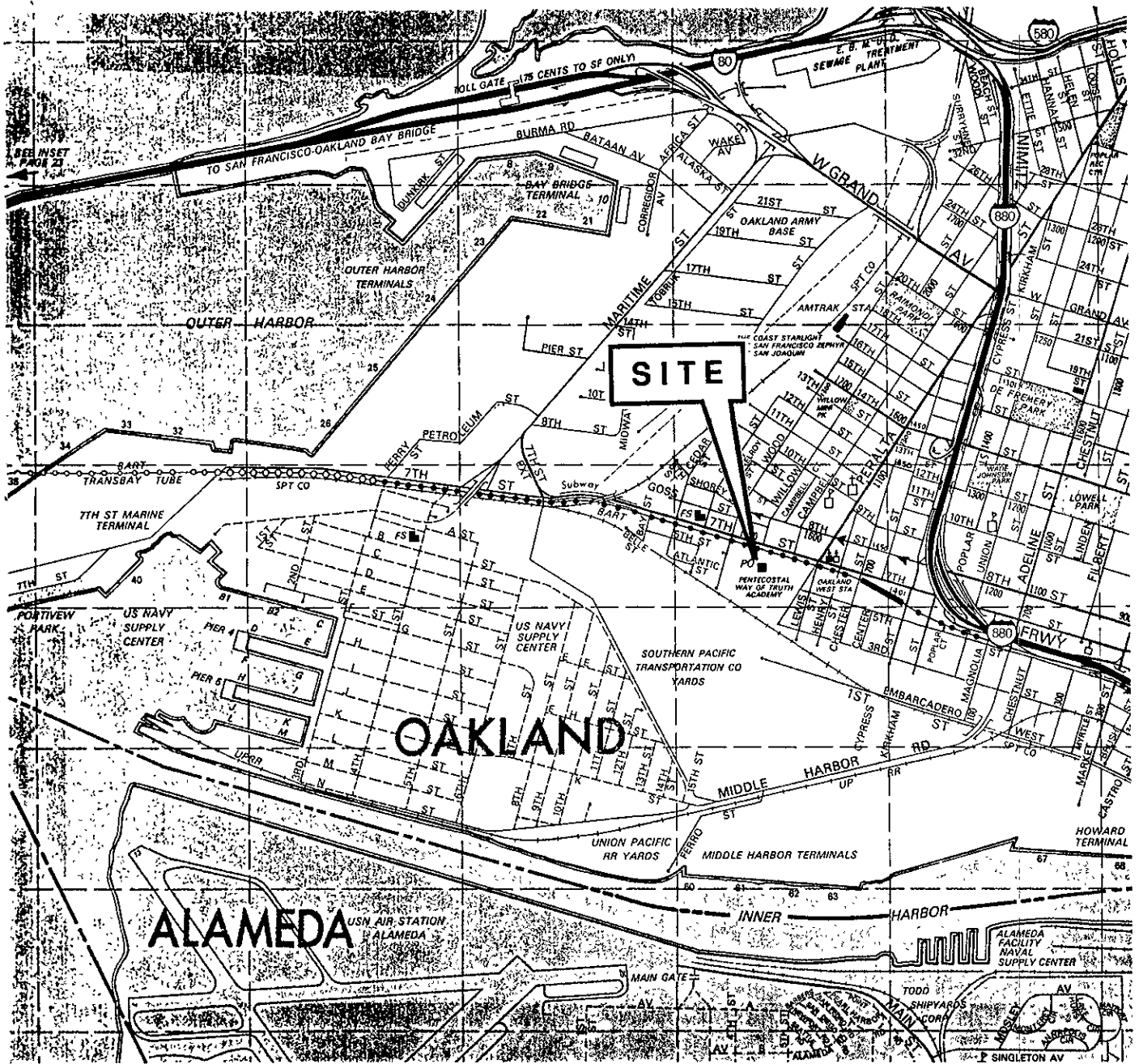
*Carmen Choy for*

Alvin K. Joe, Jr., C.E.G.  
President and CEO

cc: Ms. Jennifer Eberle, ACDEH, 80 Swan Way, Room 350, Oakland,  
CA, 94621, (510) 271-4530  
Stan Scott, USPS, 850 Cherry Ave., San Bruno, CA, 94099-0311  
Steve Wake, USPS, 1675 7th St., Oakland, CA, 94615  
GRC Project File 1708-004-00  
GRC Chron

**ATTACHMENTS**





REFERENCE : Thomas Bros Maps, 1989



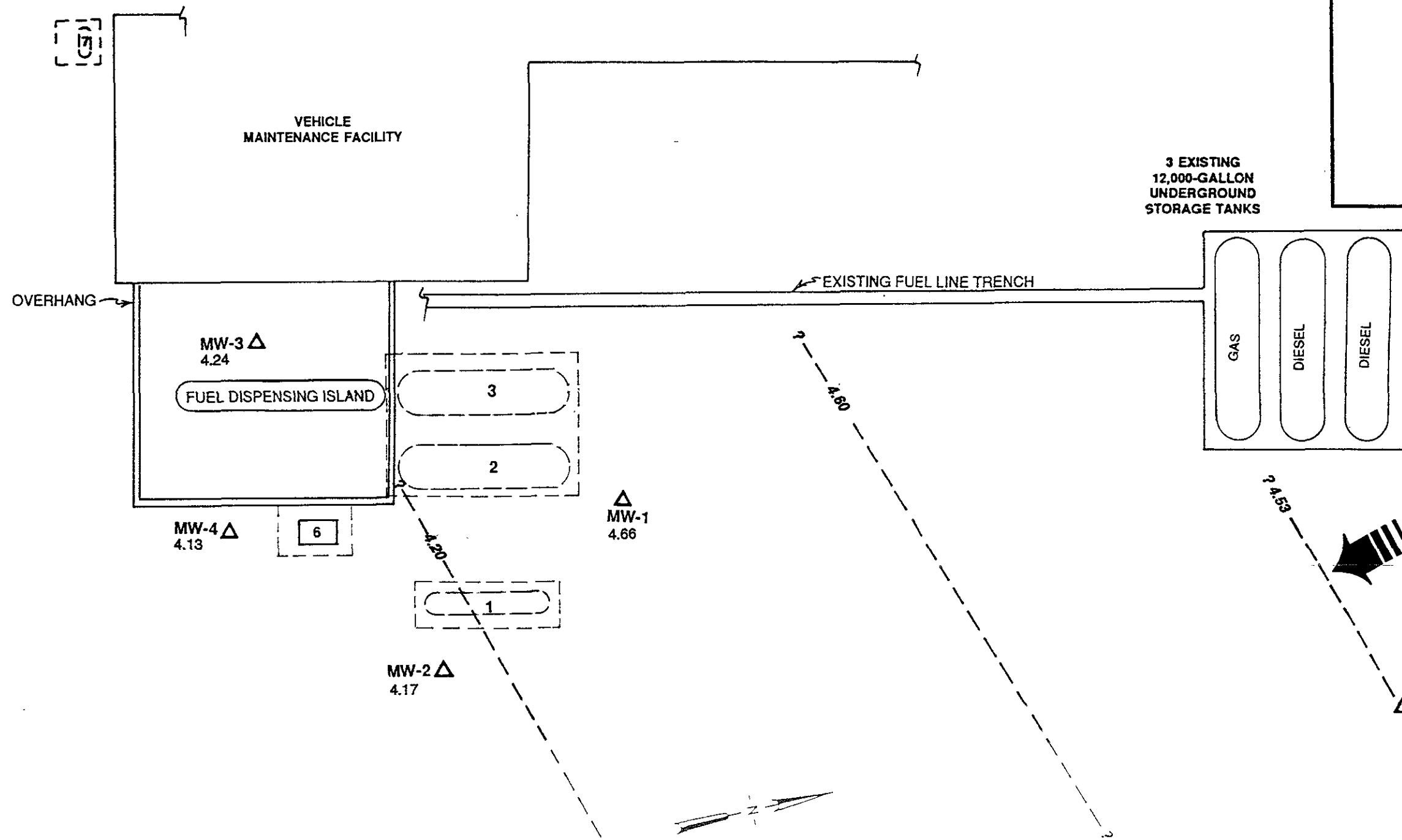
**Geo/Resource Consultants, Inc.**  
 GEOLOGISTS / ENGINEERS / ENVIRONMENTAL SCIENTISTS  
 505 BEACH STREET, SAN FRANCISCO, CALIFORNIA 94133

**VICINITY MAP**  
 SUBSURFACE SITE INVESTIGATION  
 USPS - OAKLAND GMF/VMF  
 OAKLAND, CALIFORNIA

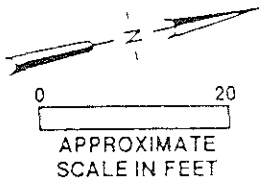
**FIGURE**  
**1**

Job No. 1708-003-00 Appr. \_\_\_\_\_ Date 10/19/93

EXPLANATION	
	MONITORING WELL LOCATION
	GROUNDWATER ELEVATION ABOVE MEAN SEA LEVEL
	GROUNDWATER ELEVATION CONTOUR, 0.10 FOOT INTERVAL
	LIMIT OF EXCAVATION
	REMOVED UNDERGROUND STORAGE TANK TANK No.
	EXISTING TANK (SEE DESIGNATION BELOW)
1	5,000-GALLON GASOLINE
2	10,000-GALLON DIESEL
3	10,000-GALLON DIESEL
4	750-GALLON WASTE OIL
5	10,000-GALLON DIESEL
6	FORMER DIESEL FUEL DISPENSING ISLAND
7	750-GALLON WASTE OIL TANK



NOTES:  
 GROUNDWATER CONTOURS BASED ON GROUNDWATER LEVEL MEASUREMENTS OF 1/26/94.  
 AVERAGE HYDRAULIC GRADIENT EQUALS 0.002 FOOT/FOOT ACROSS THE SITE.



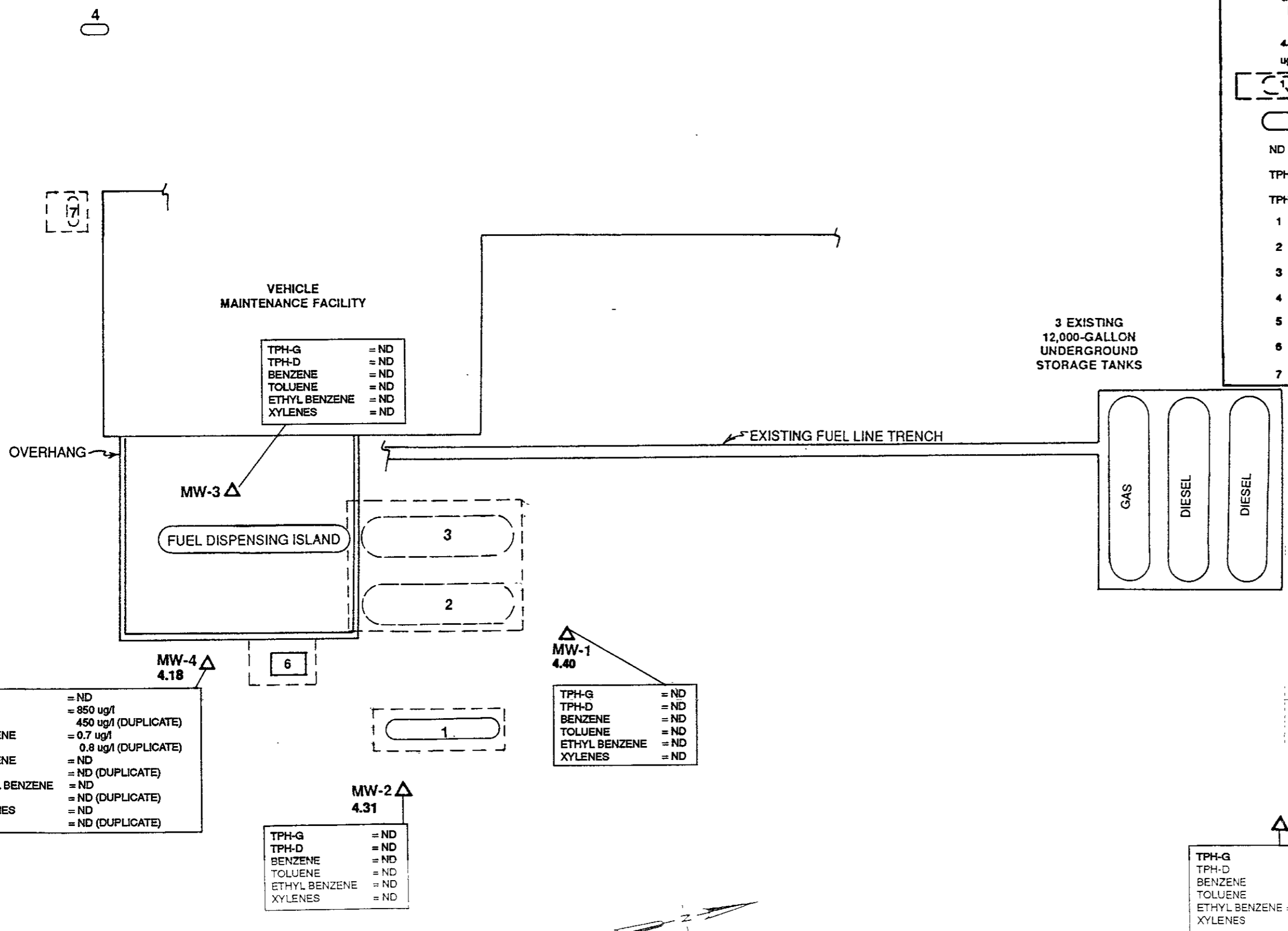
**Geo/Resource Consultants, Inc.**  
 GEOLOGISTS / ENGINEERS / ENVIRONMENTAL SCIENTISTS  
 505 BEACH STREET, SAN FRANCISCO, CALIFORNIA 94133

Job No. 1708-004-00 Appr. *[Signature]* Date 2/24/94

**GROUNDWATER ELEVATION CONTOUR MAP**  
 JANUARY 26, 1994  
 SUBSURFACE SITE INVESTIGATION  
 USPS - OAKLAND GMF/VMF  
 OAKLAND, CALIFORNIA

FIGURE  
**2**

EXPLANATION	
	MONITORING WELL LOCATION
	GROUNDWATER ELEVATION ABOVE MEAN SEA LEVEL
	GROUNDWATER ELEVATION CONTOUR, 0.10 FOOT INTERVAL
	MICROGRAMS PER LITER (APPROXIMATES PARTS PER BILLION)
	LIMIT OF EXCAVATION REMOVED UNDERGROUND STORAGE TANK
	TANK No. EXISTING TANK (SEE DESIGNATION BELOW)
ND	NONE DETECTED
TPH-G	TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
TPH-D	TOTAL PETROLEUM HYDROCARBONS AS DIESEL
1	5,000-GALLON GASOLINE
2	10,000-GALLON DIESEL
3	10,000-GALLON DIESEL
4	750-GALLON WASTE OIL
5	10,000-GALLON DIESEL
6	FORMER DIESEL FUEL DISPENSING ISLAND
7	750-GALLON WASTE OIL TANK



TPH-G	= ND
TPH-D	= ND
BENZENE	= ND
TOLUENE	= ND
ETHYL BENZENE	= ND
XYLENES	= ND

TPH-G	= ND
TPH-D	= 850 ug/l
BENZENE	= 450 ug/l (DUPLICATE)
	= 0.7 ug/l
TOLUENE	= ND
	= ND (DUPLICATE)
ETHYL BENZENE	= ND
	= ND (DUPLICATE)
XYLENES	= ND
	= ND (DUPLICATE)

TPH-G	= ND
TPH-D	= ND
BENZENE	= ND
TOLUENE	= ND
ETHYL BENZENE	= ND
XYLENES	= ND

TPH-G	= ND
TPH-D	= ND
BENZENE	= ND
TOLUENE	= ND
ETHYL BENZENE	= ND
XYLENES	= ND

TPH-G	= ND
TPH-D	= ND
BENZENE	= ND
TOLUENE	= ND
ETHYL BENZENE	= ND
XYLENES	= ND

**Geo/Resource Consultants, Inc.**  
 GEOLOGISTS / ENGINEERS / ENVIRONMENTAL SCIENTISTS  
 505 BEACH STREET, SAN FRANCISCO, CALIFORNIA 94133

Job No. 1708-004-00 Appr. *[Signature]* Date 2/24/94

**DISSOLVED PHASE HYDROCARBON  
 CONCENTRATIONS - JANUARY 26, 1994**  
 SUBSURFACE SITE INVESTIGATION  
 USPS - OAKLAND GMF/VMF  
 OAKLAND, CALIFORNIA

**FIGURE  
 3**

**QUARTERLY GROUNDWATER MONITORING PROGRAM**  
**DATA SUMMARY TABLE\***  
**UNITED STATES POSTAL SERVICE - GENERAL MAIL FACILITY/VEHICLE MAINTENANCE FACILITY**  
**1675 - 7TH STREET, OAKLAND, CALIFORNIA 94165**

WELL NUMBER	MONTHLY GROUNDWATER MEASUREMENT DATES	MONTHLY GROUNDWATER LEVELS (Ft. AMSL)	QUARTERLY GROUNDWATER SAMPLING DATES	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)
MW-1***	9/93	4.40	9/93	ND/ ND	ND/ ND	ND/ ND	ND/ ND	ND/ ND	ND/ ND
	1/94	4.66	1/94	ND ✓	ND ✓	ND ✓	ND	ND	ND
MW-2	9/93	4.31	9/93	ND	ND	ND	ND	ND	ND
	1/94	4.17	1/94	ND ✓	ND ✓	ND ✓	ND	ND	ND
MW-3	9/93	4.28	9/93	ND	ND	ND	ND	ND	ND
	1/94	4.24	1/94	ND ✓	ND ✓	ND ✓	ND	ND	ND
MW-4***	9/93	4.18	9/93	ND	580	ND	ND	ND	ND
	1/94	4.13	1/94	ND/ ND	850/ 450 ✓	0.7/ 0.8 ✓	ND/ ND	ND/ ND	ND/ ND
MW-5	9/93	4.60	9/93	ND ✓	ND	ND	ND	ND	ND
	1/94	4.53	1/94	ND ✓	ND ✓	ND ✓	ND	ND	ND
Detection Limit				50	50	0.5	0.5	0.5	0.5
Test Method				8015M	8015M	8020	8020	8020	8020
Regulatory Criteria				**	**	**	**	**	**

**NOTES:**

TPH-G :Total Petroleum Hydrocarbons as Gasoline  
 TPH-D :Total Petroleum Hydrocarbons as Diesel  
 B :Benzene  
 T :Toluene  
 E :Ethyl Benzene  
 X :Total Xylenes  
 Ft. AMSL :Feet Above Mean Sea Level  
 ug/L :Micrograms per liter (approximates parts per billion (ppb).

--- :Not Analyzed/Not Measured  
 NA :Not Applicable/Not Available  
 ND :Not Detected Above Reported Detection Limits  
 \* :All analyses by Superior Precision Analytical, Inc.  
 \*\* :Regulatory criteria has not been established for these constituents in groundwater.  
 \*\*\* :Results of Discrete and Duplicate sample analyses are listed as Discrete/Duplicate (e.g. 850/450).



# GROUND WATER SAMPLING LOG

DATE 1-26-94 MW I.D. MW-1  
 PROJECT USPS - Oakland PROJECT NO. 1708-004-00  
 WEATHER CONDITIONS ~50°F Partly Cloudy  
 OBSERVATIONS/COMMENTS \_\_\_\_\_  
 SAMPLING COMPLETED BY CSC/bat

### QUALITY CONTROL

Purging Method Pump Sampling Method specific timer  
 Method to Measure Water Level Steel Tape Equip Decon TSP  
 pH Meter 6152  
 Calibration Start 13° / Units / Time \_\_\_\_\_  
 Temperature Start / / Time \_\_\_\_\_  
 Calibration End / Units / Time \_\_\_\_\_  
 Temperature End / / Time \_\_\_\_\_  
 Comments \_\_\_\_\_

Conductivity Meter  
 Calibration Start 600 umhos/cm Time \_\_\_\_\_  
 Temperature Start \_\_\_\_\_ Time \_\_\_\_\_  
 Calibration End \_\_\_\_\_ Time \_\_\_\_\_  
 Temperature End \_\_\_\_\_ Time \_\_\_\_\_  
 Comments total depth 19.68'

### SAMPLING DATA

Water Level 3.64 Start 1000 End \_\_\_\_\_  
 Reference Point Submerged notch of casing

	Time	Pump Rate	Discharge (gallons)	pH	Conductivity	Temp.	Comments (Color/Turb./Etc.)
1	1005		~ 5	6.95	1150	13	Cream-colored, turbid
2	1008		10	6.95	1150	13	" " "
3	1010		15	6.88	<del>1450</del> 750	14.5	" " "
4	1014		20	6.82	700	14.0	" " "
5	1016		25	6.88	700	14.0	" " "
6	1018		30	6.88	700	14.5	" " "
7							
8							
9							
10							
11							
12							
13							
14							
15							

Total Discharge 30 gals. Casing Volumes Extracted 3 Sheet \_\_\_\_\_ of \_\_\_\_\_

$$19.68 - 3.64 = 16.04$$

$$16.04 \cdot 0.78 \cdot 0.11 \cdot 7.48 \cdot 3 = 30.88$$





# GROUND WATER SAMPLING LOG

DATE 1-26-94 MW I.D. MW-2  
 PROJECT USPS - Aukland PROJECT NO. 1708-001-00  
 WEATHER CONDITIONS ~50°F Partly Cloudy  
 OBSERVATIONS/COMMENTS \_\_\_\_\_  
 SAMPLING COMPLETED BY CSG/GAF

### QUALITY CONTROL

Purging Method Pump Sampling Method Acrylic trailer  
 Method to Measure Water Level steel tape Equip Decon TSP  
 pH Meter 6.52  
 Calibration Start 13<sup>00</sup> / Units \_\_\_\_\_ / Time \_\_\_\_\_  
 Temperature Start 13<sup>00</sup> / \_\_\_\_\_ / Time \_\_\_\_\_  
 Calibration End \_\_\_\_\_ / Units \_\_\_\_\_ / Time \_\_\_\_\_  
 Temperature End \_\_\_\_\_ / \_\_\_\_\_ / Time \_\_\_\_\_  
 Comments \_\_\_\_\_

Conductivity Meter \_\_\_\_\_  
 Calibration Start 600 uMhos Time \_\_\_\_\_  
 Temperature Start \_\_\_\_\_ Time \_\_\_\_\_  
 Calibration End \_\_\_\_\_ Time \_\_\_\_\_  
 Temperature End \_\_\_\_\_ Time \_\_\_\_\_  
 Comments Total depth

### SAMPLING DATA

Water Level 4.69 below notch Start 1040 End \_\_\_\_\_  
 Reference Point Surface Notch of casing

	Time	Pump Rate	Discharge (gallons)	pH	Conductivity	Temp.	Comments (Color/Turb./Etc.)
1	1040		5	7.12	700	13	cream-colored, murky
2	1044		10	7.33	850	15	" " "
3	1046		15	7.11	950	15	" " "
4	1048		20	7.28	950	15	" " "
5	1051		28	7.23	950	15	" " "
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Total Discharge \_\_\_\_\_ Casing Volumes Extracted 3 Sheet \_\_\_\_\_ of \_\_\_\_\_

$$\begin{array}{r}
 19.42 \\
 - 4.69 \\
 \hline
 14.73
 \end{array}
 \cdot 0.78 \cdot 0.11 \cdot 7.48 \cdot 3 = 28.36 \text{ gal}$$



# GROUND WATER SAMPLING LOG

DATE 1-26-9 MW I.D. MW-3  
 PROJECT USPL-ADLAM PROJECT NO. 1708-004-00  
 WEATHER CONDITIONS ~50°F Partly Cloudy  
 OBSERVATIONS/COMMENTS \_\_\_\_\_  
 SAMPLING COMPLETED BY CSG/GAF

## QUALITY CONTROL

Purging Method Pump Sampling Method Acrylic trailer  
 Method to Measure Water Level Steel Tape Equip Decon TSP  
 pH Meter \_\_\_\_\_  
 Calibration Start 6:52 / Units / Time \_\_\_\_\_  
 Temperature Start 13 / Time \_\_\_\_\_  
 Calibration End / Units / Time \_\_\_\_\_  
 Temperature End / Time \_\_\_\_\_  
 Comments \_\_\_\_\_

Conductivity Meter 6000uhos  
 Calibration Start \_\_\_\_\_ Time \_\_\_\_\_  
 Temperature Start \_\_\_\_\_ Time \_\_\_\_\_  
 Calibration End \_\_\_\_\_ Time \_\_\_\_\_  
 Temperature End \_\_\_\_\_ Time \_\_\_\_\_  
 Comments Total depth surveyed at h of casing - clear, no steel  
SAMPLING DATA

Water Level 5.04 Start 1105 End \_\_\_\_\_  
 Reference Point Surveyed at h of casing

	Time	Pump Rate	Discharge (gallons)	pH	Conductivity	Temp.	Comments (Color/Turb./Etc.)
1	1105		5	7.94	950	15	Clear-colored, murky
2	1108		10	7.00	1000	15	" " "
3	1110		15	7.09	1000	16	slight-colored
4	1112		20	6.92	1200	16	" "
5	1114		25	6.85	1200	16	" "
6	1116		30	6.90	1250	17	" "
7							
8							
9							
10							
11							
12							
13							
14							
15							

Total Discharge 78 gals. Casing Volumes Extracted 3 vols.  
 Sheet \_\_\_\_\_ of \_\_\_\_\_

$$19.75 - 5.04 = 14.71$$

$$14.71 \cdot 1.71 \cdot 0.78 \cdot 0.11 \cdot 7.18 \cdot 3 = 28.32$$



# GROUND WATER SAMPLING LOG

DATE 1/26/94 MW I.D. MW-4  
 PROJECT USPS - CDD/MDH PROJECT NO. 1708-004-00  
 WEATHER CONDITIONS ~50°F Partly Cloudy  
 OBSERVATIONS/COMMENTS \_\_\_\_\_  
 SAMPLING COMPLETED BY GSC/GAF

### QUALITY CONTROL

Purging Method ump Sampling Method Acrylic bailer  
 Method to Measure Water Level Steel Tape Equip Decon TS  
 pH Meter \_\_\_\_\_  
 Calibration Start / Units / Time \_\_\_\_\_  
 Temperature Start / Time \_\_\_\_\_  
 Calibration End / Units / Time \_\_\_\_\_  
 Temperature End / Time \_\_\_\_\_  
 Comments \_\_\_\_\_

Conductivity Meter \_\_\_\_\_  
 Calibration Start \_\_\_\_\_ Time \_\_\_\_\_  
 Temperature Start \_\_\_\_\_ Time \_\_\_\_\_  
 Calibration End \_\_\_\_\_ Time \_\_\_\_\_  
 Temperature End \_\_\_\_\_ Time \_\_\_\_\_  
 Comments Strong diesel odor, Sheen on surface ~ 1/4" thick

### SAMPLING DATA

Water Level 4.60 Start \_\_\_\_\_ End \_\_\_\_\_  
 Reference Point \_\_\_\_\_

	Time	Pump Rate	Discharge (gallons)	pH	Conductivity	Temp.	Comments (Color/Turb./Etc.)
1	1145		10	6.96	1250	17	stains/slight diesel odor
2	1146		15	6.96	1150	17	" "
3	1150		20	6.86	1150	17	turned opaque gray
4	1154		25	6.90	1150	17	strain top, empty bottom
5	1156		30	6.86	1150	17	" " " "
6	1210		~45				
7							
8							
9							
10							
11							
12							
13							
14							
15							

Total Discharge ~45 gal. Casing Volumes Extracted 4.15 casings  
 Sheet \_\_\_\_\_ of \_\_\_\_\_

19.51  
 4.60  
 14.91

$$14.91 \cdot 0.78 \cdot 0.11 \cdot 7.48 \cdot 3 = 28.7 \text{ gal.}$$



# GROUND WATER SAMPLING LOG

DATE 1-26-94 MW I.D. MW-5  
 PROJECT USPS - OAKLAND PROJECT NO. 1708-004-00  
 WEATHER CONDITIONS 150°F Partly cloudy  
 OBSERVATIONS/COMMENTS \_\_\_\_\_  
 SAMPLING COMPLETED BY GSE/GAT

### QUALITY CONTROL

Purging Method Pump Sampling Method acrylic bailer  
 Method to Measure Water Level Steel tape Equip Decon TSP  
 pH Meter 6.52  
 Conduct. Calibration Start 600 uMhos Units / Time \_\_\_\_\_  
 Temperature Start 13 Time \_\_\_\_\_  
 Calibration End / Units / Time \_\_\_\_\_  
 Temperature End / Time \_\_\_\_\_  
 Comments TOTAL DEPTH 19.88', clear - no screen

### Conductivity Meter

Calibration Start 600 uMhos / 1000 uMhos Time \_\_\_\_\_  
 Temperature Start \_\_\_\_\_ Time \_\_\_\_\_  
 Calibration End \_\_\_\_\_ Time \_\_\_\_\_  
 Temperature End \_\_\_\_\_ Time \_\_\_\_\_  
 Comments \_\_\_\_\_

### SAMPLING DATA

Water Level 3.70 Start 0915 End 0950  
 Reference Point SURFACE NOTCH ON CASING

	Time	Pump Rate	Discharge (gallons)	pH	Conductivity	Temp. °C	Comments (Color/Turb./Etc.)
1	0930		~15	5.73	900	14.5	clear
2	0932		15	5.81	1020	15.0	cream-colored, murky
3	0937		20	5.90	1020	15.0	" " "
4	0940		25	6.22	1250	16.0	" " "
5	0945		30	6.28	1200	15.5	" " "
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Total Discharge \_\_\_\_\_ Casing Volumes Extracted \_\_\_\_\_ Sheet \_\_\_\_\_ of \_\_\_\_\_

19.88  
 - 3.70  
 16.18 ft of water

0.78 · 0.74 · 748 10.38 gal. × 3 = 31.15 gal.

**APPENDIX 1**





# Superior Precision Analytical, Inc.

1555 Burke, Unit I ▪ San Francisco, California 94124 ▪ (415) 647-2081 / fax (415) 821-7123

GEO/RESOURCE CONSULTANTS, INC.  
Attn: GARY FLOYD

Project 1708-004-00  
Reported 28-January-1994

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TOTAL PETROLEUM HYDROCARBONS AS DIESEL  
BY EPA METHOD 8015M

Chronology		Laboratory Number: 57589				
Identification	Sampled	Received	Extracted	Analyzed	Run #	Lab #
MW-1-1/94	01/26/94	01/27/94	01/27/94	01/27/94		1
MW-2-1/94	01/26/94	01/27/94	01/27/94	01/27/94		2
MW-3-1/94	01/26/94	01/27/94	01/27/94	01/27/94		3
MW-4-1/94	01/26/94	01/27/94	01/27/94	01/27/94		4
MW-5-1/94	01/26/94	01/27/94	01/27/94	01/27/94		5
MW-6-1/94	01/26/94	01/27/94	01/27/94	01/27/94		6



# Superior Precision Analytical, Inc.

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GEO/RESOURCE CONSULTANTS, INC.  
Attn: GARY FLOYD

Project 1708-004-00  
Reported 28-January-1994

## TOTAL PETROLEUM HYDROCARBONS AS DIESEL

Laboratory Number	Sample Identification	Matrix
57589- 1	MW-1-1/94	Water
57589- 2	MW-2-1/94	Water
57589- 3	MW-3-1/94	Water
57589- 4	MW-4-1/94	Water
57589- 5	MW-5-1/94	Water
57589- 6	MW-6-1/94 <i>deep</i>	Water

### RESULTS OF ANALYSIS

Laboratory Number:	57589- 1	57589- 2	57589- 3	57589- 4	57589- 5
--------------------	----------	----------	----------	----------	----------

Diesel:	ND<50	ND<50	ND<50	850	ND<50
Concentration:	ug/L	ug/L	ug/L	ug/L	ug/L

Laboratory Number:	57589- 6
--------------------	----------

Diesel:	450 ,
Concentration:	ug/L



# Superior Precision Analytical, Inc.

1555 Burke, Unit I ▪ San Francisco, California 94124 ▪ (415) 647-2081 / fax (415) 821-7123

## TOTAL PETROLEUM HYDROCARBONS AS DIESEL Quality Assurance and Control Data - Water

Laboratory Number 57589

Compound	Method Blank (ug/L)	RL (ug/L)	Spike Recovery (%)	Limits (%)	RPD (%)
Diesel:	ND<50	50	140/133	33-179	5%

### Definitions:

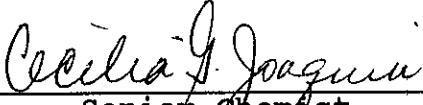
ND = Not Detected

RPD = Relative Percent Difference

RL = Reporting Limit

ug/L = Parts per billion (ppb)

QC File No. 57589

  
Senior Chemist  
Account Manager





# Superior Precision Analytical, Inc.

1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

GEO/RESOURCE CONSULTANTS, INC.  
Attn: GARY FLOYD

Project 1708-004-00  
Reported 03-February-1994

ANALYSIS FOR GASOLINE, BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES  
by EPA SW-846 Methods 5030/8015M/8020.

## Chronology

Laboratory Number 57589

Identification	Sampled	Received	Extracted	Analyzed	Run #	Lab #
MW-1-1/94	01/26/94	01/27/94	01/31/94	01/31/94		1
MW-2-1/94	01/26/94	01/27/94	01/31/94	01/31/94		2
MW-3-1/94	01/26/94	01/27/94	02/01/94	02/01/94		3
MW-4-1/94	01/26/94	01/27/94	02/01/94	02/01/94		4
MW-5-1/94	01/26/94	01/27/94	02/02/94	02/02/94		5
MW-6-1/94	01/26/94	01/27/94	02/01/94	02/01/94		6



# Superior Precision Analytical, Inc.

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GEO/RESOURCE CONSULTANTS, INC.  
Attn: GARY FLOYD

Project 1708-004-00  
Reported 03-February-1994

## ANALYSIS FOR GASOLINE, BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES

Laboratory Number	Sample Identification	Matrix
57589- 1	MW-1-1/94	Water
57589- 2	MW-2-1/94	Water
57589- 3	MW-3-1/94	Water
57589- 4	MW-4-1/94	Water
57589- 5	MW-5-1/94	Water
57589- 6	MW-6-1/94	Water

### RESULTS OF ANALYSIS

Laboratory Number:	57589- 1	57589- 2	57589- 3	57589- 4	57589- 5
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Gasoline:	ND<50	ND<50	ND<50	ND<50	ND<50
Benzene:	ND<0.5	ND<0.5	ND<0.5	0.7	ND<0.5
Toluene:	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Ethyl Benzene:	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Total Xylenes:	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5

Concentration:	ug/L	ug/L	ug/L	ug/L	ug/L
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-- Surrogate % Recoveries -- Trifluorotoluene (SS): 99	96	100	98	103
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Laboratory Number:	57589- 6
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Gasoline:	ND<50
Benzene:	0.8
Toluene:	ND<0.5
Ethyl Benzene:	ND<0.5
Total Xylenes:	ND<0.5

Concentration:	ug/L
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-- Surrogate % Recoveries -- Trifluorotoluene (SS): 98
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# Superior Precision Analytical, Inc.

1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

## ANALYSIS FOR GASOLINE, BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES Quality Assurance and Control Data - Water

Laboratory Number 57589

Compound	Method Blank (ug/L)	RL (ug/L)	Spike Recovery (%)	Limits (%)	RPD (%)
Gasoline:	ND<50	50	101/99	75-125	2%
Benzene:	ND<0.5	0.5	94/94	75-125	0%
Toluene:	ND<0.5	0.5	98/98	75-125	0%
Ethyl Benzene:	ND<0.5	0.5	105/106	75-125	1%
Total Xylenes:	ND<0.5	0.5	103/104	75-125	1%

### Definitions:

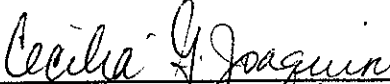
ND = Not Detected

RPD = Relative Percent Difference

RL = Reporting Limit

ug/L = Parts per billion (ppb)

QC File No. 57589

  
Senior Chemist  
Account Manager



**Geo/Resource Consultants, Inc.**  
 GEOLOGISTS / ENGINEERS / ENVIRONMENTAL SCIENTISTS  
 804 HARRISON STREET, SAN FRANCISCO, CALIFORNIA 94107  
 505 FAX

57589

**CHAIN OF CUSTODY RECORD**

PROJECT NO. 1708-004-00  
 DATE 1-26-94 PAGE 1 OF 1

PROJECT NAME USPS OAKLAND GATE WASTE  
 Client \_\_\_\_\_  
 Address \_\_\_\_\_  
 ANALYSIS REQUESTED \_\_\_\_\_  
 SAMPLERS (SIGNATURE) [Signature]  
 LABORATORY SUPERIOR PROFESSIONAL ANALYTICAL, INC.

SAMPLE NO.	DATE	TIME	LOCATION	EPA NO.					S. DAY / T. A. T.	NO. OF CONTAINERS	COMMENTS / CONTAINER TYPE
				401	402	403	404	405			
MW-1-1/94	1/26/94	1305	MW-1	✓	✓				✓	4	11. Glass Amber, 3 VOA
MW-2-1/94	"	1313	MW-2	✓	✓				✓	4	"
MW-3-1/94	"	1323	MW-3	✓	✓				✓	4	"
MW-4-1/94	"	1335	MW-4	✓	✓				✓	4	"
MW-5-1/94	"	1250	MW-5	✓	✓				✓	4	"
MW-6-1/94	"	1345	MW-6	✓	✓				✓	4	"

Please Initial: [Signature]  
 Samples Stored in ice. ✓  
 Appropriate containers. ✓  
 Samples preserved. NOT INDICATED  
 VOA's without headspace. ✓

**1 RELINQUISHED BY:**  
 Signature [Signature]  
 Printed Name CAROL K. FURD  
 Company Geo/Resource Consultants  
**2 RECEIVED BY:**  
 Signature [Signature]  
 Printed Name M. L. [Signature]  
 Company \_\_\_\_\_

**3 RELINQUISHED BY:**  
 Signature [Signature]  
 Printed Name MOHINDER SINGH  
 Company AERO  
**4 RECEIVED BY:**  
 Signature \_\_\_\_\_  
 Printed Name \_\_\_\_\_  
 Company \_\_\_\_\_

**5 RELINQUISHED BY:**  
 Signature \_\_\_\_\_  
 Printed Name \_\_\_\_\_  
 Company \_\_\_\_\_  
**6 RECEIVED BY (LAB):**  
 Signature [Signature]  
 Printed Name R. ROMERO  
 Company Exxon SF

DATE 2/1 TOTAL NUMBER OF CONTAINERS \_\_\_\_\_  
 SAMPLE CONDITIONS  
 SEALED YES/NO \_\_\_\_\_  
 RECEIVED ON ICE YES/NO \_\_\_\_\_  
 SPECIAL SHIPMENT/HANDLING OR STORAGE REQUIREMENTS:  
Please Fax Results to CAROL FURD @ GRC (415) 775-2359  
 SHIPPING TICKET NO.: \_\_\_\_\_

SAMPLER-GOLD  
TRANSPORTER-PINK  
LAB-YELLOW  
GRC-WHITE AND GREEN