



PORT OF OAKLAND

ENVIRONMENTAL
PROTECTION

99 JUL -1 PM 2:10

June 29, 1999

Mr. Barney Chan
Alameda County Health Care Services Agency
Environmental Protection Division
1131 Harbor Bay Parkway, #250
Alameda, CA 94502-6577

**SUBJECT: UST Closure Report for Port of Oakland Tanks MF08/09/10
South Field, Metropolitan Oakland International Airport, Oakland, CA 94621**

Dear Mr. Chan:

Enclosed is a copy of the June 29, 1999 "Underground Storage Tank Closure Report Port Tanks MF-08, MF09, and MF10, Metropolitan Oakland International Airport, South Airport Self-Fueling Facility, Taxiway 4, Oakland, California". Oversight of the tank removal activities was performed by Harding Lawson Associates, one of the "as needed" consultants retained by the Port of Oakland (Port).

These former tanks (MF-08, MF-09 and MF10) have been closed in accordance with California Code of Regulations, Title 23, Division 3, Chapter 16, Underground Storage Tank Regulations, Section 2670(c), 2710.

In addition, I have enclosed a completed Unauthorized Release (Leak) Report, as requested in your June 15, 1999 letter.

Should you have any questions or need additional information, please contact me at 272-1118. Thank you for your on-going assistance and support on this project.

Sincerely,

Dale H. Klettke, CHMM
Associate Environmental Scientist
Environmental Health & Safety Compliance

enclosures

c: (w/o encl.): Neil Werner - EH & SC
c:\msoffice\winword\206006bc ust

**Underground Storage Tank Closure Report
Port Tanks MF08, MF09, and MF10
Metropolitan Oakland International Airport
South Airport Self-Fueling Facility, Taxiway 4
Oakland, California**


#6409


6/29/99

Prepared for

Port of Oakland
530 Water Street, 2nd Floor
Oakland, California 94607

HLA Project No. 46381.1


James G. McCarty
Project Engineer


Stephen J. Osborne P.E. #656
Geotechnical Engineer



June 29, 1999



Harding Lawson Associates
Engineering and Environmental Services
383 Fourth Street, Third Floor
Oakland, CA 94607 — (510) 451-1001

**Underground Storage Tank Closure Report
Port Tanks MF08, MF09, and MF10
Metropolitan Oakland International Airport
South Airport Self-Fueling Facility, Taxiway 4
Oakland, California**

HLA Project No. 46381.1

Harding Lawson Associates (HLA) and MicroSearch Environmental Corporation (MicroSearch) prepared this document at the direction of the Port of Oakland for the sole use of Port of Oakland and the Oakland Fire Services Agency, the only intended beneficiaries of this work. No other party should rely on the information contained herein without the prior written consent of the Port of Oakland and HLA. This report and the interpretations, conclusions, and recommendations contained within are based in part on information presented in other documents that are cited in the text and listed in the references. Therefore, this report is subject to the limitations and qualifications presented in the referenced documents.

CONTENTS

1.0	INTRODUCTION.....	1
1.1	Background	1
2.0	FIELD ACTIVITIES.....	2
2.1	Groundwater Removal	3
2.2	Soil Management and Excavation Backfill.....	3
3.0	ANALYTICAL RESULTS AND DISCUSSION	4
3.1	Gasoline Excavation.....	4
3.1.1	Soil Samples.....	4
3.1.2	Groundwater Samples.....	4
3.2	Diesel Excavation	4
3.2.1	Soil Samples.....	4
3.2.2	Groundwater Samples.....	4
4.0	PRELIMINARY COST EVALUATION.....	5
	Excavation and Disposal.....	5
	ORC Injection.....	5
5.0	CONCLUSIONS	7
6.0	RECOMMENDATIONS	8

TABLES

- 1 Soil Sample Analytical Results
- 2 Groundwater Sample Analytical Results

PLATES

- 1 Site Location Map
- 2 Site Plan

APPENDIXES

- A Permits
- B UST Permit to Operate
- C Certificates of Disposal and Hazardous Waste Manifests
- D Laboratory Reports and Chain-of-Custody Form
- E Photographs

DISTRIBUTION

1.0 INTRODUCTION

This report describes the removal of a 3,000-gallon and two 1,000-gallon underground storage tanks (USTs) at the Metropolitan Oakland International Airport South Airport Self-Fueling Facility, Taxiway 4. The location of the site is shown on Plate 1. Tank removal activities were conducted between April 21, and April 26, 1999. Enviroclean, Inc. of Antioch, California was contracted by the Port of Oakland to remove the UST system and to collect soil and groundwater samples for chemical analysis. The Port of Oakland (Port) retained Harding Lawson Associates (HLA) and MicroSearch Environmental Corporation (MicroSearch) to document tank removal activities and prepare this UST Closure report.

The USTs were removed according to the permit requirements of the City of Oakland, Fire Prevention Bureau. A copy of the City of Oakland Underground Storage Tank Removal Permit and Tank Closure Plan is presented in Appendix A.

1.1 Background

The three USTs were located adjacent to Taxiway 4 and use to fuel Port and tenant owned airport service vehicles. The 3,000-gallon UST (MF08) contained unleaded gasoline and the 1,000-gallon USTs (MF09 and MF10) stored diesel fuel. Available records do not indicate the installation date for the three tanks. The USTs were constructed of single-wall steel and coated with tar. The fuel delivery system uses suction to convey fuel from the USTs to the fuel pumps. According to the Port, Clayton Environmental Consultants of Pleasanton, California performed tank integrity tests on the three USTs in February 1996 and the systems past pressure testing. In addition to periodic pressure tests, a Port employee measured the liquid levels in the tanks each day and the Port forwarded the measurements to USTMAN Industries of

Lakewood, Colorado for Statistical Inventory Reconciliation.

A copy of the permit to operate these three USTs from Alameda County is included in Appendix B.

2.0 FIELD ACTIVITIES

On April 21, 1999, Enviroclean removed the asphalt pavement, concrete saddles, and fill material overlying the USTs and stockpiled them adjacent to the excavations. The tops of the USTs were uncovered at a depth of approximately 3 feet below ground surface (bgs). The 1,000-gallon diesel USTs were located together in a communal tank cavity, and the 5,000-gallon gasoline UST was situated approximately 45 feet to the north. The locations of the tanks are shown on Plate 2.

An estimated 411 gallons of residual liquids were pumped out of the USTs and transported by American Valley Waste Oil to Industrial Service Oil, Co., Inc. for disposal. Copies of the Uniform Hazardous Waste Manifests are included in Appendix C.

On April 22, 1999, Enviroclean collected two soil samples (designated 101 and 102) from the stockpiled soil and two groundwater samples (designated Gasoline Pit and Diesel Pit) from each excavation. Mobile Chem Labs, Inc. of Lafayette, California analyzed these samples on site. Soil samples were analyzed for lead, total petroleum hydrocarbons (TPH) as gasoline, TPH as diesel, benzene, toluene, ethyl benzene, and total xylenes (BTEX), and methyl tert-butyl ether (MTBE). The groundwater samples were analyzed for TPH as gasoline at the gasoline excavation; TPH as diesel at the diesel excavation; and BTEX and MTBE at both of the excavations. Chemical analysis results are summarized in Tables 1 and 2. Laboratory reports are included in Appendix D.

On April 26, 1999, the USTs were rendered inert with dry ice and lifted from the excavations to ground surface for observation before being loaded onto a truck for transport and destruction by Ecology Control Incorporated. HLA observed no holes in the USTs or fuel piping. Enviroclean removed the fuel piping to the limit of the excavations. Appendix E presents photographs

of the tanks and excavations taken during the USTs removal.

During these field activities, HLA observed that the exposed sidewalls of the excavation above the water table and of the soil stockpile at the UST sites consisted of fine- to medium-grained silty sand. The groundwater elevations in the excavations appeared to be influenced by tidal fluctuations; the water level in the excavations fluctuated more than a foot (3.4 to 4.6 feet bgs) during the day. Because of the proximity of the San Francisco Bay and the fluctuating groundwater levels, HLA believes that the groundwater is brackish at the site.

A thin layer of discolored soil was observed along the sidewalls of the gasoline tank excavation. Enviroclean excavated the discolored soils along the perimeter of the gasoline tank and stockpiled them on a paved area. Stained soil was apparent on the southwest sidewall of the diesel tank excavation near former tank MF09 and a layer of black material was observed on groundwater surface within the excavation, probably resulting from dissolution of the tar covering on the UST due to contact with petroleum hydrocarbons.

Under contract to Enviroclean, Sequoia Environmental Consulting Services (Sequoia) of San Leandro, California performed the sampling activities during this phase of work. Sequoia collected four soil samples at the gasoline UST's (MF08) excavation sidewalls as shown on Plate 2. Sequoia also collected two soil samples from the excavation sidewall adjacent to each end of diesel USTs. All soil samples were at depths of approximately 3.5 feet bgs, which corresponds to approximately 1 foot above the water line in the excavations. Soil samples were collected from a backhoe bucket, placed in glass containers, and sealed with a threaded lids. Soil samples were labeled and stored in a cooled container prior to transport to a California State-

certified laboratory, McCampbell Analytical, Inc. of Pacheco, California, under chain-of-custody protocol. Representatives from Oakland Fire Service Agency (OFSA), the Port, and HLA observed the sample collection.

The excavation soil samples were analyzed for TPH as gasoline, TPH as diesel (soil samples subjected to silica gel cleanup), BTEX, and MTBE.

2.1 Groundwater Removal

On April 28th and 29th, Enviroclean pumped groundwater from the excavations, and American Valley Waste Oil transported the fluid to Industrial Service Oil Co. Inc. for disposal. A total of 4,040 gallons of groundwater was removed and disposed during this phase of work.

On April 30, 1999, Sequoia collected a grab sample from the groundwater in each excavation. Groundwater samples were placed in laboratory provided containers, labeled and stored in a cooled container prior to transport to a California State-certified laboratory, Sequoia Analytical Laboratory of Walnut Creek, California, under chain-of-custody protocol. Sequoia Analytical analyzed the groundwater samples for TPH as gasoline, TPH as diesel, BTEX, and MTBE.

2.2 Soil Management and Excavation Backfill

Excavated soil was stockpiled on-site and sampled as described above. The stockpiled soil was found to contain TPH as diesel concentrations in excess of 100 mg/kg and was not used to backfill the excavations. Mid-Coast Transportation of Alamo, California transported 66.7 tons of soil to Altamont Landfill in Livermore. The asphalt and concrete rubble were transported to the Dumbarton Quarry for disposal. The weigh tickets from Waste Management, owners and operators of the Altamont Landfill and receipts from the Dumbarton Quarry are included in Appendix C. Clean pea gravel was imported to the site on April 30, 1999 and used to backfill the

excavations from bottom depth to approximately 3 feet bgs. Prior to placing the pea gravel the excavations were lined with geotextile fabric. Aggregate base was used to complete the backfilling from 3 feet bgs to the surrounding ground surface elevation.

3.0 ANALYTICAL RESULTS AND DISCUSSION

3.1 Gasoline Excavation

3.1.1 Soil Samples

Chemical analyses results indicate that TPH as gasoline, TPH as diesel, BTEX, and MTBE were not detected above the laboratory reporting limits in the two soil samples, T1-A and T1-B. These soil samples came from the south and east sidewalls of the gasoline tank (MF08) excavation. The analytical results for sidewall soil samples T1-C and T1-D indicate the presence of TPH as gasoline (4,300 and 4,100 mg/kg, respectively); TPH as diesel (3,200 and 6,200 mg/kg, respectively); and low levels of benzene, toluene, and ethylbenzene. The laboratory reported that the TPH concentrations extended from the oil range to the gasoline range with no recognizable pattern when compared to standards, possibly indicating heavily weathered gasoline and residuals amounts of motor oil. Total xylenes were reported at concentrations of 540 and 420 mg/kg, respectively. MTBE was detected at 5.5 mg/kg in sample T1-D but not detected above laboratory reporting limits in the remaining soil samples collected from the excavation. The results of soil sampling are shown on Plate 2 and Table 1.

3.1.2 Groundwater Samples

Groundwater samples collected from the gasoline tank pit suggest the presence of TPH as gasoline with reported concentrations as high as 380 milligrams per liter (mg/L) and TPH as diesel at concentrations as high as 17 mg/L. Benzene was reported in groundwater samples as high as 1,300 micrograms per liter ($\mu\text{g/L}$), toluene at 11,000 $\mu\text{g/L}$, ethylbenzene at 37,000 $\mu\text{g/L}$, total xylenes at 8,900 $\mu\text{g/L}$ and MTBE 28,000 $\mu\text{g/L}$. TPH and BTEX concentrations generally decreased between the first and second sampling, after groundwater had been purged from the excavation. The results of groundwater sampling are presented in Table 2.

3.2 Diesel Excavation

3.2.1 Soil Samples

Soil samples T2-A and T2-B, collected adjacent to MF09, were found to contain TPH as diesel (39,000 and 28,000 mg/kg, respectively), TPH as gasoline (3,000 and 680 mg/kg, respectively), and low concentrations of toluene, ethylbenzene, and xylenes. MTBE and benzene were not detected above laboratory reporting limits in samples T2-A and T2-B. The laboratory reported that the TPH concentration extended from the oil range to the gasoline range, possibly indicating weathered diesel.

The only petroleum hydrocarbons detected at MF10 were TPH as diesel in sample T3-A at a concentration of 3.9 mg/kg. All other sample analyses from the sidewalls adjacent to MF10 indicated that the analytes were not present at their respective reporting limits. The results of soil sampling are shown on Plate 2 and Table 1.

3.2.2 Groundwater Samples

Groundwater samples collected from the diesel tank excavation indicate the presence of TPH as diesel and TPH as gasoline with concentrations as high as 51 and 120 mg/L, respectively. Toluene, ethylbenzene and total xylenes were only detected at low concentrations. Benzene and MTBE were not detected above laboratory reporting limit. TPH concentrations generally increased between the first and second sampling, after groundwater had been purged from the excavation. The results of groundwater sampling are presented in Table 2.

4.0 PRELIMINARY COST EVALUATION

In order to address the impact of the residual petroleum hydrocarbons on the soil and groundwater, HLA conducted a preliminary cost evaluation that compared the costs of excavation and disposal with insitu bio-remediation enhanced with Oxygen Releasing Compound (ORC). The cost analyses is based in unit costs assuming that petroleum hydrocarbons have impacted a 600 square foot area adjacent to the excavations between 3 and 4 feet bgs at a

concentration of 250 mg/kg TPH. Both alternatives for remediation involve aspects that are common to both, such as work plan preparation, monitoring well installation and monitoring, etc. For the purpose of this evaluation we have not considered items that are common to both alternatives, only those items that require different expenditures. These different items are as follows:

Show me the printout

Excavation and Disposal

Drill at 8 locations to determine the lateral extent of impact	\$3,000
• Chemical analysis for TPH, BTEX, and MIBB on 8 soil and groundwater samples @ \$200/sample	6,200
• Excavate and load of 100 cubic yards (CY)	1,600
• Collect/analyze clearance samples (8 soil + 2 groundwater) * \$200/sample * 2 (24-hr turnaround)	4,000
• Import, backfill, and compaction (\$15/CY * 100 CY + \$1,000 contractor)	2,500
• Haul and dispose of soil at Altamont Landfill \$350/trip * 6 trips + \$30/CY * 100 CY	5,100
• Remove and dispose of 5,000 gallons of groundwater at an oil-water recycler	5,000
Preliminary cost estimate – Excavation and Disposal	\$20,400

→ These Hts are not necessarily this high only depth areas of soil are

ORC Injection

Enviro-core direct-push rig at 8 locations	\$ 3,400
500 pounds of ORC (including tax & shipping)	6,500
Monitor groundwater for dissolved oxygen content to evaluate biological activity 6 monthly events * \$400/event	2,400
Preliminary cost estimate – ORC Application	\$12,300

*6200
- 6200
14,200*

don't need 8 borings, 3 borings may be converted into wells. may not need 8 borings, possible to determine extent w/ the 3 wells.

*6200
18,500*

- The cost analysis indicates that ORC application is more cost effective than excavation and disposal to remediate the same volume of soil. As noted above, these costs do not include items common to both alternatives, such as:
 - Work plan preparation
 - Utility clearance
 - Oversight during the remedial actions
 - Installation and development of three groundwater monitoring wells
 - Quarterly monitoring and analyses of three groundwater monitoring wells for a one year period
 - Consultation with the port and the regulatory agencies
 - Preparation of a Risk Based Corrective Action (RBCA) report
 - Preparation of a closure report

5.0 CONCLUSIONS

HLA presents the following conclusions with respect to the UST removal activities based on the results of chemical analyses on soil and groundwater samples at MF 08, 09, and 10:

- A release of petroleum hydrocarbons appears to have occurred during operation of the unleaded gasoline tank MF08. Soil and groundwater in the immediate vicinity have been affected by a release of TPH and BTEX.
- A release of petroleum hydrocarbons appears to have occurred during operation of diesel tank MF09. Soil and groundwater in the immediate vicinity have been affected by a release of petroleum hydrocarbons.
- Soil samples collected from the excavation sidewalls adjacent to tank MF10 indicate that soil has not been significantly impacted by the operation of this tank system.
- The water table in the tank excavations fluctuated more than one-foot during tank removal activities. Water was observed as high as 3.4 feet bgs. A thin layer of unsaturated soil and fill material, roughly 3 feet thick is present in the subsurface near the USTs. The high water table probably limits the vertical impact of the petroleum hydrocarbons.
- Water in the area is expected to be brackish due to the proximity to the San Francisco Bay and the fluctuations noted during UST removal. We conclude that the groundwater is not usable as a source of drinking water. As such, drinking water standards are not applicable as cleanup goals for groundwater at the site.
- Cost evaluation analysis indicates that ORC is a more cost effective remediation approach than excavation and disposal.

*ecological
standards
more appropriate*

6.0 RECOMMENDATIONS

HLA recommends that the Port proceed to remediate the elevated concentrations of TPH in soil and groundwater in the vicinity of tanks MF08 and MF09. On the basis of the preliminary cost evaluation, HLA considers that the injection of ORC will be more cost effective than excavation and off site disposal of impacted materials. HLA therefore recommends that the Port consider the injection of ORC at four locations around each of the UST excavations. Additional remedial actions will probably be required including the preparation of a RBCA report, groundwater monitoring, and closure reporting. Risk-based remediation goals for TPH have already been established for the San Francisco International Airport (SFO) and with regulatory consent, may be applied to this site due to similarities in:

1. Current land use
2. Contaminants of concern
3. Potential ecological receptors
4. Hydrogeologic and geographic setting

If necessary, risk-based groundwater cleanup goals may also be developed for the site using the ASTM Emergency Guide for RBCA Applied to Petroleum Release Sites.

Elevated concentrations of TPH, BTEX, and MTBE in shallow groundwater may be an issue of potential concern. Shallow groundwater samples should be collected from three groundwater wells around the perimeter of the former location of tanks MF08 and MF09 and analyzed for TPH, BTEX, and MTBE to evaluate local groundwater quality. Additionally, groundwater should be sampled for indicators of intrinsic bio-remediation including; dissolved oxygen, oxidation-reduction potential; pH; conductivity; temperature; alkalinity; nitrate; sulfate; total iron, and ferrous iron.

The Port has authorized HLA to prepare a work plan for the injection of ORC. This work plan will include the installation and monitoring of at least three groundwater monitoring wells.

TABLES

**Results of Analyses of Soil and Groundwater Samples
UST Closure Report MF- 08, MF-09, and MF-10
Oakland International Airport
Oakland, California**

Table 1. Soil Samples Analytical Results

Sample Location	Sample Depth	Date Sampled	TPH gas (mg/kg)	TPH diesel (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	Lead (mg/kg)
T1-A	3.5'	04/26/99	ND<1.0	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.05	NA
T1-B	3.5'	04/26/99	ND<1.0	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.05	NA
T1-C	3.5'	04/26/99	4,300	3,200	1.4	87	65	540	ND<3	NA
T1-D	3.5'	04/26/99	4,100	6,200	1.4	48	45	420	5.5	NA
T2-A	3.5'	04/26/99	3,000	39,000	ND<0.05	1.2	3.4	38	ND<1	NA
T2-B	3.5'	04/26/99	680	23,000	ND<0.1	1.5	2.3	20	ND<2	NA
T3-A	3.5'	04/26/99	ND<1.0	3.9	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.05	NA
T3-B	3.5'	04/26/99	ND<1.0	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.05	NA
101	SP	04/22/99	41	110	ND<0.005	0.039	0.410	0.036	ND<0.005	0.10
102	SP	04/22/99	17	560	ND<0.005	0.025	ND<0.87	ND<0.005	ND<0.005	10
PRGs			--	--	1.4	5,200	2,300	210a	--	1,000

Table 2. Groundwater Samples Analytical Results

Sample Location	Date Sampled	TPH gas (mg/l)	TPH diesel (mg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	MTBE (µg/l)
Gas Pit	04/22/99	380	NA	1,500	11,000	37,000	600	28,000
Diesel Pit	04/22/99	NA	0.64	ND<0.5	5.4	97	1.9	ND<0.5
Gas Pit	04/30/99	42	1.7	620	3,100	270	8,900	15,000
Diesel Pit	04/30/99	120	51	ND<500	ND<500	ND<500	ND<500	ND<2,500
MCL		--	--	1.0	150	700	1,750	--

-- = Not available

mg/l - milligrams per kg

mg/l - milligrams per liter

µg/l - micrograms per liter

SP - stockpile samples

NA = Not analyzed for this analyte

TPH gas - total petroleum hydrocarbons as gasoline

TPH diesel - total petroleum hydrocarbons as diesel

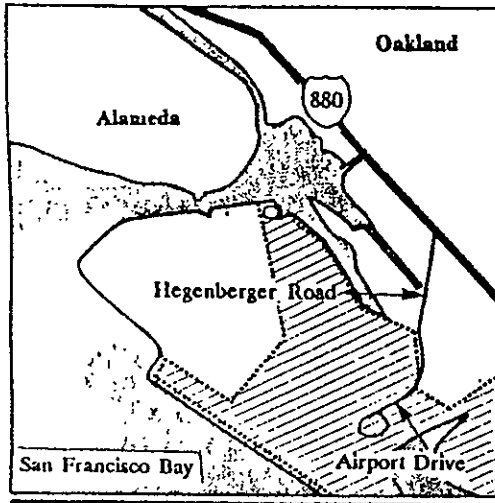
TPH motor oil - total petroleum hydrocarbons as motor oil

MTBE - methyl t-butyl ether

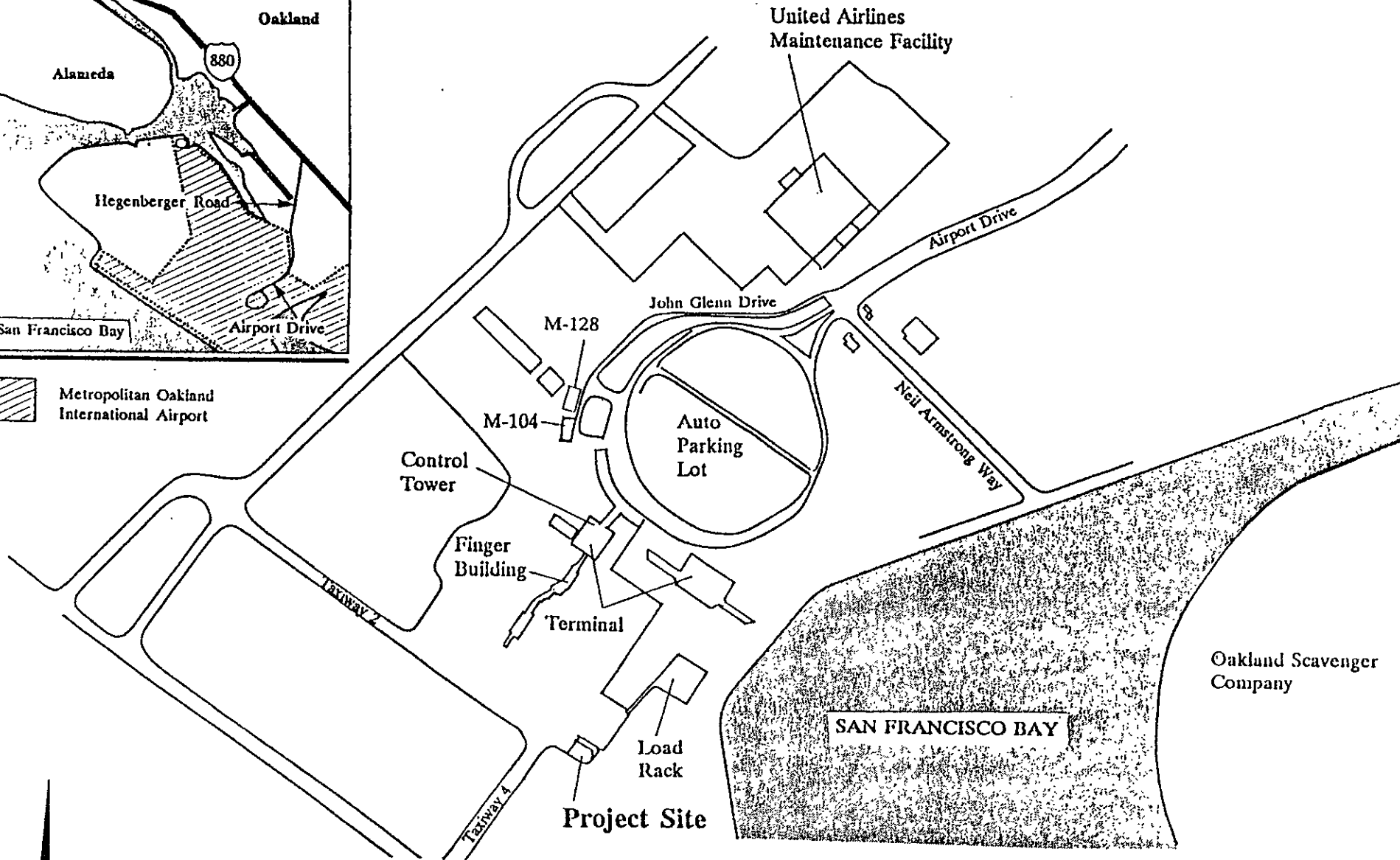
PRG - preliminary remediation goal for Industrial Soil as published by the Environment Protection Agency, Region 9, 1998

MCL - maximum concentration limit as published by the California Water Quality Control Board, 1995

a - value use is for m-xylene which is the most conservative



 Metropolitan Oakland International Airport



Harding Lawson Associates
Engineering and
Environmental Services

Site Location Map
UST Closure Report, MF-08, MF-09, and MF-10
Oakland International Airport
Oakland, California

PLATE

1

DRAWN
jgm

PROJECT NUMBER
46381.1

APPROVED

DATE
06/18

REVISED DATE

TPH gas	2.00 mg/kg
TPH diesel	2.00 mg/kg
Benzene	1.4 mg/kg
Toluene	87 mg/kg
Ethylbenzene	65 mg/kg
Total Xylenes	540 mg/kg
MTBE	<3 mg/kg

TPH gas	<1.0 mg/kg
TPH diesel	<1.0 mg/kg
Benzene	<0.005 mg/kg
Toluene	<0.005 mg/kg
Ethylbenzene	<0.005 mg/kg
Total Xylenes	<0.005 mg/kg
MTBE	<0.05 mg/kg

TPH gas	<1.0 mg/kg
TPH diesel	<1.0 mg/kg
Benzene	<0.005 mg/kg
Toluene	<0.005 mg/kg
Ethylbenzene	<0.005 mg/kg
Total Xylenes	<0.005 mg/kg
MTBE	<0.05 mg/kg

TPH gas	2.00 mg/kg
TPH diesel	2.00 mg/kg
Benzene	1.4 mg/kg
Toluene	48 mg/kg
Ethylbenzene	45 mg/kg
Total Xylenes	420 mg/kg
MTBE	5.5 mg/kg

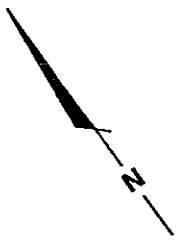
TPH gas	<1.0 mg/kg
TPH diesel	3.9 mg/kg
Benzene	<0.005 mg/kg
Toluene	<0.005 mg/kg
Ethylbenzene	<0.005 mg/kg
Total Xylenes	<0.005 mg/kg
MTBE	<0.05 mg/kg

TPH gas	3.9 mg/kg
TPH diesel	39.000 mg/kg
Benzene	<0.05 mg/kg
Toluene	1.2 mg/kg
Ethylbenzene	3.4 mg/kg
Total Xylenes	38 mg/kg
MTBE	<1 mg/kg

TPH gas	<1.0 mg/kg
TPH diesel	<1.0 mg/kg
Benzene	<0.005 mg/kg
Toluene	<0.005 mg/kg
Ethylbenzene	<0.005 mg/kg
Total Xylenes	<0.005 mg/kg
MTBE	<0.05 mg/kg

TPH gas	680 mg/kg
Benzene	<0.1 mg/kg
Toluene	1.5 mg/kg
Ethylbenzene	2.3 mg/kg
Total Xylenes	20 mg/kg
MTBE	<2 mg/kg

LEGEND
Approximate Scale and Locations
⊕ Sample Location



Harding Lawson Associates
Engineering and
Environmental Services

Site Map
UST Closure Report, MF-08, MF-09, and MF-10
Oakland International Airport
Oakland, California

PLATE
2

DRAWN
jgm

PROJECT NUMBER
46381.1

APPROVED

DATE
06/18

REVISED DATE

Will need to run points due to Ed 3,

APPENDIX A

PERMITS

**City Of Oakland
FIRE PREVENTION
BUREAU**



250 Frank Ogawa Plaza, Ste. 3341
Oakland California 94612-2032.
510-238-3851

*Permit To Excavate And Install, Repair,
Or Remove Inflammable Liquid Tanks*

Oakland, California January 15, 1999

Tank Permit Number: 6-99

Permission Is Hereby Granted To:

Remove gasoline

Tank And Excavate Commencing: Feet Inside: property Line.

On The:

Site Address: Taxi-Way U-South Field

Present Storage:

Owner: Port of Oakland

Address: 530 Water St., 94607

Phone:

Applicant: Enviroclean, Inc.

Address: 2820 E. 18th St., Antioch 94509

Phone: (925) 779-9501

Dimensions Of Street (sidewalk) Surface To Be Disturbed : X No. Of Tanks 3 Capacity See Below Gallons, Each

Remarks Remove (2) gas tanks @ 1000 and (1) gas tank @ 5000

This Permit Is Granted In Accordance With Existing City Ordinances. Owner Hereby Agrees To Remove Tanks On Discontinuance Of Use Or When Notified By The City Authorities When Installing, Removing Or Repairing Tanks, No Open Flame To Be On Or Near Premises.

CERTIFICATE OF TANK AND EQUIPMENT INSPECTION

Type Of Inspection:

Inspected And Passed On: _____

By: _____

UST/AST Installations/modifications:

Pressure Test: Inspected By: _____ Date: _____

Primary Piping Test: Inspected By: _____ Date: _____

Secondary Containment & Sump Testing:

Inspected By: _____ Date: _____

Final: Inspected By: _____ Date: _____

Approved: JERRY E. BLUEFORD
Fire Marshal

Inspection Fee Paid: \$ 740.00

Received By: S. Smith

Before Covering Tanks, Above Certification Must Be Signed When Ready For Inspection Notify Fire Prevention Bureau 238-3851

THIS PERMIT MUST BE LEFT ON THE WORK SITE AS AUTHORITY THEREFORE

City of Oakland, Fire Services Agency, Office of Emergency Services
 Hazardous Materials Program
 APPLICATION FOR UNDERGROUND TANK REMOVAL

C O N T R A C T O R S	Project Contact & Phone # ROBERT MANEGGIO (510) 577-4379			
	Facility Name METROPOLITAN OAKLAND INTL AIRPORT		Phone# (510) 272-1532	
I N S T A L L A T I O N	Address OAKLAND			
	Cross Street			
P L A N	Owner/Operator PORT OF OAKLAND		Phone # 510-272-1532	
	Contractor Name ENVIROCLEAN, INC		Phone # 925-779-9501	
R E M O V E R S	Contractor Address 2820 E. 18th ST FREMONT, CA	CA License # 707060	Class "A" HAZ.	
	Hazardous Waste Certified: (Qualifying license category HAZ.) Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Workers Comp#	
C I T Y	City of Oakland Business Tax License # 1529692		Permit #	
	Does this site have a leaking UST (or did it have a leaking tank system?) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			
T A N K S	State Tank ID#	Tank Size	Material That Was Stored	Proposed Removal Date
	39	5,000	AVIATION FUEL	ASAP
	39	1,000	"	ASAP
	39	1,000	"	ASAP
	39			
	39			
P L A N R E V I E W E R S	<input type="checkbox"/> APPROVED <input type="checkbox"/> APPROVED WITH CONDITION(S) <input type="checkbox"/> DISAPPROVED			
	PLAN REVIEWER'S SIGNATURE		DATE OF APPROVAL	

APPLICANT MUST PERFORM ALL WORK IN ACCORDANCE WITH CITY OF OAKLAND ORDINANCES, STATE LAWS, AND RULES AND REGULATIONS OF THE CITY OF OAKLAND FIRE SERVICES AGENCY. OWNER OR LICENSED AGENT'S SIGNATURE CERTIFIES THE FOLLOWING: I CERTIFY THAT IN THE PERFORMANCE OF THE WORK FOR WHICH THIS INSTALLATION PLAN IS ISSUED, I SHALL NOT EMPLOY ANY PERSON IN SUCH A MANNER AS TO BECOME SUBJECT TO WORKER'S COMPENSATION LAWS OF CALIFORNIA. CONTRACTOR'S HIRING OR SUBCONTRACTING SIGNATURE CERTIFIES THE FOLLOWING: I CERTIFY THAT IN THE PERFORMANCE OF THE WORK FOR WHICH THIS INSTALLATION PLAN IS ISSUED, I SHALL EMPLOY PERSONS SUBJECT TO WORKER'S COMPENSATION LAWS OF CALIFORNIA.

APPLICANT'S SIGNATURE: *Dianne Smith* TITLE: V.P. OPERATIONS DATE: 12-21-98

CITY OF OAKLAND
FIRE PREVENTION BUREAU
250 Frank Ogawa Plaza, Ste. 3341
OAKLAND, CALIFORNIA 94612-2032
(510) 238-3851

COPY

APPLICATION for PERMIT to INSTALL, REMOVE or REPAIR TANKS
In the CITY OF OAKLAND

Request Submittal Date: _____

PLEASE CIRCLE APPROPRIATE ACTIONS: Application is hereby made for permit to:

(a) Remove (b) Install (c) Repair (d) Modify (e) Abandon/Close in Place **A**

(a) Gasoline (b) Fuel oil (c) Diesel (d) **3** tank(s) and excavate, commencing:

(a) four feet inside the curb line*; (b) inside the property line; (c) aboveground; (d) underground tank(s)
*inside curb line, please attach copy of sidewalk/excavation permit from PLANNING AND BUILDING

on the _____ side of _____ St./Ave. _____ feet _____ of _____ St./Ave.

Site Address: TAKIWAY U. SOUTHFIELD - OAKLAND Present storage AV FUEL

Owner: PORT OF OAKLAND Address 530 WATER ST. Phone _____

OAKLAND, CA 94607

Applicant: ENVIROCLEAN, INC Address 2820 E. 18th ST Phone 925 779-9501

ANTIOCH, CA 94509

Sidewalk surface to be disturbed X Number of Tanks 3 Capacity 2-1000 Gallons ea. 5000

Remarks _____

Signature _____

PLEASE ATTACH/SUBMIT: (All applicants must have a City Business License Permit)

- (2) Copies of Closure Plans for underground tank removal(s)
- (2) Sets of plans and (1) copy of specifications for above ground tank removal
- (2) Sets of plans and (2) sets of application packets for underground tank installation/modifications
- (2) Sets of plans for aboveground tank installation
- copy or prepare to show Planning and Building approval for aboveground tank removal and tank repair

NOTE: FOR TANK INSTALLATION PLEASE SUBMIT THIS APPLICATION FORM ALONG WITH A APPLICATION FOR PERMIT TO OPERATE, MAINTAIN OR STORE

FOR OFFICE USE ONLY

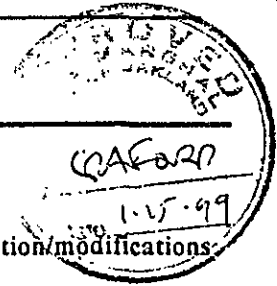
Permit No. _____ Amt. Recv'd _____ Date Issued: _____

Copies to: Electrical Inspection Ck# _____ Cash _____

Receipt# _____ Recv'd by: _____

rev:05/98

Tk



CITY OF OAKLAND
Fire Services Agency
Fire Prevention Bureau
Hazardous Materials Program
250 Frank H. Ogawa Plaza, Ste. 3341
Oakland, CA 94612-2032

UNDERGROUND TANK CLOSURE PLAN

(Complete according to instructions)

- 1) Name of Business PORT OF OAKLAND
Business Owner or Contact Person (PRINT) ROBERT MANEGGIO

- 2) Site Address METROPOLITAN OAKLAND INTERNATIONAL AIRPORT
City OAKLAND Zip _____ Phone (510) 577-4379

- 3) Mailing Address 530 WATER ST.
City OAKLAND Zip 94607 Phone (510) 577-4379

- 4) Property Owner PORT OF OAKLAND
Business Name (if applicable) _____
Address 530 WATER ST.
City, State OAKLAND, CA Zip 94607

- 5) Generator name under which tank will be manifested
PORT OF OAKLAND

- EPA ID Under which tank will be manifested CA

6) Contractor ENVIROCLEAN, INC
Address 2820 E. 18th St.
City ANTIOCH, CA 94509 Phone (925) 779-9501
License Type "A" HAZ IDS _____

Effective January 1, 1992, Business and Professional Code Section 7058.7 require contractors to also hold Hazardous Waste certification issued by the State Contractor License Board

7) Consultant (if applicable) N/A
Address _____
City, State _____ Phone _____

8) Main Contact Person for Investigation (if applicable)
Name ROBERT MANEGGIO Title PROJECT ENGINEER
Company PORT OF OAKLAND
Phone (510) 577-4379

9) Number of underground tanks being closed with this plan 3 (Confirmed with owner operator)

10) State Registered Hazardous Waste Transporters/Facilities (see instructions)

****Underground storage tanks must be handled as hazardous waste ****

a) Product/Residual Sludge/Rinsate Transporter
Name EVERGREEN EPA I.D. NO. CAD 982413262
Hauler License No. _____ License Exp. Date _____
Address 7200 CENTRAL AVE
City NEWARK State CA Zip _____

b) Product/Residual Sludge/Rinsate Disposal Site
Name _____ EPA ID No. _____
Address _____
City _____ State _____ Zip _____

c) Tank and Piping Transporter

Name ECI EPA I.D. No. CAD 982030173

c) Hauler License No. 1533 License Exp. Date 3-31-99

Address 955 PARK BLVD

City RICHMOND State CA Zip 94801

d) Tank and Piping Disposal Site

Name ECI EPA I.D. No.

Address 955 PARK BLVD

City RICHMOND State CA Zip 94801

11) Sample Collector

Name CHRIS WABUZOH

Company SECODIA ENVIRONMENTAL

Address 1111 ALADDIN AVE

City OAKLAND State CA Zip 94617

Phone (510) 614-1900

12) Laboratory

Name MC CAMPBELL ANALYTICAL

Address 110 - 2ND AVE, SOUTH #D.7

City PACIFIC State CA Zip 94553

State Certification No. 1644

13) Have tanks or pipes leaked in the past Yes No Unknown

If yes, describe _____

14) Describe methods to be used for rendering tank (s): inert:

WATER WASH, DRY ICE, VENTING

Before tanks are pumped out and inserted, all associated piping must be flushed out into the tanks. All accessible associated piping must then be removed. Inaccessible piping must be permanently plugged.

The Bay Area Air Quality Management District, 415/771-6000 must also be contacted for tank removal permit. The use of a combustible gas indicator to verify tank inertness is required. It is the contractor's responsibility to bring a working combustible gas indicator on-site to verify that the tank is inert. Note: you may be required to recalibrate the combustible gas indicator on site, to show that it is working properly.

15) Tank History and Sampling Information *** (see instructions) ***

Tank		Material to be sampled (tank contents, soil, groundwater)	Location and Depth of Samples
Capacity	Use History include date last used (estimated)		
5,000	AVIATION GAS	WATER/BAY MUD	2 FEET UNDER EACH END OF TANK
1,000	AVIATION GAS	WATER/BAY MUD	2 FEET UNDER EACH END OF TANK
1,000	AVIATION GAS	WATER/BAY MUD	

One soil sample must be collected for every 20 linear feet of piping that is removed. A ground water sample must be collected if any ground water is present in the excavation.

EXCAVATED/STOCKPILED SOIL

Stockpiled Soil volume (estimated)	Sampling Plan
100 CUBIC YARDS	1 COMPOSITE EVERY 100 CY

Stockpiled soil must be placed on beamed plastic and must be completely covered by plastic sheeting

Will the excavated soil be returned to the excavation immediately after tank removal?

- yes
 No
 unknown

If yes, explain reasoning _____

If unknown at this point in time, please be aware that excavated soil may no be returned to the excavation without prior approval from Fire Services Agency, Office of Emergency Services. This means that the contractor, consultant, or responsible party must communicate with the Hazardous Materials Inspector IN ADVANCE of backfilling operations.

16. Chemical methods and associated detection limits to be used for analyzing samples:

The Tri-Regional Board recommended minimum verification analyses and practical quantitation reporting limits should be followed.
See attached Table 2.

17. Submit Site Health and Safety Plan (see Instructions)

Contaminant Sought	EPA or Other Sample Preparation Method Number	EPA or Other Analysis Method Number	Method Detection Limit
TPH - G	GCFID 3555 8260 3510	GCFID 5030/8020	1.0 MPG 50 MG/L
B+X+E MTBE	5030/8020		
TPH - D B+X+E MTBE	GCFID 8260	GCFID 3550/3510	1.0 MPG 50 UG/L

18. Submit Workers Compensation Certificate copy

Name of Insurer CALIFORNIA COASTAL INSURANCE

19. Submit Plot Plan *****(Be Instructions)*****

20. Enclose Permit fee (See Instructions)

21. Report any leaks or contamination to this office within 5 days of discovery.

The written report shall be made on an Underground Storage Tank Unauthorized Leak/Contamination Site Report, (ULR) form.

22. Submit a closure report to this office within 60 days of the tank removal. The report must contain all information listed in item 22 of the instructions.

23. Submit State (Underground storage Tank Permit Application) Forms A and B (one B form for each UST to be removed) (mark box 8 for tank removed in the upper right hand corner)

I declare that to, the best of my knowledge and belief that the statements and information provided above are correct and true.

I understand that information, in addition to that proved above, may be needed in order to obtain approval from the Hazardous Materials Division and that no work is to begin on this project until this plan is approved.

I understand that any changes in design, materials or equipment will void this plan if prior approval is not obtained.

I understand that all work performed during this project will be done in compliance with all applicable OSHA. (Occupational Safety and health Administration) requirements concerning; personnel health and safety. I understand that site and worker safety are solely the responsibility of the property owner or his age and that this responsibility is not shared nor assumed by the City of Oakland.

Once I have received my stamped, accepted closure plan, I will contact the project Hazardous Materials Inspector at least three working days in advance of site-work, to schedule the required inspections.

CONTRACTOR INFORMATION

Name of Business ENVIROCLEAN, INC

Name of Individual DIANE SUMMERS

Signature Diane Summers Date 12-21-98

PROPERTY OWNER OR MOST RECENT TANK OPERATOR (Circle one)

Name of Business PORT OF OAKLAND

Name of Individual _____

Signature _____ Date 12-21-98

General Instructions

- Three (3) copies of this plan plus attachments and permit must be submitted to this Department.
- Any cutting into tanks requires Fire Services Agency approval.
- One complete copy of your approved plan must be at the construction site at all times; a copy of your approved plan must also be sent to the landowner.
- State of California Permit Application Forms A and B are to submit to this office One Form A per site, one Form B for each removed tank.

Line Item Specific Instructions

2. SITE ADDRESS

Address at which closure is taking place.

5. EPA I.D. NO. - under which the tanks will be manifested

EPA I.D. numbers may be obtained from the State Department of Toxic Substances Control, 916/324-1781

6. CONTRACTOR

Prime contractor for the project.

10. STATE REGISTERED HAZARDOUS WASTE TRANSPORTERS/FACILITIES

- a) All residual liquids and sludges are to be removed from tanks before tanks are inerted.
- c) Tanks must be hauled as hazardous waste.
- d) This is the place where tanks will be taken for cleaning.

15) TANK HISTORY AND SAMPLING INFORMATION

Use History - This information is essential and must be accurate. Include tank installation date, products stored in the tank, and the date when the tank was last used.

Material to be sampled - e.g. water, oil, sludge, soil, etc.

Location and depth of samples - e.g. beneath the tank a maximum of two feet below the native soil/backfill interface, side wall at the trig) water mark, etc.

16) CHEMICAL METHODS AND ASSOCIATED DETECTION LIMITS

See attached Table 2.

17) SITE HEALTH AND SAFETY PLAN

A site specific Health and Safety plan must be submitted. We advocate the site health and safety plan include the following items, at a minimum:

- a) The name and responsibilities of the site health and safety officer.
- b) An outline of briefings to be held before work each day to appraise employees of site health and safety hazards;

- c) Identification of health and safety hazards of each work task. Include potential fire, explosion, physical, and chemical hazards;

SITE HEALTH AND SAFETY PLAN

- d) For each hazard, identify the action levels (contaminant concentrations in air) or physical conditions;
 - e) Description of the work habit changes triggered by the above action levels or physical conditions;
 - f) Frequency and types of air and personnel monitoring - along with the environmental sampling techniques and instrumentation - to be used to detect the above action levels. Include instrumentation maintenance and calibration methods and frequencies;
 - h) Confined space entry procedures-(if applicable);
 - g) Decontamination procedures;
 - I) Measures to be taken to secure the site, excavation and stockpiled soils during and after work hour (e.g. barricades, caution tape, fencing, trench plates, plastic sheeting, security guard, etc.);
 - j) Spill containment/emergency/contingency plan. Be sure to include emergency phone numbers, the location of the phone nearest the site, and directions to the hospital near the site;
 - k) Documentation that all site workers have received the appropriate ASIA approved training and participate medical surveillance per 29 CFR 1910.120;
- l) A page for employees to sign acknowledging that they have read and will comply with the site health and safety plan.

The safety plan must be distributed to all employees and contractors working in hazardous waste operations on site. A complete copy of the site health and safety plan along with any standard operating procedures shall be on site and accessible at all times.

Hazardous Waste Operations and Emergency Response; Final Rule, March 6, 1989; Safety plans of certain underground tank sites may need to meet the complete requirements of this Rule.

19) PLOT PLAN

The plan should consist of a scaled view of the facility at which the tank(s) are located and should include the following information:

- a) Scale;
- b) North Arrow;
- c) Property Lines;
- d) Location of all structures;
- e) Location of all relevant existing equipment including tanks and piping to be removed and dispensers;
- f) Streets;
- g) Underground conduits, sewers water lines utilities;
- h) Existing wells; drinking monitoring, etc;
- I) Depth to ground water; and
- j) All existing tank(s) and piping in addition to the tank(s) being removed.

20) PERMIT FEE

A check payable to the City of Oakland for the amount indicated must accompany the plans.

- 21) Blank unauthorized Leak/Contamination Site Report forms may be obtained in limited quantities from this office or from the San Francisco Regional Water Quality Control Board (510) 286-1255. Larger quantities may be directly from the State Water Resources Control Board at (916) 739-2421.

22) TANK CLOSURE REPORT

The Tank Closure reports: General description of the closure activities, indicate;

- a) Description of tank, fittings and piping conditions. Size and former contents; note any corrosion, pitting, holes;
- b) Description of the excavation itself. Include tank and excavation depth, a log of the stratigraphic units encountered within the excavation, a description of root holes or other potential pathways the depth to any observed ground water, locations of stained or odor-bearing oil, and descriptions of any observed free product or sheen;
- c) Detailed description of sampling methods., i.e. - backhoe bucket, drive sampler, bailer, bottles (s), sleeves;
- d) Description of any remedial measures conducted at the time of tank removal;
- e) To-scale figures showing the excavation size and depth, nearby buildings, sample locations and depths, and tank and piping locations include a copy of the plot plan prepared for the Tank Closure-plan under item #19;
- f) Chain of custody records;
- g) Copies of signed laboratory reports;
- h) Copies of TSDf to Generator Manifests for all hazardous wastes hauled offsite (sludge, Rinsate, tanks and piping, contaminated soil, etc), and
- i) Documentation of the disposal of/and volume and final destination all non-manifested contaminated soil disposed offsite.

INDICATE THE RESPONSIBLE PARTY TO BE BILLED FOR ADDITIONAL FSA/OES STAFF TIME EXPENDED BEYOND THE HOURS COVERED BY THE INITIAL DEPOSIT AMOUNT. THE PARTY MUST ACKNOWLEDGE THIS RESPONSIBILITY FOR THE ADDITIONAL BILLING BY SIGNATURE AND DATE BELOW.

NAME ENVIROCLEAN, INC

MAILING ADDRESS 2820 E. 18th St, Antioch, CA 94509
STREET CITY, STATE, ZIP

DAY PHONE NUMBER (925) 779-9501
area code phone #

SIGNATURE Diane Summers

DATE Dec 21, 1998

APPENDIX B

UST PERMIT TO OPERATE

STID # 3958
Page 1 of 1

Alameda County Environmental Health Services

Underground Storage Tank Operating Permit

Issue Date- February 19, 1997
Expiration Date- December 22, 1998

This permit is issued to the underground storage tank owner. It must be kept at the UST location at all times.
An application for the renewal of this permit must be filed with this office prior to the expiration date.
The permit holder must notify Alameda County Environmental Health Services within 30 days of any changes to the permit or UST systems, unless required to obtain approval before making the change.

UST Facility Name- South Airport Fueling Facility Address-Taxiway(Uniform Oakland Internl Airport) Oakland, 94621 (Tank Site) Phone- 510-577-0018
Tank Operator- Port of Oakland
Tank Owner- Port of Oakland (Neil Werner, Envl Comp) Address- 530 Water St., Oakland CA 94607 Phone- 510-272-1176

Total Number of USTs- 3 Emergency Contact Person (day)- Senator Brunsen Phone- 510-577-4018
Emergency/Spill Response Plan- Yes Emergency Contact Person (night)- Senator Brunsen Phone- 510-538-5268
Certification of Financial Responsibility- Yes BOE # TK HQ 44-000568

Owner's Tank ID # -----	Tank # MF08	Tank # MF09	Tank # MF10
1- State UST I.D. from Form B (01-000-)	1- 303958-000001	303958-000002	303958-000003
2- Capacity (gallons)	2- 5000	1000	1000
3- Hazardous Substance Stored	3- Gasoline	Diesel	Diesel
4- Monitoring Method for Tank	4- SIR	SIR	SIR
5- Tank Monitoring Frequency	5- Monthly	Monthly	Monthly
6- Tank Monitoring Alarm?	6- No	No	No
7- Tank Integrity Test (frequency)	7- Biennially	Biennially	Biennially
8- Monitoring Method for Piping	8- Suction/app II	Suction/app II	Suction/app II
9- Piping Monitoring Frequency	9- Daily	Daily	Daily
10- Piping Monitoring Alarm?	10- No	No	No
11- Pump Shutdown?	11- N/A	N/A	N/A
12- Piping Precision Test (frequency)	12- Triennially	Triennially	Triennially
13- Overfill (device)	13- No	No	No
14- Spill Container/Size (gallons)	14- None	None	None
15- Corrosion Protection (method)	15- None	None	None

This operating permit is granted subject to the following conditions:

- A. All applicable state UST requirements contained in the California Code of Regulations, Title 23, Division 3, Chapters 16 and 18, the California Health & Safety Code, Division 20, Chapters 6.7 and 6.75, and all applicable local requirements.
- B. The owner or operator must report any unauthorized releases to the environment to Alameda County Environmental Health Services within 24 hours after the release has been detected or should have been detected. [Call (510)567-6700 M-F from 8:30 to 5, and (510)667-7721 after hours]
- C. The owner or operator must comply with the approved routine monitoring procedures and response plan which are attached to this permit.
- D. Monitoring and maintenance records must be maintained on-site for 3 years.

Issued by Don Avano Date 2/21/97

APPENDIX C

CERTIFICATES OF DISPOSAL AND HAZARDOUS WASTE MANIFESTS

State of California—Environmental Protection Agency
Form Approved OMB No 2050-0039 (Expires 9-30-99)
Please print or type. Form designed for use on elite (12-pin) typewriter.

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802. WITHIN CALIFORNIA, CALL 1-800-852-7550

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. 983463614 (11) D 00019 0 0 0 0 0	Manifest Document No. 110341	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address Port of Oakland ONE Airport Drive OAKLAND, CA 94612					
4. Generator's Phone 510 715-3951		58498861			
5. Transporter 1 Company Name AMERICAN VALLEY WASTE OR.		6. US EPA ID Number F A 2 U P P F T 9 1 9			
7. Transporter 2 Company Name		8. US EPA ID Number			
9. Designated Facility Name and Site Address INDUSTRIAL SERVICE OIL CO. INC 1700 S. 50TH ST LA, CA 90023		10. US EPA ID Number C A 1 0 1 0 2 8 0 0 7 3 8			
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers No. Type	13. Total Quantity	14. Unit Wt/Val	
a. HAZARDOUS WASTE		0 0 1 T T			
b.					
c.					
d.					
15. Special Handling Instructions and Additional Information GLOVES EMERGENCY PHONE 209-557-0857					
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable International and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name KENNARD CALE		Signature Kennard Cale		Month Day Year 06/07/99	
17. Transporter 1 Acknowledgment of Receipt of Materials Printed/Typed Name Steve Huber		Signature Steve Huber		Month Day Year 06/21/99	
18. Transporter 2 Acknowledgment of Receipt of Materials Printed/Typed Name		Signature		Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name Carlos Reyna V		Signature Carlos Reyna V		Month Day Year 06/26/99	

DO NOT WRITE BELOW THIS LINE.

State of California—Environmental Protection Agency
 Form Approved OMB No. 2050-0029 (Expires 9-30-99)
 Please print or type. Form designed for use on a 12-pitch typewriter.

See Instructions on back of page 6.

Department of Toxic Substances Control
 Sacramento, California

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

UNIFORM-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. <i>06170214030149</i>	Manifest Document No. <i>181257</i>	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address <i>OAKLAND Airport 1 Airport Dr. Box 915 Oakland CA 94621</i>		<div style="background-color: #cccccc; padding: 5px;"> 4. Generator's Phone <i>510 715 9351</i> </div>			
5. Transporter 1 Company Name <i>AMERICAN VALLEY WASTE OIL</i>		<div style="background-color: #cccccc; padding: 5px;"> 6. US EPA ID Number <i>06100004719</i> </div>			
7. Transporter 2 Company Name		<div style="background-color: #cccccc; padding: 5px;"> 8. US EPA ID Number </div>			
9. Designated Facility Name and Site Address <i>INDUSTRIAL SERVICE OIL CO. INC 1700 S. SOTO ST LA, GA 30023</i>		<div style="background-color: #cccccc; padding: 5px;"> 10. US EPA ID Number <i>06100004719</i> </div>			
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers No. Type	13. Total Quantity	14. Unit Wt/Vol	
a. <i>NONHAZARDOUS LIQUID (OIL)</i>		200 55			
b.					
c.					
15. Special Handling Instructions and Additional Information <i>GLOVES EMERGENCY PHONE 309-667-8957</i>					
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name <i>Diane Simmons</i>		Signature <i>Diane Simmons</i>		Month Day Year <i>06/18/99</i>	
17. Transporter 1 Acknowledgment of Receipt of Materials Printed/Typed Name <i>Steve Huber</i>		Signature <i>Steve Huber</i>		Month Day Year <i>06/18/99</i>	
18. Transporter 2 Acknowledgment of Receipt of Materials Printed/Typed Name		Signature		Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name		Signature		Month Day Year	

DO NOT WRITE BELOW THIS LINE.

State of California—Environmental Protection Agency
 Form Approved OMB No. 2050-0029 (Expires 9-30-99)
 Please print or type. Form designed for use on elite (12-pitch) typewriter.

See Instructions on back of page 6.

Department of Toxic Substances Control
 Sacramento, California

IN CASE OF EMERGENCY OR SPIEL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802. WITHIN CALIFORNIA, CALL 1-800-852-7550

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MAD 98246301H A 91 S 1	Manifest Document No.	2. Page 1 of 2	Information in the shaded areas is not required by Federal law
3. Generator's Name and Mailing Address OAKLAND Airport 1 Airport Dr. # 4		98498857			
4. Generator's Phone 510 775-7951	5. Transporter 1 Company Name AMERICAN VALLEY WASTE OIL		6. US EPA ID Number E 92 000 P 1 7 1 9		
7. Transporter 2 Company Name		8. US EPA ID Number			
9. Designated Facility Name and Site Address INDUSTRIAL SERVICE OIL CO, INC 1700 S. SOTO ST A, CA 95023		10. US EPA ID Number E A E 0 0 6 6 1 1 7 3 4			
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. NON-HAZARDOUS WASTE LIQUID		0	1		
b.					
c.					
d.					
13. Special Handling Instructions and Additional Information GLOVES EMERGENCY PHONE 209-487-8857					
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name DAWNE SUMMERS		Signature Dawne Summers		Month Day Year 06 07 99	
17. Transporter 1 Acknowledgment of Receipt of Materials Printed/Typed Name Steve Huber		Signature Steve H		Month Day Year 06 07 99	
18. Transporter 2 Acknowledgment of Receipt of Materials Printed/Typed Name		Signature		Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name		Signature		Month Day Year	

DO NOT WRITE BELOW THIS LINE.

See Instructions on back of page 6.

Department of Toxic Substances Control
 Sacramento, California

State of California--Environmental Protection Agency
 Form Approved OMB No. 2050-0039 (Expires: 9-30-99)
 Make print or type. Form designed for use on wire (12-pitch) typewriter

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-474-8802. WITHIN CALIFORNIA, CALL 1-800-932-7300

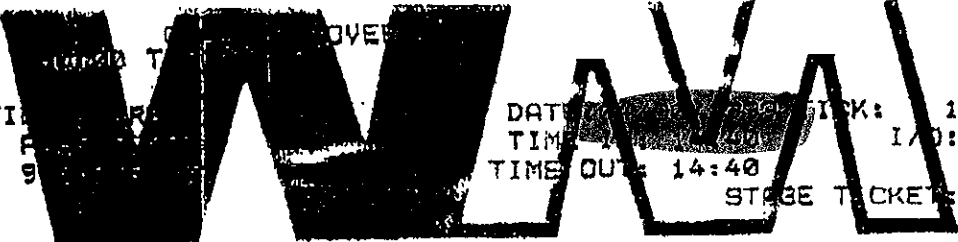
UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA10191821461316114	Manifest Document No. 91711615	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address OAKLAND AIRPORT AIRPORT DR #45 OAKLAND, CA 94621		98798165			
4. Generator's Phone (510) 715-3951	5. Transporter 1 Company Name AMERICAN VALLEY WASTE OIL		6. US EPA ID Number CAL000127870		
7. Transporter 2 Company Name		8. US EPA ID Number			
9. Designated Facility Name and Site Address INDUSTRIAL SERVICE OIL CO. INC. 1700 S. SOTO ST CA 94621		10. US EPA ID Number CAL000127870			
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers		13. Total Quantity	14. Unit Wt/Vol	15. Special Handling Instructions and Additional Information
	No.	Type			
NONHAZARDOUS SOLID WASTE		300	7	21000	GLOVES EMERGENCY PHONE 209-867-8857
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name D. PRANT		Signature <i>[Signature]</i>		Month Day Year 9 15 99	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Steve Huber		Signature <i>[Signature]</i>		Month Day Year 9 12 99	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19 Printed/Typed Name		Signature		Month Day Year	

DO NOT WRITE BELOW THIS LINE.

YELLOW
VAN OF JOB:

ALTAMONT LANDFILL
2840 ALTAMONT
IVERMORE, CA 9

DATE: TICK: 125568 - 1
TIME: I/O: I
TIME OUT: 14:40
STAGE TICKETS: 123440



CARRIER: CHAMA CHAHAL TRUCKING
TRUCK#: 38
CUSTOMER: ENVIRO ENVIROCLEAN
GENERATOR: POO PORT OF OAKLAND
ORIGIN: OAK OAKLAND

WASTE MANAGEMENT

PROFILE 53855700

MANIFEST	WASTE DESCRIPTION	QUAN.	PER	RATE	AMOUNT	TAX	FEE	TO
	C2C CLASS II COVER SOI	8.39	T	20.00	167.80	0.00	0.00	167

GROSS: 47920 PB LBS

CUSTOMER: *Salut or*

WashOut: 2

TARE: 31140 PT LBS

OffLoad: 2

8.39 LBS TONS 8.39 WEIGHMASTER:

Service: 0

Service: 0

WEIGH IN CLERK: ROSELIO, ROJAS

WEIGH OUT CLERK: ROSELIO, ROJAS

THIS IS TO CERTIFY THAT THE FOLLOWING DESCRIBED COMMODITY WAS WEIGHED,
MEASURED, OR COUNTED BY A WEIGHMASTER WHOSE SIGNATURE IS ON THIS
CERTIFICATE, AS A GUARANTEE OF ACCURACY, AS PRESCRIBED BY
CHAPTER 7 COMMISSION OF DIVISION 5 OF THE CALIFORNIA
BUSINESS AND PROFESSIONS CODE ADMINISTERED BY THE DIVISION OF MEASUREMENT
STANDARDS OF THE DEPARTMENT OF FOOD AND AGRICULTURE

YELLOW CLASS 2 COVER
QUAN OF JOB: 60.00 T QUAL: A

ALTAMONT LANDFILL & RRF
10840 ALTAMONT PASS ROAD
LIVERMORE, CA 94550-9745

DATE: 07/20/1999 TICK: 125505 - 1
TIME IN: 12:11 I/O: I
TIME OUT: 12:11
STAGE TICKET: 129380

CARRIER: CHAHA CHAHAL TRUCKING
TRUCK#: 38 END DUMP
CUSTOMER: ENVIRO ENVIROCLEAN
GENERATOR: POC PORT OF OAKLAND
ORIGIN: OAKLAND

TRAILER#:

PROF LE 53855700

MANIFEST	WASTE	DESCRIPTION	QUANTITY	RATE	AMOUNT	TAX	FEE	TO
AL	C2C	COVER	60 T	20.00	537.60	0.00	0.00	527

GROSS: 83900
TARE: 31140
NET: 52760

CUSTOMER: Steve Rogelio WashOut: 0
OffLoad: 0
Service: 0
Service: 0

WEIGHMASTER: _____

WASTE MANAGEMENT

WEIGH IN CLERK: DONOFRIO, FRANK WEIGH OUT CLERK: DONOFRIO, FRANK

THIS IS TO CERTIFY THAT THE FOLLOWING DESCRIBED COMMODITY WAS WEIGHED, MEASURED, OR COUNTED BY A WEIGHMASTER WHOSE SIGNATURE IS ON THIS CERTIFICATE, WHO IS A RECOGNIZED AUTHORITY OF ACCURACY, AS PRESCRIBED BY CHAPTER 7 COMMENCING WITH SECTION 127001 OF DIVISION 5 OF THE CALIFORNIA BUSINESS AND PROFESSIONS CODE ADMINISTERED BY THE DIVISION OF MEASUREMENT STANDARDS OF THE CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE.

YELLOW CLASS 2 COVER
QUAN OF JOB: 60.00 T QUAL: A

ALTAMONT LANDFILL & RRF
10840 ALTAMONT PASS ROAD
LIVERMORE, CA 94550-9745

DATE: 07/20/1999 TICK: 125418 - 1
TIME IN: 09:17 I/O: I
TIME OUT: 09:17
STAGE TICKET: 129289

CARRIER: CHAHA CHAHAL TRUCKING
TRUCK#: 38
CUSTOMER: ENVIRO ENVIROCLEAN
GENERATOR: POC PORT OF OAKLAND
ORIGIN: OAKLAND

TRAILER#:

PROF LE 53855700

MANIFEST	WASTE	DESCRIPTION	QUANTITY	RATE	AMOUNT	TAX	FEE	TO
AL	C2C	COVER	60 T	20.00	638.60	0.00	0.00	638

GROSS: 95000 KB LBS
TARE: 31140
NET: 63860 LBS TONS: _____

CUSTOMER: Steve Rogelio WashOut: 0
OffLoad: 0
Service: 0
Service: 0

WEIGHMASTER: _____

WASTE MANAGEMENT

WEIGH IN CLERK: ROGELIO, ROJAS WEIGH OUT CLERK: ROGELIO, ROJAS

THIS IS TO CERTIFY THAT THE FOLLOWING DESCRIBED COMMODITY WAS WEIGHED, MEASURED, OR COUNTED BY A WEIGHMASTER WHOSE SIGNATURE IS ON THIS CERTIFICATE, WHO IS A RECOGNIZED AUTHORITY OF ACCURACY, AS PRESCRIBED BY CHAPTER 7 COMMENCING WITH SECTION 127001 OF DIVISION 5 OF THE CALIFORNIA BUSINESS AND PROFESSIONS CODE ADMINISTERED BY THE DIVISION OF MEASUREMENT STANDARDS OF THE CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE.

MID COAST TRANSPORTATION INC.

P.O. BOX 74
ALAMO, CA 94507
PHONE: (925) 449-8211

FREIGHT BILL CA 541
CALT 125842

6:15 096045

DATE 6-17-97

STARTING POINT - FROM - SHIPPER <i>San Victor (General)</i>		DESTINATION - TO - RECEIVER <i>Estimote Station</i>	
EXACT STREET NO.		EXACT STREET NO.	
CITY		CITY	
JOB NO. <i>225</i>	BILL TO FOR OFFICE USE ONLY		
NO. AXLES <i>5</i>	DISTANCE BETWEEN AXLES	CUBIC YARD CAPACITY	CUSTOMER #
TYPE EQUIP.	<input type="checkbox"/> #10 WHEELER	<input type="checkbox"/> TRANSFER	
<input type="checkbox"/> DBL BOTTOM		<input type="checkbox"/> SEMI BOTTOM	

COMMODITY	TAG NO.	WEIGHT	ORIGIN		DESTINATION	
			1 IN	2 OUT	3 IN	4 OUT
	<i>13370</i>	<i>21.6</i>	<i>7:00</i>	<i>7:10</i>	<i>7:45</i>	<i>7:50</i>
	<i>910906</i>	<i>10.15</i>	<i>7:50</i>	<i>8:40</i>	<i>9:15</i>	<i>9:30</i>
			<i>11:00</i>	<i>11:25</i>	<i>12:10</i>	<i>12:30</i>

4. FROM DUMPING LAST TRIP <i>11:00</i>	3. DUMPSITE ARRIVAL TIME <i>11:00</i>	TOTAL LBS.	TOTAL HRS.
1. STARTING TIME FIRST TRIP <i>7:00</i>	2. LAST TRIP DEPART TIME FROM LOAD SITE <i>11:00</i>	TONS	RATE
5. OVER-ALL TIME (4-1) <i>3.3</i>	6. BACK TIME (3-2) <i>.6</i>	STD. BY	MIN.
7. TOTAL TIME (5 + 6) <i>3.9</i>	SUB # <i>111-1800</i>	A FOR OFFICE USE ONLY \$	
8. LESS: MEAL & DOMESTIC	UNDERLYING CARRIER <i>Out West Comp</i>		
9. NET WBS CHARGEABLE <i>6.9</i>	BY <i>111-1800</i> EMP #		
TRUCK NO. <i>64</i>	TRAILER NO. <i>ED-1</i>	ON ALL PAST DUE ACCOUNTS THERE WILL BE A FINANCE CHARGE OF 1.5% PER MONTH WHICH IS 18% ANNUALLY. DEBTOR AGREES TO PAY LEGAL FEES AND COURT COSTS INCURRED IN THE COLLECTION OF DELINQUENT ACCOUNTS.	

RECEIVED IN GOOD CONDITION EXCEPT AS NOTED FUEL

FROM : ENVIROCLEAN, Inc. PHONE NO. : 510 779 9502 Jun. 07 1999 02:48PM P10

MID COAST TRANSPORTATION INC.

P.O. BOX 74
ALAMO, CA 94507
PHONE: (925) 449-8211

FREIGHT BILL CA 541
CALT 125842

096044

DATE 4-30-99

STARTING POINT - FROM - SHIPPER <i>Enviro Clean West</i>	DESTINATION - TO - RECEIVER <i>San Jose Customer</i>
EXACT STREET NO. <i>Highway 1</i>	EXACT STREET NO. <i>La Vista - Hayward</i>
CITY <i>Oakland</i>	CITY <i>Emeryville</i>
JOB NO.	BILL TO FOR OFFICE USE ONLY

NO. AXLES <i>5</i>	DISTANCE BETWEEN AXLES	CUBIC YARD CAPACITY
TYPE EQUIP. <input type="checkbox"/> #10 WHEELER <input type="checkbox"/> TRANSFER <input checked="" type="checkbox"/> SEMI END	<input type="checkbox"/> DBL BOTTOM <input type="checkbox"/> SEMI BOTTOM	
CUSTOMER #		

COMMODITY	TAG NO.	WEIGHT	ORIGIN		DESTINATION	
			1 IN	2 OUT	3 IN	4 OUT
<i>Concrete</i>	<i>11110</i>		<i>10:45</i>	<i>12:20</i>	<i>1:15</i>	<i>12:50</i>
<i>Phosphate</i>			<i>1:00</i>	<i>1:05</i>	<i>1:30</i>	<i>1:40</i>
<i>912266</i>		<i>12:70</i>			<i>1:15</i>	<i>1:15</i>
<i>1293301</i>		<i>1:15</i>			<i>3:20</i>	<i>3:20</i>

4. FINISH DUMPING LAST TRIP <i>3:30</i>	3. DUMP SITE ARRIVAL TIME <i>3:20</i>	TOTAL LBS.	TOTAL HRS.
1. STARTING TIME FIRST TRIP <i>10:45</i>	2. LAST TRIP DEPART TIME FROM LOAD SITE <i>1:15</i>	TONS	RATE \$
5. OVER-ALL TIME (4-1) <i>4.5</i>	6. BACK TIME (2-2) <i>1.7</i>	STD. BY	MIN
7. TOTAL TIME (5+6) <i>6.2</i>	SUB # <i>11222</i>	A FOR OFFICE USE ONLY \$	
8. LESS: MEAL & DOWNTIME	UNDERLYING CARRIER <i>Enviro Clean West</i>		
9. NET HRS. CHARGEABLE (7-8)	BY <i>M. NEVE</i> EMP #		

TRUCK NO. *64* TRAILER NO. *Ed 1*
BY *Dianne*
RECEIVED IN GOOD CONDITION EXCEPT AS NOTED FUEL

ON ALL PAST DUE ACCOUNTS THERE WILL BE A FINANCE CHARGE OF 1.5% PER MONTH WHICH IS 18% ANNUALLY. DEBTOR AGREES TO PAY LEGAL FEES AND COURT COSTS INCURRED IN THE COLLECTION OF DELINQUENT ACCOUNTS.

MID COAST TRANSPORTATION INC.

P.O. BOX 74
ALAMO, CA 94507
PHONE: (925) 449-8211

FREIGHT BILL CA 541
CALT 125842

094671

DATE 4-30-1999

STARTING POINT - FROM - SHIPPER <i>Enviro Clean Inc</i>	DESTINATION - TO - RECEIVER <i>AL TAMOUNT LANDFILL</i>
EXACT STREET NO. <i>AIRPORT</i>	EXACT STREET NO. <i>AL TAMOUNT ROAD</i>
CITY <i>OAKLAND</i>	CITY <i>LIVERMORE</i>
JOB NO.	BILL TO FOR OFFICE USE ONLY

NO. AXLES <i>5</i>	DISTANCE BETWEEN AXLES	CUBIC YARD CAPACITY
TYPE EQUIP. <input type="checkbox"/> #10 WHEELER <input type="checkbox"/> TRANSFER <input checked="" type="checkbox"/> SEMI END	<input type="checkbox"/> DBL BOTTOM <input type="checkbox"/> SEMI BOTTOM	
CUSTOMER #		

COMMODITY	TAG NO.	WEIGHT	ORIGIN		DESTINATION	
			1 IN	2 OUT	3 IN	4 OUT
<i>Concrete</i>	<i>125118</i>	<i>31.93</i>	<i>6:50</i>	<i>8:15</i>	<i>0:15</i>	<i>9:35</i>
<i>125505</i>		<i>86.38</i>	<i>10:30</i>	<i>11:05</i>	<i>12:05</i>	<i>12:05</i>
			<i>1:15</i>	<i>1:30</i>	<i>2:40</i>	<i>3:00</i>

4. FINISH DUMPING LAST TRIP <i>7:00</i>	3. DUMP SITE ARRIVAL TIME <i>6:45</i>	TOTAL LBS.	TOTAL HRS.
1. STARTING TIME FIRST TRIP <i>7:00</i>	2. LAST TRIP DEPART TIME FROM LOAD SITE <i>1:30</i>	TONS	RATE \$
5. OVER-ALL TIME (4-1)	6. BACK TIME (2-2) <i>1:10</i>	STD. BY	MIN
7. TOTAL TIME (5+6)	SUB # <i>11222</i>	A FOR OFFICE USE ONLY \$	
8. LESS: MEAL & DOWNTIME	UNDERLYING CARRIER <i>Enviro Clean</i>		
9. NET HRS. CHARGEABLE (7-8)	BY <i>SUE J. CHAMBERLAIN</i> EMP #		

TRUCK NO. *38* TRAILER NO. *Ed 9*
BY *Dianne*
RECEIVED IN GOOD CONDITION EXCEPT AS NOTED FUEL

ON ALL PAST DUE ACCOUNTS THERE WILL BE A FINANCE CHARGE OF 1.5% PER MONTH WHICH IS 18% ANNUALLY. DEBTOR AGREES TO PAY LEGAL FEES AND COURT COSTS INCURRED IN THE COLLECTION OF DELINQUENT ACCOUNTS.

FROM : ENVIROCLEAN, Inc.

PHONE NO. : 510 779 9502

Jun. 07 1999 02:47PM P9

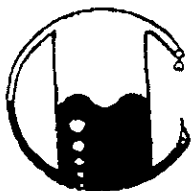
APPENDIX D

LABORATORY REPORTS AND CHAIN-OF-CUSTODY FORM

Apr. 22 1999 04:15PM P2

FAX NO. : 925 943 6884

FROM : MOBILE CHEM LABS



MOBILE CHEM LABS INC.

1678 Relliez Valley Road • Lafayette, CA 94549
Phone (925) 945-1266 • Fax (925) 943-6884

1385\2131\014040

Enviroclean, Inc.
2820 East 18th St.
Antioch, CA 94509
Attn: Dianne Summers
Project Manager

Date Sampled: 04-22-99
Date Received: 04-22-99
Date Analyzed: 04-22-99

Sample Number

Sample Description

V049004

Oakland Airport
Oakland, CA
Proj.# 1385
101 SOIL

ANALYSIS -----

	Detection Limit ----- ppm	Sample Results ----- ppm
Total Petroleum Hydrocarbons as Gasoline	<1.0	41
Benzene	0.005	<0.005
Toluene	0.005	0.039
Xylenes	0.005	0.41
Ethylbenzene	0.005	0.036
MTBE (Methyl tert-Butyl Ether)	0.005	<0.005

Note: Analysis was performed using EPA methods 5030 and TPH
LUFT with method 8020 used for BTEX distinction.
(ppm) = (mg/kg)

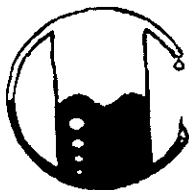
MOBILE CHEM LABS

Ronald G. Evans
Ronald G. Evans
Lab Director

FROM : MOBILE CHEM LABS

FAX NO. : 925 943 6884

Apr. 22 1999 04:15PM P3



MOBILE CHEM LABS INC.

1678 Relliz Valley Road • Lafayette, CA 94549
 Phone (925) 945-1266 • Fax (925) 943-6884

1385\2131\014040

Enviroclean, Inc.
 2820 East 18th St.
 Antioch, CA 94509
 Attn: Dianne Summers
 Project Manager

Date Sampled: 04-22-99
 Date Received: 04-22-99
 Date Analyzed: 04-22-99

Sample Number

V049005

Sample Description

Oakland Airport
 Oakland, CA
 Proj.# 1385
 102 SOIL

ANALYSIS

	<u>Detection Limit</u>	<u>Sample Results</u>
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	<1.0	17
Benzene	0.005	<0.005
Toluene	0.005	0.025
Xylenes	0.005	<0.87
Ethylbenzene	0.005	<0.005
MTBE (Methyl tert-Butyl Ether)	0.005	<0.005

QA/QC: Duplicate Deviation is 11 %

Note: Analysis was performed using EPA methods 5030 and TPH
 LUFT with method 8020 used for BTEX distinction.
 (ppm) = (mg/kg)

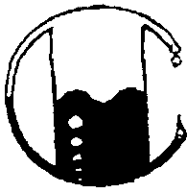
MOBILE CHEM LABS

Ronald G. Evans
 Ronald G. Evans
 Lab Director

FROM : MOBILE CHEM LABS

FAX NO. : 925 943 6884

Apr. 22 1999 04:15PM P4



MOBILE CHEM LABS INC.

1678 Reliez Valley Road • Lafayette, CA 94549
Phone (925) 945-1266 • Fax (925) 943-6884

1385\2131\014040

Enviroclean, Inc.
2820 East 18th St.
Antioch, CA 94509
Attn: Dianne Summers
Project Manager

Date Sampled: 04-22-99
Date Received: 04-22-99
Date Analyzed: 04-22-99

Sample Number

V049006

Sample Description

Oakland Airport
Oakland, CA
Proj.# 1385
Gasoline Pit WATER

ANALYSIS -----

	Detection Limit ----- ppb	Sample Results ----- ppb
Total Petroleum Hydrocarbons as Gasoline	50	380,000
Benzene	0.5	1,500
Toluene	0.5	11,000
Xylenes	0.5	37,000
Ethylbenzene	0.5	600
MTBE (Methyl tert-Butyl Ether)	0.5	28,000

Note: Analysis was performed using EPA methods 5030 and TPE
LUFT with method 8020 used for BTEX distinction.
(ppb) = (ug/kg)

MOBILE CHEM LABS

Ronald G. Evans
Ronald G. Evans
Lab Director

FROM : MOBILE CHEM LABS

FAX NO. : 925 943 6884

Apr. 22 1999 04:16PM P5



MOBILE CHEM LABS INC.

1678 Reliez Valley Road • Lafayette, CA 94549
Phone (925) 945-1266 • Fax (925) 943-6884

1385\2131\014040

Enviroclean, Inc.
2820 East 18th St.
Antioch, CA 94509
Attn: Dianne Summers
Project Manager

Date Sampled: 04-22-99
Date Received: 04-22-99
Date Analyzed: 04-22-99

Sample Number

V049007

Sample Description

Oakland Airport
Oakland, CA
Proj.# 1385
Diesel Pit WATER

ANALYSIS -----

	Detection Limit ----- ppb	Sample Results ----- ppb
Benzene	0.5	<0.5
Toluene	0.5	5.4
Xylenes	0.5	97
Ethylbenzene	0.5	1.9
MTBE (Methyl tert-Butyl Ether)	0.5	<0.5

Note: Analysis was performed using EPA methods 5030 and TPH
LUFT with method 8020 used for BTEX distinction.
(ppb) = (ug/kg)

MOBILE CHEM LABS

Ronald G. Evans
Ronald G. Evans
Lab Director

FROM : MOBILE CHEM LABS

FAX NO. : 925 943 6884

Apr. 22 1999 04:16PM P6



MOBILE CHEM LABS INC.

1678 Reliez Valley Road • Lafayette, CA 94549
 Phone (925) 945-1266 • Fax (925) 943-6884

1385\2131\014040

Enviroclean, Inc.
 2820 East 18th St.
 Antioch, CA 94509
 Attn: Dianne Summers
 Project Manager

Date Sampled: 04-22-99
 Date Received: 04-22-99
 Date Analyzed: 04-22-99

Sample Number	Sample Description	Detection Limit ppm	SOIL
			Total Petroleum Hydrocarbons as Diesel ppm
	Oakland Airport Oakland, CA Proj #: 1385		
V049004	101	5.0	110
V049005	102	5.0	560

QA/QC: Spike Recovery on V049004 is 106 %

Note: Analysis was performed using EPA method 3550 modified and
 TPH LUFT.
 (ppm) = (mg/kg)

MOBILE CHEM LABS

Ronald G. Evans
 Lab Director



MOBILE CHEM LABS INC.

1678 Reliez Valley Road • Lafayette, CA 94549
Phone (925) 945-1266 • Fax (925) 943-6884

1385/2131/014040

Enviroclean, Inc.
2820 East 18th St.
Antioch, CA 94509
Attn: Dianne Summers
Project Manager

Date Sampled: 04-22-99
Date Received: 04-22-99
Date Analyzed: 04-22-99

Sample Number	Sample Description	Detection Limit ppb	WATER
			Total Petroleum Hydrocarbons as Diesel ppb
	Oakland Airport Oakland, CA Proj. # 1385		
V049007	Diesel Pit	50	640

QA/QC: Duplicate Deviation on V049007 is 1.0 %

Note: Analysis was performed using EPA method 3550 modified and
TPH LUFT.
(ppb) = (µg/kg)

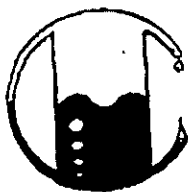
MOBILE CHEM LABS

Ronald G. Evans
Lab Director

FROM : MOBILE CHEM LABS

FAX NO. : 925 943 6884

Apr. 22 1999 04:17PM P8



MOBILE CHEM LABS INC.

1678 Reliez Valley Road • Lafayette, CA 94549
 Phone (925) 945-1266 • Fax (925) 943-6884

1385\2162\014040

Enviroclean, Inc.
 2820 East 18th St.
 Antioch, CA 94510
 ATTN: Dianne Summers
 Project Manager

Date Sampled: 04-22-99
 Date Received: 04-22-99
 Date Analyzed: 04-22-99

TOTAL LEAD

Sample Number	Sample Description	Detection Limit ppm	SOIL RESULTS ppm
V049004,5	Oakland Airport Oakland, CA Proj.# 1385	0.1	10

QA/QC: Spike Recovery on V049004,5 is 89 %
 Duplicate Deviation on V049004,5 is 2.5 %

Note: Analysis was performed using EPA method 7420
 (ppm) = (mg/kg)

MOBILE CHEM LABS

Ronald G. Evans
 Lab Director

Jun. 18 1999 11:02AM P9

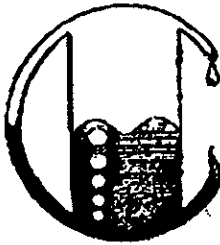
PHONE NO. : 510 779 9502

FROM : ENVIROCLEAN, Inc.

Apr. 22 1999 04:17PM P9

FAX NO. : 925 543 6884

FROM : MOBILE CHEM LABS

Project No. # 1385		Site Name/Location OAKLAND AIRPORT		 <p>MOBILE CHEM LABS, INC. 1678 RELIEZ VALLEY RD. LAFAYETTE, CA 94549 (925) 945-1266 (925) 943-6884 fax</p>																			
Consultant Name ENVIRO CLEAN		Sampler Name																					
Address																							
SAMPLE ID NUMBER	DATE	TIME	LAB ID	SAMPLE PRESERVATION			MATRIX			# of Cont.	GRAB/COMP	TPH-G/BTEX	TPH-D	TOG(418.1)	TEPH	8010/601	8081/608	8240/624	LUFT-5 Met	8270/625			
				HCL	HNO3	ICE	SOIL	WATER	AIR														
101	4/22/99	0750					X			1		X	X										
102		0800					X			1		X	X										
GASOLINE Pit		1030					X	X		6		X											
DIESEL Pit		1040					X	X		6		X	X										
Relinquished By: <i>Diane Sweeney</i>		Date/Time: 4/22/99 1100		Received By: <i>Fred Choate</i>		Date/Time:		Comments: <i>Compost 101 & 102</i>		Turn Around: <i>24 hr</i>													
Relinquished By:		Date/Time:		Received By:		Date/Time:																	

X 106.

	McCAMPBELL ANALYTICAL INC.	110 2nd Avenue South, #D7, Pheasant, CA 94553-5560 Telephone : 925-798-1620 Fax : 925-798-1622 http://www.mccampbell.com E-mail: main@mccampbell.com
--	-----------------------------------	---

EnviroClean, Inc. 2620 E. 18 th Street Antioch, CA 94509	Client Project ID: Oakland Airport	Date Sampled: 04/26/99
		Date Received: 04/27/99
	Client Contact: Dianne Summers	Date Extracted: 04/27/99
	Client P.O.:	Date Analyzed: 04/27/99

05/04/99

Dear Dianne:


Enclosed are:

- 1). the results of 8 samples from your Oakland Airport project.
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,


Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 925-798-1620 Fax: 925-798-1622

QC REPORT FOR HYDROCARBON ANALYSES

Date: 04/27/99

Matrix: SOIL

Analyte	Concentration (mg/kg)			Amount Spiked	% Recovery		
	Sample (#01961)	MS	MSD		MS	MSD	RFD
TPH (gas)	0.000	2.017	1.976	2.03	99	97	2.1
Benzene	0.000	0.204	0.215	0.2	102	108	5.7
Toluene	0.000	0.212	0.222	0.2	106	111	4.6
Ethylbenzene	0.000	0.206	0.212	0.2	103	106	2.9
Xylenes	0.000	0.606	0.624	0.6	101	104	2.9
TPH (diesel)	0	324	307	300	108	102	5.3
TPH (oil and grease)	0.0	22.7	22.8	20.8	109	110	0.4

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RFD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$



Sequoia Analytical

690 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D
1551 Industrial Road

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954
San Carlos, CA 94070-4111

(650) 361-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865
(650) 232-9600

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342
FAX (650) 232-0612

Port of Oakland
530 Water Street
Oakland, CA 94607
Attention: Dale Klettke

Client Project ID: N/A
Sample Matrix: Water
Analysis Method: EPA 5030/8015 Mod./8020
First Sample #: 904-2660

Sampled: Apr 30, 1999
Received: Apr 30, 1999
Reported: May 17, 1999

QC Batch Number: GC050689 GC050699
802004A 802004A

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX / MTBE

Analyte	Reporting Limit µg/L	Sample I.D. 904-2660 Gas Pk	Sample I.D. 904-2661 Diesel Pk
Purgeable Hydrocarbons	50	42,000	120,000
Benzene	0.50	620	N.D.
Toluene	0.50	3,100	N.D.
Ethyl Benzene	0.50	270	N.D.
Total Xylenes	0.50	8,900	N.D.
MTBE	2.5	15,000	N.D.

Chromatogram Pattern: Gasoline Unidentified Hydrocarbons >C7

Quality Control Data

Report Limit Multiplication Factor:	400	1,000
Date Analyzed:	5/6/99	6/6/99
Instrument Identification:	HP-4	HP-4
Surrogate Recovery, %: (QC Limits = 70-130%)	91	89

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

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer

Melissa A. Brewer
Project Manager





Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Stinker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D
1551 Industrial Road

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954
San Carlos, CA 94070-4111

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865
(650) 232-9600
FAX (650) 364-9233
FAX (925) 988-0673
FAX (916) 921-0100
FAX (707) 792-0342
FAX (650) 232-9612

Port of Oakland
530 Water Street
Oakland, CA 94607
Attention: Dale Klettke

Client Project ID: N/A
Sample Matrix: Water
Analysis Method: EPA 3510/3630/8015 Mod.
First Sample #: 904-2660

Sampled: Apr 30, 1999
Received: Apr 30, 1999
Reported: May 17, 1999

QC Batch Number: SP080399 8015EXB SP050399 8015EXB

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS WITH SILICA GEL CLEANUP

Analyte	Reporting Limit µg/L	Sample I.D. 904-2660 Gas Pit	Sample I.D. 904-2661 Diesel Pit
Extractable Hydrocarbons	50	1,700	51,000

Chromatogram Pattern: Unidentified Hydrocarbons C9 - C24 Diesel

Quality Control Data

Report Limit Multiplication Factor:	5.0	20
Date Extracted:	5/3/99	5/3/99
Date Analyzed:	5/11/99	5/11/99
Instrument Identification:	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

Melissa A. Brewer

Melissa A. Brewer
Project Manager





Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Senter Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D
1531 Industrial Road

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petalinga, CA 94954
San Carlos, CA 94070-4111

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865
(650) 232-9600

FAX (650) 364-0233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342
FAX (650) 232-9612

Port of Oakland
530 Water Street
Oakland, CA 94607
Attention: Dale Klettke

Client Project ID: N/A
Sample Descript: Water, Gas Pk
Analysis Method: EPA 8260
Lab Number: 904-2660

Sampled: Apr 30, 1999
Received: Apr 30, 1999
Analyzed: May 13, 1999
Reported: May 17, 1999

QC Batch Number: MS0512998260S2A
Instrument ID: GC/MS-2

MTBE by EPA 8260

Analyte	Detection Limit µg/L	Sample Results µg/L
Methyl t-Butyl Ether (MTBE)	400	20,000

Surrogates	Control Limit %	% Recovery
Dibromofluoromethane	50	150
		102

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

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer

Melissa A. Brewer
Project Manager



12:49 06/06 NO:504

SEQUOIA ANALYTICAL CHAIN OF CUSTODY

819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 FAX (925) 988-9673
 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-0342
 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

Company Name: Port of Oak Project Name: _____
 Mailing Address: 530 Water St Billing Address (if different): _____
 City: Oakland State: CA Zip Code: _____
 Telephone: (510) 272-1118 FAX #: _____ P.O. #: 9904716
 Report To: _____ Sampler: Kent QC Data: Level II (Standard) Chromatograms Level III Level IV

Turnaround Time: Standard 10-15 Working Days
 7 Working Days 2 Working Days
 5 Working Days 1 Working Day
 3 Working Days ASAP

Drinking Water
 Waste Water
 Other
 Analyses Requested: _____

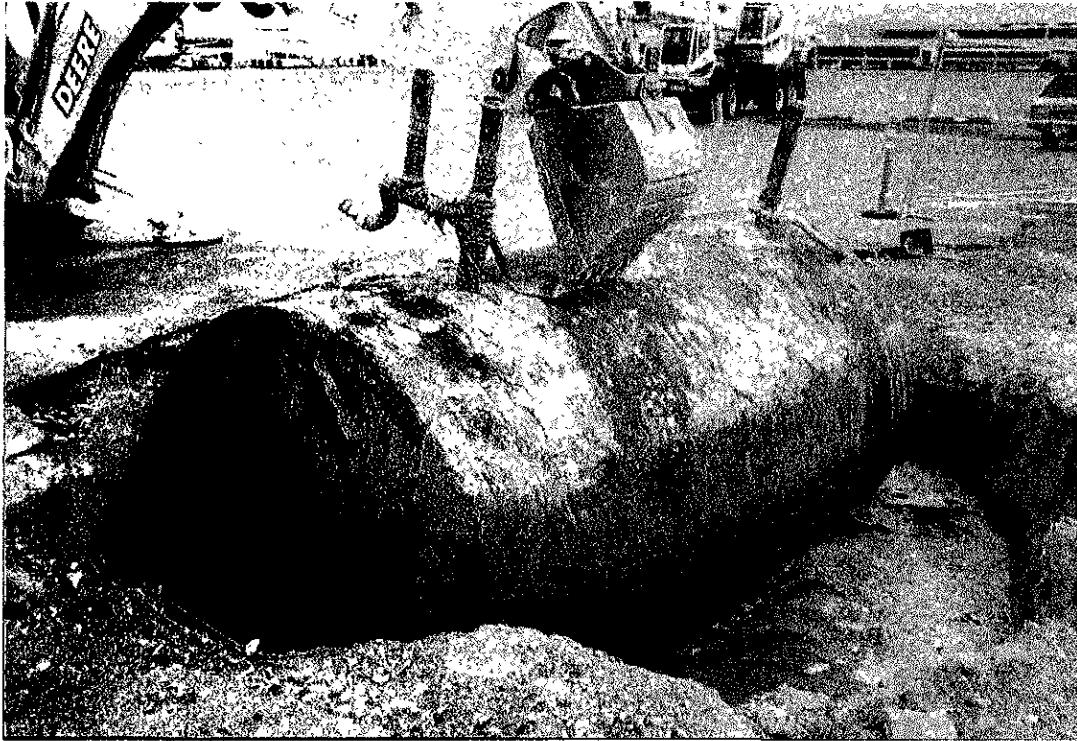
Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	TPHG	TPHD	BTEX	MTBE	Comments
1. gas pit	4/30/99 9:30 AM	W	1	JAW	9042660					8260 IF H ₂
2. gas pit	4/30/99 9:30	W	3	VAR	A-D			dx		on MTBE
3. Diesel pit	4/30/99 9:20	W	1	TWP	9042661					2.0 hrs
4. Diesel pit	4/30/99 9:20 AM	W	3	VAR	A-D			dx		
5.										
6.										
7.										
8.										
9.										
10.										

Relinquished By: <u>[Signature]</u>	Date: <u>4/30/99</u>	Time: <u>9:35 AM</u>	Received By: <u>[Signature]</u>	Date: <u>4/30/99</u>	Time: <u>9:35 AM</u>
Relinquished By: <u>[Signature]</u>	Date: <u>4/30/99</u>	Time: <u>12:00</u>	Received By: _____	Date: _____	Time: _____
Relinquished By: _____	Date: _____	Time: _____	Received By Lab: <u>AMANDA C. JENSEN</u>	Date: <u>4/30/99</u>	Time: <u>12:00</u>

Were Samples Received in Good Condition? Yes No
 Samples on Ice? Yes No Method of Shipment _____ Page ___ of ___

Pink - Client
 Yellow - Sequoia
 White - Sequoia

APPENDIX E
PHOTOGRAPHS



MF8, Gasoline UST



MF9 & MF10, Diesel USTs



MF8 Being Prepared For Transport



Gasoline UST Excavation



Diesel UST Excavation

DISTRIBUTION

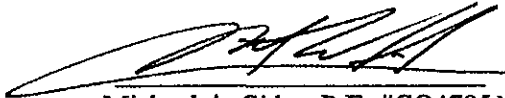
Underground Storage Tank Closure Report
Port Tanks MF08, MF09, And MF10
Metropolitan Oakland International Airport
South Airport Self-Fueling Facility, Taxiway 4
Oakland, California

June 29, 1999

4 Copies Mr. Dale H. Klettke, CHMM
Port of Oakland
Environmental Health & Safety Compliance
530 Water Street, 2nd Floor
Oakland, California 94607

1 Copies Mr. Stephen Crawford
Hazardous Materials Inspector
Oakland Fire Services Agency
505 14th Street, # 510
Oakland, California 94612

Quality Control Reviewer



Michael A. Sides, P.E. #CO47851
Senior Engineer

JGM/SJO/mw 46381/037260R