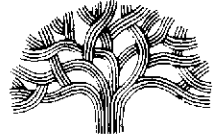




CITY OF OAKLAND
ENVIRONMENTAL PROTECTION



97 OCT 17 PM 4: 20

ENVIRONMENTAL SERVICES • 1333 BROADWAY, SUITE 330A • OAKLAND, CALIFORNIA 94612

Public Works Agency

(510) 238-6688
FAX (510) 238-7286
TDD (510) 238-7644

October 16, 1997

Mr. Barney Chan
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502-6577

Subject: UST Removal Report, City of Oakland Municipal Service Center,
(94407)

Dear Barney:

Enclosed is one copy of the report prepared by our consultant, DOVE Engineering Inc., on the removal of UST-10 and UST-11 at the City of Oakland's Municipal Service Center at 7101 Edgewater Drive.

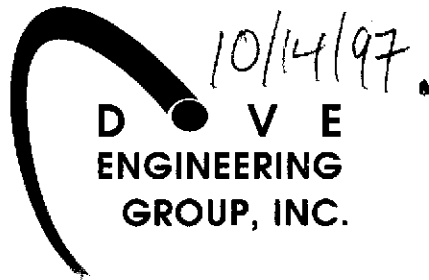
Please call me at 238-7695, if you have any questions or require additional information.

Sincerely,

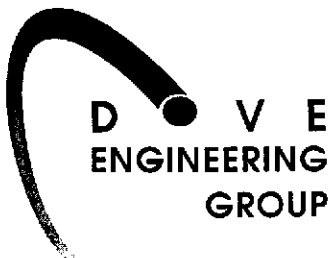
A handwritten signature in cursive script that reads "Mark B. Hersh".

Mark B. Hersh
Environmental Program Specialist

cc: Andrew Clark-Clough
Jeff Krohn



- **Honesty & Integrity**
- **Superior Customer Satisfaction**
- **Commitment To Excellence**



October 14, 1997

Mark Hersh
City of Oakland
Environmental Services Division
1330 Broadway, Suite 330A
Oakland, CA 94612

RE: The Removal of Two Underground Storage Tanks at the City of Oakland Municipal Service Center.

INTRODUCTION

Dove Engineering Group, Inc. (DEGI) is under contract to the City of Oakland Public Works Agency/Environmental Service Division (PWA/ESD) to provide oversight for removal, sampling, and closure of two underground storage tanks (UST) at the City of Oakland Municipal Services Center (MSC). The two tanks removed included one 1000-gallon lubrication oil UST and one 500-gallon waste oil UST. The USTs were removed by Tank Protect Environmental Services. Tank Protect is under contract to the City of Oakland Public Works Agency/Municipal Building Division (PWA/MBD).

SITE LOCATION

The MSC is located at 7101 Edgewater Drive in Oakland, California. The USTs are at the northeastern end of the repair and maintenance facility (Building #5). (See Figure 1 for site location).

SCOPE OF SERVICES

DEGI's scope of services consist of the following:

- ❖ Documenting the excavation, removal and condition of the tanks upon removal;
- ❖ Collecting soil samples within the excavation to verify the levels of contamination, if any, in accordance with the tank removal guidelines established by the California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB);
- ❖ Submitting a final report to the City of Oakland for submittal to the Alameda County Department of Environmental Health (ACDEH).

PRE-FIELD ACTIVITIES

Tank Protect was contracted by PWA/MBD to submit a Tank Closure Plan, Health & Safety Plan, Tank Permits/USA Ticket Number, the removal of the UST's/associated piping and final restoration of the site. Chromolab Analytical Laboratory (Chromolab) of Pleasanton, California provided laboratory analytical services under contract to DEGI.

Tank Protect obtained the tank closure permits and submitted the Tank Closure Plan to ACDEH, the lead oversight agency. Both ACDEH and the City of Oakland Fire Department (OFD) were notified in advance of the UST removal.

TANK REMOVAL

On September 5, 1995, DEGI provided environmental oversight to the City of Oakland PWA/ESD for the removal of two USTs at the northeastern end of Building #5. These USTs were of single-wall welded steel construction. Tank Protect unearthed one 1,000-gallon lubrication oil and 500-gallon waste oil UST. At approximately 1200hrs, Tank Protect began stockpiling the concrete at the northeastern corner of Building #5.

Tank Protect excavated approximately 20 cubic yards of a mixture of gravel and silt like soil. This material was stockpiled on the east side of the excavation area. The product/vent lines were removed as far as the elbows where they enter the base of Building #5. To assess the integrity of the tanks, a visual inspection was performed. Some surface rust was present where tar wrap had deteriorated or where connections were exposed, otherwise, the USTs appeared to be in good condition. The tanks were rendered inert with dry ice thereby displacing any volatile hydrocarbon vapors that may have been present with carbon dioxide and also reducing oxygen levels in the USTs to below levels capable of supporting combustion. At approximately 1400hrs, Barney Chan, the Hazardous Materials Specialist for the ACDEH, and Steve Crawford, of the OFD, approved the USTs as safe for removal. This approval was given after verification that the USTs contained no residual liquid, and the Lower Explosive Limit (LEL) meter read less than 10% (See Hazardous Materials Inspection Form).

The USTs were lifted from the excavation with a backhoe and inspected at the surface for discernible indications of potential leaks. Following tank removal and inspection, the USTs and associating piping, were loaded on a trailer and transported to Erickson Environmental Services of Richmond, California for final disposition. The Hazardous Wastes Manifest for the tanks are included in the Attachments.

SOIL SAMPLING

Under the direction of ACDEH Specialist Barney Chan, three discrete soil samples were collected from native soil in the excavation area. The bucket of the backhoe was used to collect the three soil samples within the excavation at approximately 9-feet bgs. These soil samples were designated as T10N-9.0, T10S-9.0, and T11N-8.0 as shown in the Attachments.

Soil sample T10S-9.0 was collected in the excavation at the west of the 1,000-gallon lubrication oil tank at a depth of approximately 9 feet. The consistency of the soil collected for this sample was a moist, gravely and silty clay material. Soil sample T10N-9.0 was collected at the east side of end of the concrete slab upon which the tanks rested. The consistency of the soil collected for this sample was a moist, black, silty, and gravely material. Soil sample T11N-8.0 was collected at the east side of 500-gallon waste oil tank. The soil sample collected in this area is that of a moist, black and silty soil.

A fourth sample consisted of a four point composite soil sample designated as SP1, -A, -B, -C and -D, were collected from the stockpile. These soil samples were collected in the four compass directions. Two soil samples at the lower portion of the pile and two soil samples at the upper portion of the pile. No odors were detected in any of the soil samples collected within the excavation or in the stockpile.

LABORATORY ANALYTICAL RESULTS/ BACKFILL OPERATIONS

Laboratory analytical results are presented in the Attachments. The tank verification samples were analyzed in accordance with the Regional Water Quality Control Board guidelines. Chromolab performed the laboratory analyses for Total Petroleum Hydrocarbons as Gasoline and Diesel (TPHG and TPHD) and Kerosene, Benzene, Toluene, Ethylbenzene, Xylene, and Motor Oil using EPA methods 8015M, 8015 Mod, and 8020. The laboratory results show that only 1.1 ppm TPHD was detected in T-10S-9.0 and very low levels of TPHD and motor oil were detected in stockpile. This supports field observations wherein no field evidence of contamination was observed. In our opinion, further investigation of the tank pit is not warranted at this time (see Table 1).

Table 1 Chemical Analytical Results*

SAMPLE #	TPHG	TPHD	KEROSENE	BENZENE	TOLUENE	ETHYLBENZENE	XYLENE	MOTOR OIL
T10N-9.0	ND	ND	ND	ND	ND	ND	ND	ND
T10S-9.0	ND	1.1	ND	ND	ND	ND	ND	ND
T11N-8.0	ND	ND	ND	ND	ND	ND	ND	ND
SP1-(A-D)	ND	19	ND	ND	ND	ND	ND	69

All results in milligrams per kilogram (mg/kg)
ND - None Detected

Discussions with the ACDEH indicated that these very low levels of TPHD and motor oil would not pose a problem for backfill soil. The data results are less than the suggested action levels of 100 ppm by Regional Water Quality Control Board. Consequently, the excavated soil was used to backfill excavated area to grade.

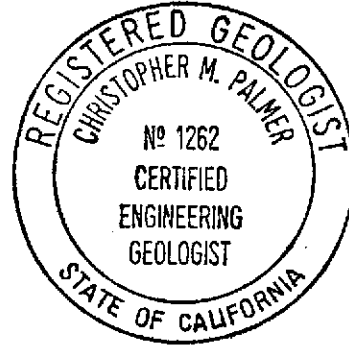
If you have any further questions, please contact me at 510.553.7036.

Sincerely yours,

Dove Engineering Group, Inc.

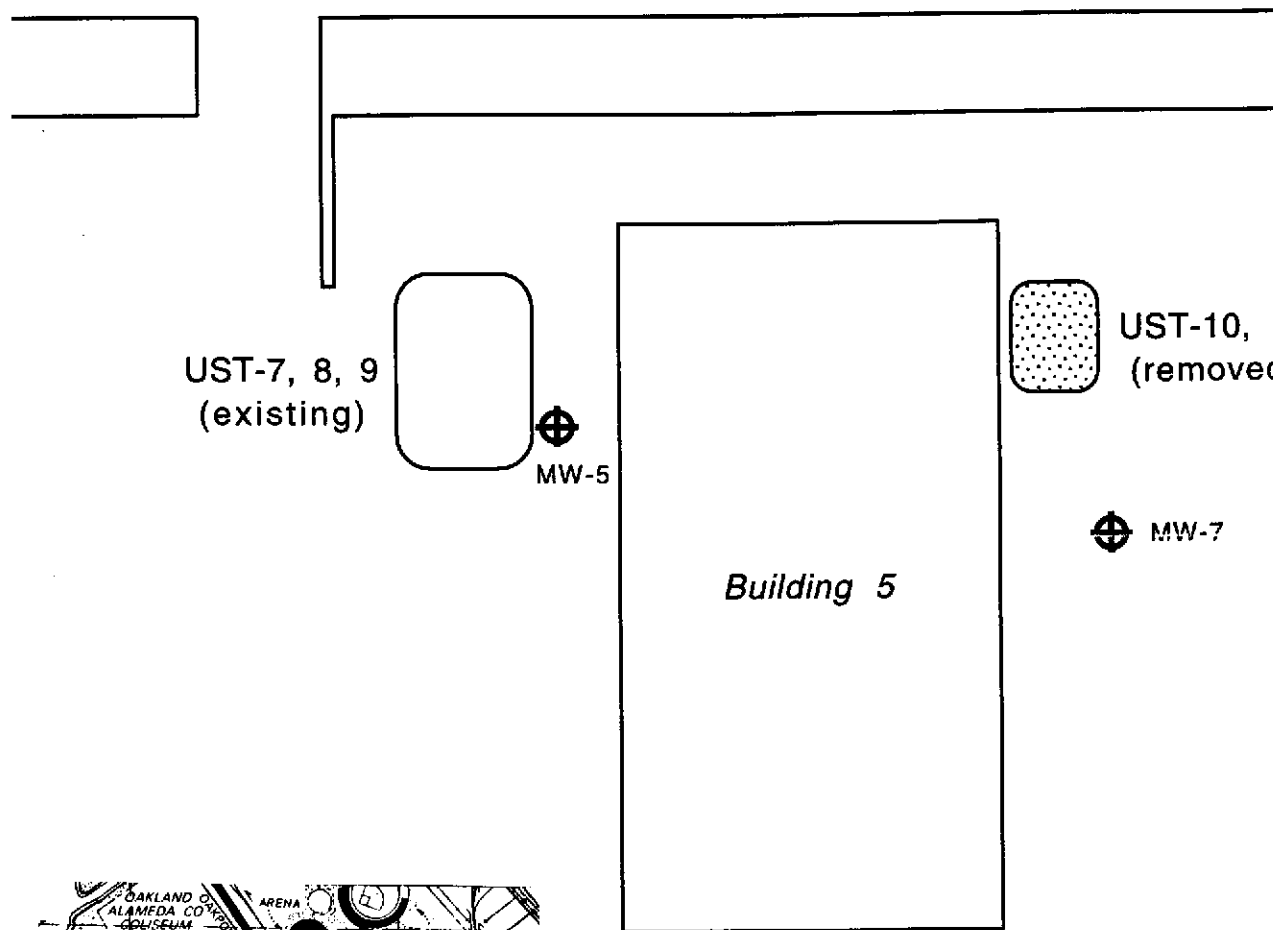


Christopher M. Palmer, C.E.G. #1262
Project Manager



Attachments A-J:

- | | |
|--------------------------------------|--|
| A. Safety Plan - Site | F. Chain of Custody |
| B. Underground Tank Closure Plan | G. Chemical Analytical Reports |
| C. City of Oakland Excavation Permit | H. Uniform Hazardous Waste Manifest |
| D. Soil Sampling Protocol | I. Certified Service Company Certificate |
| E. Underground Tank Removal Form | J. Photos - Tank Removal |



UST-7, 8, 9
(existing)

MW-5

UST-10, 11
(removed)

MW-7

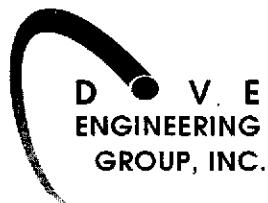
Building 5



 Existing Monitoring Well



Note: Base map area of UST locations compiled by Woodward Clyde Asso., proj. no. 92C0414A, 1995



Site Map, UST-10, 11
Removal

City of Oakland
Municipal Service Center
7101 Edgewater Avenue
Oakland, CA

Scale: 1" = 100'
and as shown
Date: Oct., 1997

Figure 1

**SITE SAFETY PLAN
TANK PROTECT ENGINEERING OF NORTHERN CALIFORNIA, INC.**

**Site: City of Oakland
Municipal Service Center
7101 Edgewater Drive
Oakland, CA 94621**

Project Number: 365-9

**Original Site Safety Plan: Yes (X) No ()
Plan Prepared By: Tank Protect Engineering
Plan Approved By: Jeff Farhoomand**

**Revision Number:
Date: 04/18/97
Date: 04/18/97**

Please respond to each item as completely as possible. Where an item is not applicable, please mark "N/A".

1. KEY PERSONNEL AND RESPONSIBILITIES

(Include name, telephone number and health and safety responsibilities; i.e., project manager - Joe Smith - responsible for supervision of all site activities.)

Project Manager:	Jeff Farhoomand	(510) 429-8088
Site Safety Manager:	Louis Travis III	(510) 429-8088
Alternate Site Safety Manager:		
Field Team Members:	Louis Travis III	(510) 429-8088
	James Bender,	(510) 429-8088

Agency Reps: [Please specify by one of the following symbols: Federal: (F), State: (S), Local: (L), Contractor(s): (C)]

**(L) Alameda County Health Care Services Agency: (510) 567-6700
(L) Oakland Fire Department: (510) 238-3851**

2. JOB HAZARD ANALYSIS

2.1 OVERALL HAZARD EVALUATION

Hazard Level: High () Moderate (X) Low () Unknown ()
 Hazard Type: Liquid () Solid () Sludge () Vapor/Gas (X)

Known or suspected hazardous materials present on site

See below: 1 - Gasoline vapors contain benzene, toluene, xylenes, ethylbenzene; 2 - Diesel; 1 - Waste oil, 4 - New oil

Characteristics of hazardous materials included above (complete for each chemical presents):

MATERIAL #1

Corrosive ()	Ignitable (X)	Toxic (X)	Reactive ()
Volatile (X)	Radioactive ()	Biological Agent ()	
Exposure Routes:	Inhalation (X)	Ingestion ()	Contact (X)
		Skin & Mucous Membrane	

MATERIAL #2

Corrosive ()	Ignitable (X)	Toxic (X)	Reactive ()
Semi-Volatile (X)	Radioactive ()	Biological Agent ()	
Exposure Routes:	Inhalation (X)	Ingestion ()	Contact (X)

MATERIAL #3

Corrosive ()	Ignitable (X)	Toxic (X)	Reactive ()
Volatile ()	Radioactive ()	Biological Agent ()	
Exposure Routes:	Inhalation ()	Ingestion ()	Contact (X)

MATERIAL #4

Corrosive ()	Ignitable ()	Toxic ()	Reactive ()
Volatile ()	Radioactive ()	Biological Agent ()	
Exposure Routes:	Inhalation ()	Ingestion ()	Contact ()

2.2 JOB-SPECIFIC HAZARDS

For each labor category specify the possible hazards based on information available (i.e., Task-driller, Hazards-trauma from drill rig accidents, etc.) For each hazard, indicate steps to be taken to minimize the hazard.

Task - Tank Removal; Hazard - Gasoline Vapor Explosion: To minimize - use 25 lbs. of dry ice per each 1,000 gallon capacity to inert vapor present in tank.

The following additional hazards are expected on site (i.e., snake infested area, extreme heat, etc.): **N/A**

Measures to minimize the effects of the additional hazards are:
N/A

3. MONITORING PLAN

3.1 (a) Air Monitoring Plan

Action levels for implementation of air monitoring. Action levels should be based on published data available on contaminants of concern. Action levels should be set by persons experienced in industrial hygiene.

Level (i.e., 5 ppm)	Action Taken (i.e., commence perimeter monitoring)
5 ppm	Cease work and commence perimeter monitoring until contamination disperses.

(b) Air Monitoring Equipment

Outline the specific equipment to be used, calibration method, frequency of monitoring, locations to be monitored, and analysis of samples (if applicable).

Air monitoring will be done by using Gastech Model 1314. Hexane will be used for calibration of Gastech.

If air monitoring is not to be implemented for this site, explain why: N/A

3.2 Personnel Monitoring

(Include hierarchy of responsibilities decision making on the site)

Safety officer advises field manager who delegates responsibilities to individual team workers.

3.3 Sampling Monitoring

- (a) Techniques used for sampling: Insert a probe inside the tank to determine LEL and oxygen levels.**
- (b) Equipment used for sampling: Gastech Model 1314
1 - Hydrocarbon Super Surveyor**
- (c) Maintenance and calibration of equipment: Use hexane for calibration. Equipment will be calibrated prior to operation.**

4. PERSONAL PROTECTIVE EQUIPMENT (PPE)

Equipment used by employees for the site tasks and operations being conducted. Be Specific (i.e., hard hat, impact resistance goggles, other protective glove, etc.).

Hard hat, protective gloves (petroleum resistant), safety glasses or goggles, respirator (with organic vapor filter) for site emergency personnel.

5. SITE CONTROL AND SECURITY MEASURES

The following general work zone security guidelines should be implemented:

- Work zone shall be barricaded and caution tape used.
- Visitors will not enter the work zone unless they have attended a project safety briefing.
- Persons will not leave the work zone without first passing through the decontamination zone.

6. DECONTAMINATION PROCEDURE

List the procedures and specific steps to be taken to decontaminate equipment and PPE. Wash with tri-sodium phosphate solution and rinse with clean potable water.

7. TRAINING REQUIREMENTS

Prior to mobilization at the job site, employees will attend a safety briefing. The briefing will include the nature of the wastes and the site, donning personal protection equipment, decontamination procedures and emergency procedures.

8. MEDICAL SURVEILLANCE REQUIREMENTS

If any task requires a very high personnel protection level, personnel shall provide assurances that they have received a physical examination and they are fit to do the task. Also personnel will be instructed to look for any symptom of heat stress, heat stroke, heat exhaustion or any other unusual symptom. If there is any report of that kind it will be immediately followed through, and appropriate action will be taken.

9. STANDARD OPERATION PROCEDURES

Tank Protect Engineering of Northern California, Inc. (TPE) is responsible for the safety of all TPE employees on site. Each contractor shall provide all the equipment necessary to meet safe operation practices and procedures for their personnel on site and be responsible for the safety of their workers.

A "Three Warning" system is utilized to enforce compliance with Health and Safety procedures practices which will be implemented at the site for worker safety:

- * Eating, drinking, chewing gum or tobacco, and smoking will be allowed only in designated areas.
- * Wash facilities will be utilized by workers in the work areas before eating, drinking, or use of the toilet facilities.
- * Containers will be labeled identifying them as waste, debris or contaminated clothing.
- * All site personnel will be required to wear hard hats and advised to take adequate measures for self protection.
- * Any other action which is determined to be unsafe by the site safety officer.

10. CONFINED SPACE ENTRY PROCEDURES

No one is allowed to enter any confined space operation without proper safety measures.

11. EMERGENCY RESPONSE PLAN

Fire extinguisher(s) will be on site prior to excavation. Relevant phone numbers:

Person	Title	Phone No.
<u>Jeff Farhoodand</u>	Project Manager	(510) 429-8088
_____	Fire	911 or _____
_____	Police	911 or _____
_____	Ambulance	911 or _____
_____	Poison Control Center	(800) 523-2222
_____	Nearest off-site no.	_____
<u>Alameda Hospital</u>		(510) 522-3700
<u>Mr. Jeffery S. Krohn</u>	Client Contact	(510) 615-5515
<u>U.S EPA - ERT</u>		(201) 321-6660
<u>Chemtrec</u>		(800) 424-9300
<u>Centers for Disease Control</u>	Day	(404) 329-3311
	Night	(404) 329-2888
<u>National Response Center</u>		(800) 424-8802
<u>Superfund/RCRA Hotline</u>		(800) 424-8802
<u>TSCA Hotline</u>		(800) 424-9065
<u>National Pesticide Information Services</u>		(800) 845-7633
<u>Bureau of Alcohol, Tobacco, and Firearms</u>		(800) 424-9555

HEALTH AND SAFETY COMPLIANCE STATEMENT

I, _____ have received and read a copy of the project Health and Safety Plan.

I understand that I am required to have read the aforementioned document and have received proper training under the occupational Safety and Health Act (29 CFR, Part 1910.120) prior to conducting site activities at the site.

Signature

Date

Signature

Date

Signature

Date

Signature

Date

Nearest Hospital:

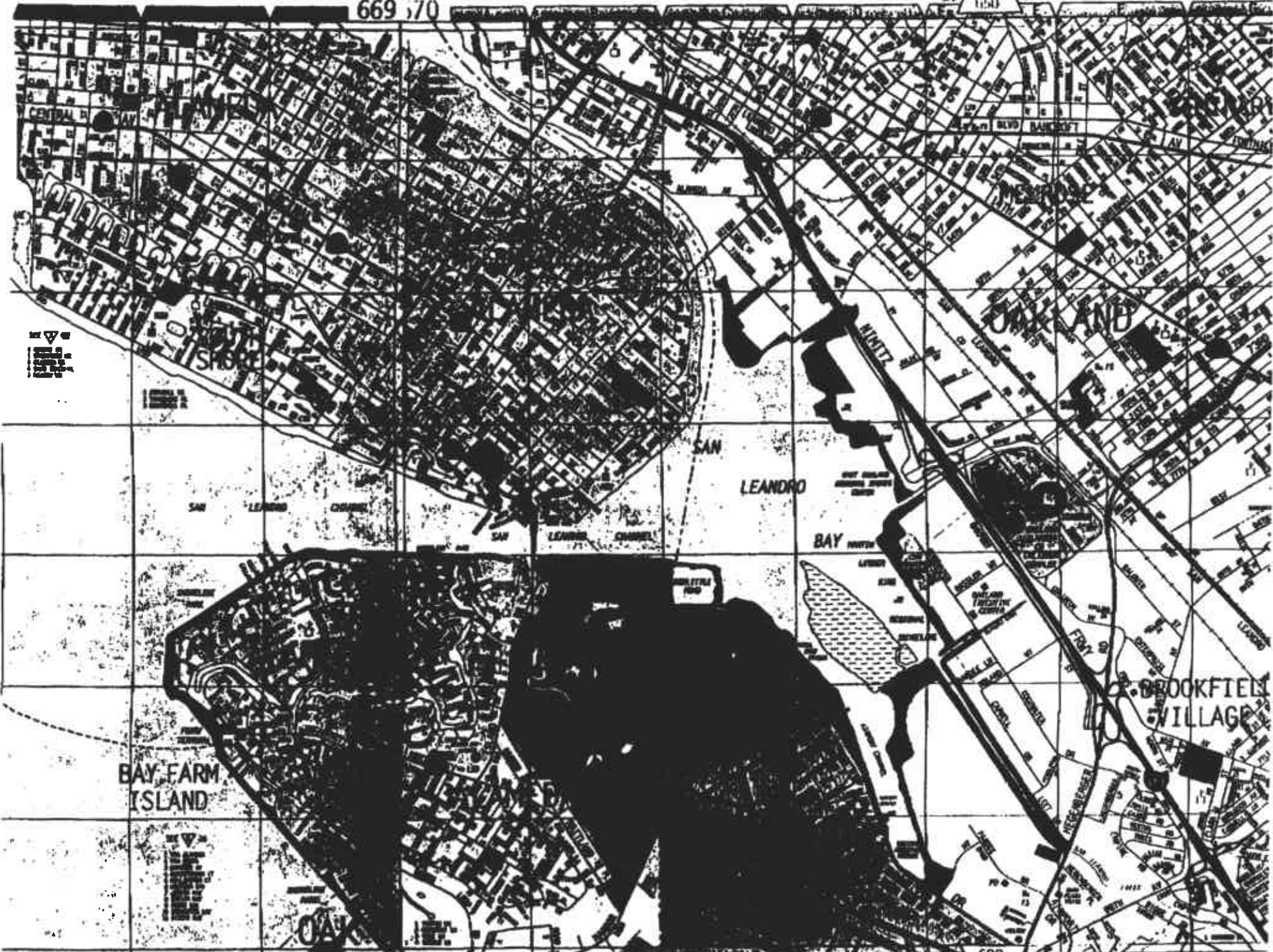
**Alameda Hospital
2070 Clinton Avenue
Alameda, CA 94501
Gen. Info. (510) 522-3700
Emergency (510) 523-4357**

Directions From Site:

From Edgewater take 880 North, Exit on 29th Street/Park Street going west. Turn "right" on Otis Drive, "right" on Willow Street, look for hospital on left hand side.

669 70

150



San Leandro

BAY FARM ISLAND

SAN LEANDRO

BAY

BROOKFIELD VILLAGE

690

03/13/13 08:24 4238003

1484 PROJ E1 END

PAGE 27

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
 DEPARTMENT OF ENVIRONMENTAL HEALTH
 ENVIRONMENTAL PROTECTION DIVISION
 1131 HARBOR BAY PARKWAY, RM 250
 ALAMEDA, CA 94502-6577
 PHONE # 510/567-6700
 FAX # 510/567-9335

Barney Chen
 Project Specialist

4/14/97 Blh

Note other requirement in RSD

ACCEPTED

Underground Storage Tank Closure Permit Application
 Alameda County Division of Hazardous Materials
 1131 Harbor Bay Parkway, Suite 250
 Alameda, CA 94502-6577

These closure/removal plans have been received and found to be acceptable and essentially meet the requirements of State and Local Health Laws. Changes to your closure plan indicated by this Department are to assure compliance with State and local laws. The project proposed herein is now released for issuance of any required building permits to construction/instruction.

One copy of the accepted plans must be on the job and available to all contractors and craftsmen involved with the removal.

Any changes or alterations of these plans and specifications must be submitted to this Department and to the Fire and Building Inspectors Department to determine if such changes meet the requirements of State and local laws. Notify this Department at least 72 hours prior to the following requested inspections:

- ___ Removal of Tank(s) and Piping
- ___ Sampling
- ___ Final Inspection

Issuance of a) permit to operate, b) permanent site closure, is dependent on compliance with accepted plans and all applicable laws and regulations.

THERE IS A FINANCIAL PENALTY FOR NOT OBTAINING THESE INSPECTIONS.

Contact Specialist.

UNDERGROUND TANK CLOSURE PLAN

*** Complete according to attached instructions ***

1. Name of Business City of Oakland Municipal Service Center
 Business Owner or Contact Person (PRINT) Jeffrey S. Kasha
2. Site Address 7101 Edgewater Drive
 city Oakland zip 94621 Phone (510)615-5515
3. Mailing Address 7101 Edgewater Drive
 city Oakland zip 94621 Phone (510)615-5515
4. Property Owner City of Oakland
 Business Name (if applicable) _____
 Address 7101 Edgewater Drive
 city, state Oakland CA zip 94621
5. Generator name under which tank will be manifested
City of Oakland
 EPA ID# under which tank will be manifested CA 02981424609

3978

6. Contractor Tank Protect Engineering of Northam, California, Inc.
 Address 2821 Whipple Road
 City Union City CA 94587 Phone (510) 49-8088
 License Type H02 A 575837 ID# _____

*Effective January 1, 1992, Business and Professional Code Section 7058.7 requires prime contractors to also hold Hazardous Waste Certification issued by the State Contractors License Board.

7. Consultant (if applicable) Same as contractor.
 Address _____
 City, State _____ Phone _____

8. Main Contact Person for Investigation (if applicable)
 Name Jaffrey S. Kohn Title _____
 Company City of Oakland
 Phone (510) 615-5515

9. Number of underground tanks being closed with this plan 9
 Length of piping being removed under this plan ? 0
 Total number of underground tanks at this facility (**confirmed with owner or operator) ? 14

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 Owner's responsibility EPA I.D. No. _____
(Tanks will be emptied prior to removal day)
 Hauler License No. _____ License Exp. Date _____
 Address _____
 City _____ State _____ Zip _____

b) Product/Residual Sludge/Rinsate Disposal Site

Name N/A EPA ID# _____
 Address _____
 City _____ State _____ Zip _____

c) Tank and Piping Transporter

Name Cuckson, Inc EPA I.D. No. CA0009461392
 Hauler License No. 0019 License Exp. Date _____
 Address 255 Park Blvd
 City Richmond State CA Zip 94801

d) Tank and Piping Disposal Site

Name Cuckson, Inc EPA I.D. No. CA0009461392
 Address 255 Park Blvd
 City Richmond State CA Zip 94801

11. Sample Collector

Name Louis Travis III
 Company Tank Protect Engineering of Northern California Inc
 Address 2821 Whipple Road
 City Union City State CA Zip 94587 Phone (510) 429-5088

12. Laboratory

Name Priority Environmental Labs
 Address 1767 Stewart Court
 City Milpitas State CA Zip 95035
 State Certification No. 1708

13. Have tanks or pipes leaked in the past? Yes [] No [] Unknown []

If yes, describe. _____

14. Describe methods to be used for removing liquid contents from tanks.

Use 25 lbs of dry ice for each 1,000 gallon capacity for each tank. Verify with onsite LEL meter.

Before tanks are pumped out and inerted, 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, along with local Fire and Building Departments, must also be contacted for tank removal permits. Fire departments typically require the use of a combustible gas indicator to verify tank inertness. It is the contractor's responsibility to bring a working combustible gas indicator on-site to verify that the tank is inert.

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	Diesel	soil	One sample at each end of tanks max of 2ft below the pit into native soil ↓ ↓ ↓ One sample every 20 linear feet of under piping if not dispersed.
5,000	Gasoline leaded	soil	
5,000	Gasoline Un	soil	
8,000	Unknown	soil	
12,000	Gasoline	soil	
1,000	Lube Oil	soil	
500	Waste Oil	soil	
1,000	Lube Oil	soil	
500	Waste Oil	soil	
	Piping	soil	
* If groundwater is present in the excavation sample will be collected from sidewall at soil/water interface			

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

<p>Stockpiled Soil Volume (estimated) <i>20 Cubic Yards</i></p>	<p>Sampling Plan <i>One composite sample consisting of at least 4 discrete samples for every 20 cubic yards - minimum or one sample for every 20 cubic yards maximum</i></p>
---	--

Stockpiled soil must be placed on bermed 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 not be returned to the excavation without **prior** approval from Alameda County. This means that the contractor, consultant, or responsible party must communicate with the specialist **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
<i>Diesel TPHD</i>	GCFID 3550 BTEX 8020	DHS EPA	1 ppm .005 ppm
<i>Gasoline TPHG</i>	Total or Organic Lead GCFID 5030 BTEX 8020	DHS EPA	1 ppm .005 ppm
<i>Waste oil</i>	GCFID 5030 GCFID 3550 DAG 5520 D+E BTEX 8240 CLHC 8240	DHS EPA DHS EPA DHS EPA	1 ppm 1 ppm 50 ppm .005 ppm
<i>Lube oil TPH as motor oil</i>	<i>If any detected include AA for Cd, Cr, Pb, Zn, & 8270 for PCB, PCP, PNA, Cresote</i> BTEX 8020 TPH as motor oil 8240	EPA EPA	required .005 ppm
<i>As per manufacturer concerned:</i>			
<i>TPHG</i>	GCFID 5030	DHS	1 ppm
<i>TPHD</i>	GCFID 3550	DHS	1 ppm
<i>BTEX</i>	8020	EPA	.005 ppm

see 4/6/95
 + any other analyte required above

18. Submit Worker's Compensation Certificate copy

Name of Insurer State Compensation Insurance Fund19. Submit Plot Plan ***** (See Instructions) *****

20. Enclose Deposit (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.

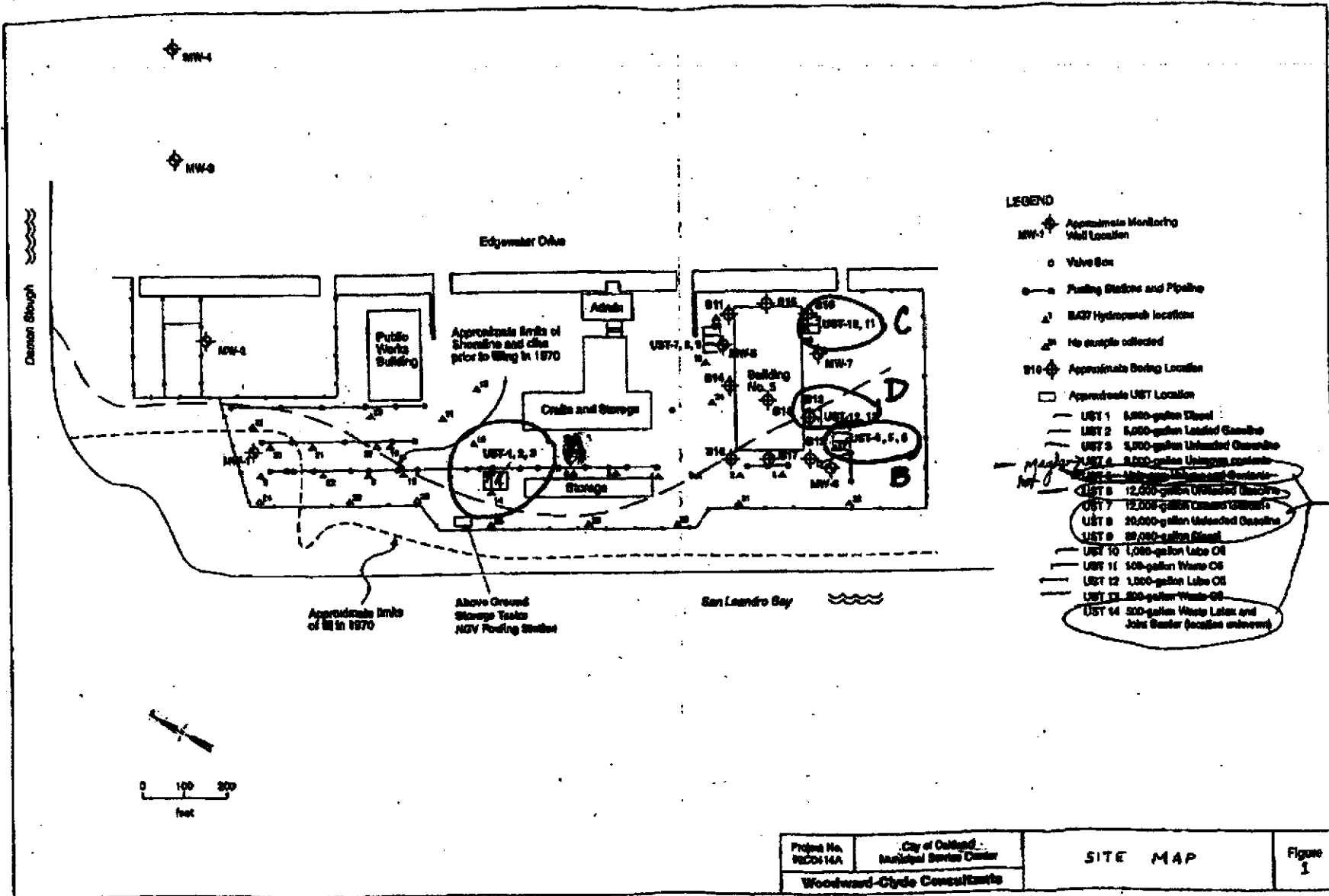
I understand that information, in addition to that provided above, may be needed in order to obtain approval from the Environmental Protection Division and that no work is to begin on this project until this plan is approved.

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 agent and that this responsibility is not shared nor assumed by the County of Alameda.

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

CONTRACTOR INFORMATIONName of Business Tank Protect Engineering of Northern California Inc.Name of Individual Ja Far FarhoodmandSignature Ja Far Farhoodmand Date 4-16-97PROPERTY OWNER OR MOST RECENT TANK OPERATOR (Circle one)Name of Business City of OaklandName of Individual Jeffrey S. KrohnSignature Jeffrey S. Krohn Date 4/16/97



Project No. 98C014A	City of Oakland Municipal Service Center	SITE MAP	Figure I
Woodward-Clyde Consultants			

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD
UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM B



COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM.

MARK ONLY ONE ITEM	<input type="checkbox"/> 1 NEW PERMIT	<input type="checkbox"/> 3 RENEWAL PERMIT	<input type="checkbox"/> 5 CHANGE OF INFORMATION	<input type="checkbox"/> 7 PERMANENTLY CLOSED ON SITE
	<input type="checkbox"/> 2 INTERIM PERMIT	<input type="checkbox"/> 4 AMENDED PERMIT	<input type="checkbox"/> 6 TEMPORARY TANK CLOSURE	<input checked="" type="checkbox"/> 8 TANK REMOVED

DRA OR FACILITY NAME WHERE TANK IS INSTALLED: 7101 Edgewater Drive

I. TANK DESCRIPTION COMPLETE ALL ITEMS - SPECIFY IF UNKNOWN

A. OWNER'S TANK I.D.# <u>Unknown</u>	B. MANUFACTURED BY: <u>Unknown</u>
C. DATE INSTALLED (MO/DAY/YEAR) <u>Unknown</u>	D. TANK CAPACITY IN GALLONS: <u>500</u>

II. TANK CONTENTS IF A-1 IS MARKED, COMPLETE ITEM C.

A. <input type="checkbox"/> 1 MOTOR VEHICLE FUEL	<input checked="" type="checkbox"/> 4 OIL	B. <input type="checkbox"/> 1 PRODUCT	C. <input type="checkbox"/> 1a REGULAR UNLEADED	<input type="checkbox"/> 2 DIESEL	<input type="checkbox"/> 6 ANATION GAS
<input type="checkbox"/> 2 PETROLEUM	<input type="checkbox"/> 50 EMPTY	<input checked="" type="checkbox"/> 2 WASTE	<input type="checkbox"/> 1b PREMIUM UNLEADED	<input type="checkbox"/> 4 GASAHOL	<input type="checkbox"/> 7 METHANOL
<input type="checkbox"/> 3 CHEMICAL PRODUCT	<input type="checkbox"/> 55 UNKNOWN		<input type="checkbox"/> 1c MEDIUM UNLEADED	<input type="checkbox"/> 5 JET FUEL	<input type="checkbox"/> 8 LNG
			<input type="checkbox"/> 2 LEADED	<input type="checkbox"/> 55 OTHER (DESCRIBE IN REM. BELOW)	

D. IF (A.1) IS NOT MARKED, ENTER NAME OF SUBSTANCE STORED _____ C.A.S.#: _____

III. TANK CONSTRUCTION MARK ONE ITEM ONLY IN BOXES A, B, AND C, AND ALL THAT APPLIES IN BOX D AND E

A. TYPE OF SYSTEM	<input type="checkbox"/> 1 DOUBLE WALL	<input type="checkbox"/> 3 SINGLE WALL WITH EXTERIOR LINER	<input type="checkbox"/> 5 INTERNAL BLADDER SYSTEM	<input type="checkbox"/> 55 UNKNOWN
	<input checked="" type="checkbox"/> 2 SINGLE WALL	<input type="checkbox"/> 4 SINGLE WALL IN A VAULT	<input type="checkbox"/> 50 OTHER	
B. TANK MATERIAL (Primary Tank)	<input checked="" type="checkbox"/> 1 BARE STEEL	<input type="checkbox"/> 2 STAINLESS STEEL	<input type="checkbox"/> 3 FIBERGLASS	<input type="checkbox"/> 4 STEEL CLAD W/ FIBERGLASS REINFORCED PLASTIC
	<input type="checkbox"/> 5 CONCRETE	<input type="checkbox"/> 6 POLYVINYL CHLORIDE	<input type="checkbox"/> 7 ALUMINUM	<input type="checkbox"/> 8 100% METHANOL COMPATIBLE W/PP
	<input type="checkbox"/> 9 BRONZE	<input type="checkbox"/> 10 GALVANIZED STEEL	<input type="checkbox"/> 55 UNKNOWN	<input type="checkbox"/> 50 OTHER
C. INTERIOR LINING OR COATING	<input type="checkbox"/> 1 RUBBER LINING	<input type="checkbox"/> 2 ALKYL LINING	<input type="checkbox"/> 3 EPOXY LINING	<input type="checkbox"/> 4 PHENOLIC LINING
	<input type="checkbox"/> 5 GLASS LINING	<input type="checkbox"/> 6 UNLINED	<input checked="" type="checkbox"/> 55 UNKNOWN	<input type="checkbox"/> 50 OTHER
	IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? YES ___ NO ___			
D. EXTERIOR CORROSION PROTECTION	<input type="checkbox"/> 1 POLYETHYLENE WRAP	<input type="checkbox"/> 2 COATING	<input type="checkbox"/> 3 VINYL WRAP	<input type="checkbox"/> 4 FIBERGLASS REINFORCED PLASTIC
	<input type="checkbox"/> 5 CATHODIC PROTECTION	<input type="checkbox"/> 51 NONE	<input checked="" type="checkbox"/> 55 UNKNOWN	<input type="checkbox"/> 50 OTHER

E. SPILL AND OVERFILL, NO. SPILL CONTAINMENT INSTALLED (YEARS) _____ OVERFILL PREVENTION EQUIPMENT INSTALLED (YEARS) _____
 DROPP TUBE YES ___ NO ___ STRIPPER PLATE YES ___ NO ___ DISPENSER CONTAINMENT YES ___ NO ___

IV. PIPING INFORMATION CIRCLE A IF ABOVE GROUND OR U IF UNDERGROUND, BOTH IF APPLICABLE

A. SYSTEM TYPE	A <input checked="" type="radio"/> 1 SUCTION	A U <input type="radio"/> 2 PRESSURE	A U <input type="radio"/> 3 GRAVITY	A U <input type="radio"/> 4 FLEXIBLE PIPING	A U <input type="radio"/> 50 OTHER
B. CONSTRUCTION	A <input checked="" type="radio"/> 1 SINGLE WALL	A U <input type="radio"/> 2 DOUBLE WALL	A U <input type="radio"/> 3 LINED TRENCH	A U <input type="radio"/> 55 UNKNOWN	A U <input type="radio"/> 50 OTHER
C. MATERIAL AND CORROSION PROTECTION	A <input checked="" type="radio"/> 1 BARE STEEL	A U <input type="radio"/> 2 STAINLESS STEEL	A U <input type="radio"/> 3 POLYVINYL CHLORIDE (PVC) A U <input type="radio"/> 4 FIBERGLASS PIPE		
	A U <input type="radio"/> 5 ALUMINUM	A U <input type="radio"/> 6 CONCRETE	A U <input type="radio"/> 7 STEEL W/ COATING	A U <input type="radio"/> 8 100% METHANOL COMPATIBLE W/PP	
	A U <input type="radio"/> 9 GALVANIZED STEEL	A U <input type="radio"/> 10 CATHODIC PROTECTION	A U <input type="radio"/> 55 UNKNOWN	A U <input type="radio"/> 50 OTHER	
D. LEAK DETECTION	<input type="checkbox"/> 1 REMOVAL LINE LEAK DETECTION	<input type="checkbox"/> 2 USE NEAREST TRENCH	<input type="checkbox"/> 3 CONTINUOUS REMOVAL METHOD	<input type="checkbox"/> 4 SENSORS USE (SEE REMARKS)	<input type="checkbox"/> 5 SURFACE PUMP DETECTION
	<input type="checkbox"/> 50 OTHER				

V. TANK LEAK DETECTION

<input type="checkbox"/> 1 VISUAL CHECK	<input type="checkbox"/> 2 MANUAL INVENTORY RECONCILIATION	<input type="checkbox"/> 3 VADZS MONITORING	<input type="checkbox"/> 4 AUTOMATIC TANK GAUGING	<input type="checkbox"/> 5 GROUND WATER MONITORING	<input type="checkbox"/> 6 AREASIAL TANK TESTING
<input type="checkbox"/> 7 CONTINUOUS INTERNAL MONITORING	<input type="checkbox"/> 8 SIF	<input type="checkbox"/> 9 WEEKLY MANUAL TANK GAUGING	<input type="checkbox"/> 10 MONTHLY TANK TESTING	<input type="checkbox"/> 55 UNKNOWN	<input type="checkbox"/> 50 OTHER

VI. TANK CLOSURE INFORMATION (PERMANENT CLOSURE IN-PLACE)

1. ESTIMATED DATE LAST USED (MO/DAY/YEAR)	2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING <u>0</u> GALLONS	3. WAS TANK FILLED WITH INERT MATERIAL? YES <input type="checkbox"/> NO <input type="checkbox"/>
---	---	--

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

TANK OWNER'S NAME (PRINTED & SIGNATURE)	DATE
---	------

LOCAL AGENCY USE ONLY THE STATE I.D. NUMBER IS COMPOSED OF THE FOUR NUMBERS BELOW

STATE I.D.#	COUNTY #	JURISDICTION #	FACILITY #	TANK #
PERMIT NUMBER	PERMIT APPROVED BY/DATE	PERMIT EXPIRATION DATE		

THIS FORM MUST BE ACCOMPANIED BY A PERMIT APPLICATION - FORM A, UNLESS A CURRENT FORM A HAS BEEN FILED. FORM C MUST BE COMPLETED FOR INSTALLATION. THE FORM SHOULD BE ACCOMPANIED BY A PLOT PLAN. FILE THIS FORM WITH THE LOCAL AGENCY IMPLEMENTING THE UNDERGROUND STORAGE TANK REGULATIONS.

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD
UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM B



COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM.

MARK ONLY ONE ITEM 1 NEW PERMIT 2 INTERIM PERMIT 3 RENEWAL PERMIT 4 AMENDED PERMIT 5 CHANGE OF INFORMATION 6 TEMPORARY TANK CLOSURE 7 PERMANENTLY CLOSED ON SITE 8 TANK REMOVED

DBA OR FACILITY NAME WHERE TANK IS INSTALLED: 7101 Edgewater Drive

I. TANK DESCRIPTION COMPLETE ALL ITEMS - SPECIFY IF UNKNOWN

A. OWNER'S TANK I.D.# Unknown B. MANUFACTURED BY: Unknown
C. DATE INSTALLED (MO/DAY/YEAR) Unknown D. TANK CAPACITY IN GALLONS: 1,000

II. TANK CONTENTS IF A-1 IS MARKED, COMPLETE ITEM C.

A. 1 MOTOR VEHICLE FUEL 4 OIL 2 PETROLEUM 3 CHEMICAL PRODUCT 5 EMPTY 6 UNKNOWN
B. 1 PRODUCT 2 WASTE
C. 1a REGULAR UNLEADED 2 DIESEL 6 ANTIKNOCK GAS
 1b PREMIUM UNLEADED 4 GASOLINE 7 METHANOL
 1c MEDIUM UNLEADED 8 JET FUEL 9 MIB
 2 LEADED 99 OTHER (DESCRIBE IN ITEM D. BELOW)

C. IF (A-1) IS NOT MARKED, ENTER NAME OF SUBSTANCE STORED C.A.R.B.:

III. TANK CONSTRUCTION MARK ONE ITEM ONLY IN BOXES A, B, AND C, AND ALL THAT APPLIES IN BOX D AND E

A. TYPE OF SYSTEM 1 DOUBLE WALL 2 SINGLE WALL WITH EXTERIOR LINER 3 INTERNAL BLADDER SYSTEM 99 UNKNOWN
 2 SINGLE WALL 4 SINGLE WALL IN A VAULT 99 OTHER
B. TANK MATERIAL (Primary Tank) 1 BARE STEEL 2 STAINLESS STEEL 3 FIBERGLASS 4 STEEL CLAD W/ FIBERGLASS REINFORCED PLASTIC
 5 CONCRETE 6 POLYVINYL CHLORIDE 7 ALUMINUM 8 100% METHANOL COMPATIBLE W/FRP
 9 BRONZE 10 GALVANIZED STEEL 99 UNKNOWN 99 OTHER
C. INTERIOR LINING OR COATING 1 RUBBER LINING 2 ALKYLID LINING 3 EPOXY LINING 4 PHENOLIC LINING
 5 GLASS LINING 6 UNLINED 99 UNKNOWN 99 OTHER
IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? YES ___ NO ___
D. EXTERIOR CORROSION PROTECTION 1 POLYETHYLENE WRAP 2 COATING 3 VINYL WRAP 4 FIBERGLASS REINFORCED PLASTIC
 5 CATHODIC PROTECTION 91 NONE 99 UNKNOWN 99 OTHER
E. SPILL AND OVERFILL, etc. SPILL CONTAINMENT INSTALLED (YEAR) OVERFILL PREVENTION EQUIPMENT INSTALLED (YEAR)
DROPTUBE YES ___ NO ___ STRIKER PLATE YES ___ NO ___ DISPENSER CONTAINMENT YES ___ NO ___

IV. PIPING INFORMATION CIRCLE A IF ABOVEGROUND OR U IF UNDERGROUND, BOTH IF APPLICABLE

A. SYSTEM TYPE A 1 SUCTION A U 2 PRESSURE A U 3 GRAVITY A U 4 FLEXIBLE PIPING A U 99 OTHER
B. CONSTRUCTION A 1 SINGLE WALL A U 2 DOUBLE WALL A U 3 LINED TRENCH A U 99 UNKNOWN A U 99 OTHER
C. MATERIAL AND CORROSION PROTECTION A 1 BARE STEEL A U 2 STAINLESS STEEL A U 3 POLYVINYL CHLORIDE (PVC) A U 4 FIBERGLASS PIPE
A U 5 ALUMINUM A U 6 CONCRETE A U 7 STEEL W/ COATING A U 8 100% METHANOL COMPATIBLE W/FRP
A U 9 GALVANIZED STEEL A U 10 CATHODIC PROTECTION A U 99 UNKNOWN A U 99 OTHER
D. LEAK DETECTION 1 INTERFERAL LINE LINE SYSTEM 2 LINE TRENCH SYSTEM 3 CORROSION MONITORING SYSTEM 4 BUSINESS LINE LINE SYSTEM 5 AUTOMATIC TANK SYSTEM 99 OTHER

V. TANK LEAK DETECTION

1 VISUAL CHECK 2 MANUAL INVENTORY RECONCILIATION 3 WOODS MONITORING 4 AUTOMATIC TANK GAUGING 5 GROUND WATER MONITORING 6 ANNUAL TANK TESTING
 7 CONTINUOUS INTERFERAL MONITORING 8 IIR 9 WEEKLY MANUAL TANK GAUGING 10 MONTHLY TANK TESTING 99 UNKNOWN 99 OTHER

VI. TANK CLOSURE INFORMATION (PERMANENT CLOSURE IN-PLACE)

1. ESTIMATED DATE LAST USED (MO/DAY/YEAR) 2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING 0 GALLONS 3. WAS TANK FILLED WITH INERT MATERIAL? YES ___ NO ___

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT
TANK OWNER'S NAME (PRINTED & SIGNATURE) DATE

LOCAL AGENCY USE ONLY THE STATE I.D. NUMBER IS COMPOSED OF THE FOUR NUMBERS BELOW
STATE I.D.# COUNTY # JURISDICTION # FACILITY # TANK #
PERMIT NUMBER PERMIT APPROVED BY DATE PERMIT EXPIRATION DATE

THIS FORM MUST BE ACCOMPANIED BY A PERMIT APPLICATION - FORM A, UNLESS A CURRENT FORM A HAS BEEN FILED. FORM C MUST BE COMPLETED FOR INSTALLATIONS. THIS FORM SHOULD BE ACCOMPANIED BY A PLOT PLAN. FILE THIS FORM WITH THE LOCAL AGENCY IMPLEMENTING THE UNDERGROUND STORAGE TANK REGULATIONS
FORM B (6-88)

ALAMEDA COUNTY ENVIRONMENTAL PROTECTION DIVISION

DECLARATION OF SITE ACCOUNT REFUND RECEIPT

There may be excess funds remaining in the Site Account at the completion of this project. The PAYOR (person or company that issues the check) will use this form to predesignate another party to receive any funds refunded at the completion of this project. In the absence of this form, the PAYOR will receive the refund.

SITE INFORMATION:

Site ID Number
(if known)

City of Oakland
Name of Site

7101 Edgewater Drive
Street Address

Oakland CA 94587
City, State & Zip Code

I designate the following person or business to receive any refund due at the completion of all deposit/refund projects:

Tank Protect Engineering of Northern California, Inc.
Name

2821 Whipple Road
Street Address

Union City CA 94587-1233
City, State & Zip Code

Sharon Payne
Signature of Payor

April 16, 1997
Date

Sharon Payne
Name of Payor
(PLEASE PRINT CLEARLY)

Tank Protect Engineer
Company Name of Payor

RETURN FORM TO:
County of Alameda, Environmental Protection
1131 Harbor Bay Parkway, Rm 250
Alameda CA 94502-6577
Phone#(510) 567-6700

City Of Oakland
FIRE PREVENTION BUREAU
421 - 14th Street, Oakland California
94612
510-238-3851

*Permit To Excavate And Install,
Repair,
Or Remove Inflammable Liquid Tanks*
Oakland, California April 28, 1997

Tank Permit Number: 43-97

Permission Is Hereby Granted To:

Remove gas, diesel hube
oil and waste oil

Tank And Excavate Commencing:

Feet Inside: property

Line.

On The:

Site Address: 7101 Edgewater Dr.

Present Storage:

Owner: City of Oakland

Address: 7101 Edgewater Dr., Oakland, Ca

Phone: 615-55515

Applicant: Tank Protect Engineering

Address: 2821 Whipple Rd., Union City, 94587

Phone: 429-8088

Dimensions Of Street (sidewalk) Surface To Be Disturbed :

X

No. Of Tanks 9

Capacity

(3) @ 5000

Gallons, Each

Remarks (1) @ 8000 gal., (1) @ 12,000 gal., (2) @ 1000 gal., (2) @ 500 gal.

This Permit Is Granted In Accordance With Existing City Ordinances. Owner Hereby Agrees To Remove Tanks On Discontinuance Of Use Or When Needed 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

Tank Removal: Inspected And Passed On:

Approved: _____

By: _____

Tank Installations:

Inspection Fee Paid: \$ _____

Pressure Test: Inspected By: _____

Date: _____

Received By: _____

Primary Piping Test: Inspected By: _____

Date: _____

Secondary Containment & Some Testing:

Inspected By: _____

Date: _____

Final: Inspected By: _____

Date: _____

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

SOIL SAMPLING PROTOCOL

SOIL SAMPLING BY DRILLING RIG

ACC reviews the site proposal for boring locations and special instructions and confirms boring locations in the field with client when possible. Underground Service Alert is notified to mark utilities in the area before drilling.

Before initiating an exploratory boring, all equipment to be used during drilling and sampling operation is steam cleaned. Such equipment includes, but is not limited to, augers, bits, drilling rods, and soil samplers. Additionally, before each sampling event, the sampler and any sample liners are cleaned thoroughly with a dilute trisodium phosphate solution and rinsed with clean tap water or distilled water. Additional decontamination procedures are implemented as needed by specific projects.

Each exploratory boring is drilled with a truck-mounted drilling rig using either solid flight or hollow-stem augers. The boring is advanced to the desired sampling depth and the sampler is lowered to the bottom of the hole. The sampler is driven a maximum of 18 inches into the undisturbed soils ahead of the auger by a 140-pound, rig-operated hammer falling 30 inches. The number of blows required to drive the sampler the final 12 inches is recorded on the boring log. When necessary, the sampler may be pushed by the drill rig hydraulics. In this case, the pressure exerted (in pounds per square inch) is recorded. After the sampler has penetrated the full depth, it is retrieved to the surface.

The samplers commonly used are either a California modified sampler (3-inch or 2.5-inch outside diameter) or a standard penetrometer (2-inch outside diameter). The standard penetrometer does not contain sample liners and is used to determine soil strength characteristics and visually characterize the subsurface materials. If samples are collected for laboratory analysis, the California modified sampler, equipped with brass or stainless steel liners, is used except when the analysis will include metals. In this instance, the sample is collected with stainless steel liners and placed in a labeled plastic bag.

Upon retrieval, the sampler is disassembled into its component parts. One or more of the liners is selected for chemical analysis. The ends of the selected liner are sealed with aluminum foil or Teflon® sheeting, capped with tight-fitting plastic end caps, labeled, logged on chain of custody forms, and stored in a pre-chilled, insulated container for preservation in the field and during transport to the analytical laboratory. To the extent possible, all labels are pre-written with indelible ink to minimize handling time.

Samples not sealed for chemical analysis are checked for the presence of contamination in the field by the geologist. Any discoloration or odor is noted on the boring log. Each sample is classified in the field by a geologist using the Unified Soil Classification System and a Munsell soil color chart.

Samples are held in the possession of ACC personnel until transferred to the state-certified analytical laboratory. Transfer to the laboratory is accomplished either by delivery by ACC personnel, pickup by laboratory personnel, or transfer by a personal delivery service. Each transfer of responsibility is recorded on a chain of custody record that accompanies the samples.

Conditions occasionally arise when other drilling equipment is used, given site-specific formation conditions. A rotary drilling method may be selected if coring or bearing conditions arise. A rotary or casing hammer may be used as deep drilling, flowing sands, or formation-specific conditions require.

When drilling through an aquifer known to be contaminated, a staged drilling approach is used. This involves using either a temporary or permanent conductor casing placed adjacent to the contaminated aquifer and pressed or advanced slightly into the underlying aquitard. The cased hole is cleaned as necessary, following which, a smaller diameter drill bit/auger is advanced to the next underlying water bearing stratum. An impermeable seal is placed in the borehole permanent conductor casing placed adjacent to the contaminated aquifer and pressed or advanced slightly into the underlying aquitard. The cased hole is cleaned as necessary, following which, a smaller diameter drill bit/auger is advanced to the next underlying water bearing stratum. An impermeable seal is placed in the borehole or annular space as appropriate upon completion of exploratory boring/well construction.

When drilling with a continuous-flight auger, special attention must be given to avoid cross contamination of underlying aquifers. The following procedures are used by the ACC geologist to prevent pollution of clean aquifers underlying contaminated zones:

1. Drilling will cease if 5 feet of saturated impermeable material is encountered. It will be assumed that any significant saturated, impermeable layer, such as a clay layer, is an aquitard separating the shallow and deep aquifers and should not be penetrated.
2. Drilling will be terminated 15 feet below any perched or unconfined water table. If the purpose of the well is to investigate groundwater impacted by dense, non-aqueous phase liquids, the goal shall be to fully penetrate the aquifer.
3. Drilling will be terminated at a depth of 45 feet below ground surface if groundwater is not encountered. This is above nearly all deep aquifers currently supplying groundwater in the Bay Area.

The ACC geologist will be present during the drilling of exploratory borings and will observe and record changes by time and depth, evaluate the relative moisture and content of the samples, and note water producing zones. This record will be used later to prepare a detailed lithologic log. Lithologic descriptions will include soil or rock type, color, grain size, texture, hardness, degree of induration, carbonate content, presence of fossils or other materials (e.g., gypsum, hydrocarbons), and other pertinent information. A copy of the logs will be retained in the field file at the project site.

SOIL SAMPLING BY HAND

Some situations require that samples be collected by hand without the assistance of drill rig (e.g., soil stockpiles, excavation sidewall sampling). When possible, soil samples are collected using a steel core sampler, equipped with clean brass liners, which is advanced into the soil with a slide hammer. In other cases, the outer surface of the soil is removed and a brass liner is driven into the soil by hand or with a hammer. To avoid damaging the liner, a block of wood may be held next to the liner so that the hammer strikes the block first. The liner is removed and handled as described above. In deep excavations where safety factors preclude the direct sampling of the bottom or sidewall, soil is retrieved by a backhoe bucket. This soil is sampled as soon as feasible, and samples are collected from the least disturbed soil near the teeth of the backhoe bucket or as directed by regulatory personnel.

SOIL CUTTINGS

Soil cuttings generated during drilling will be placed in steel, Department of Transportation-approved drums. Drums will be labeled as to contents, suspected contaminants, date container was filled, expected removal dated, company name and phone number of technical contact, and name of generator. Drums will be sealed and left on site for subsequent disposal pending receipt of analytical results. Drums will be disposed of appropriately at an accepting facility.

UNDERGROUND TANK REMOVAL FORM

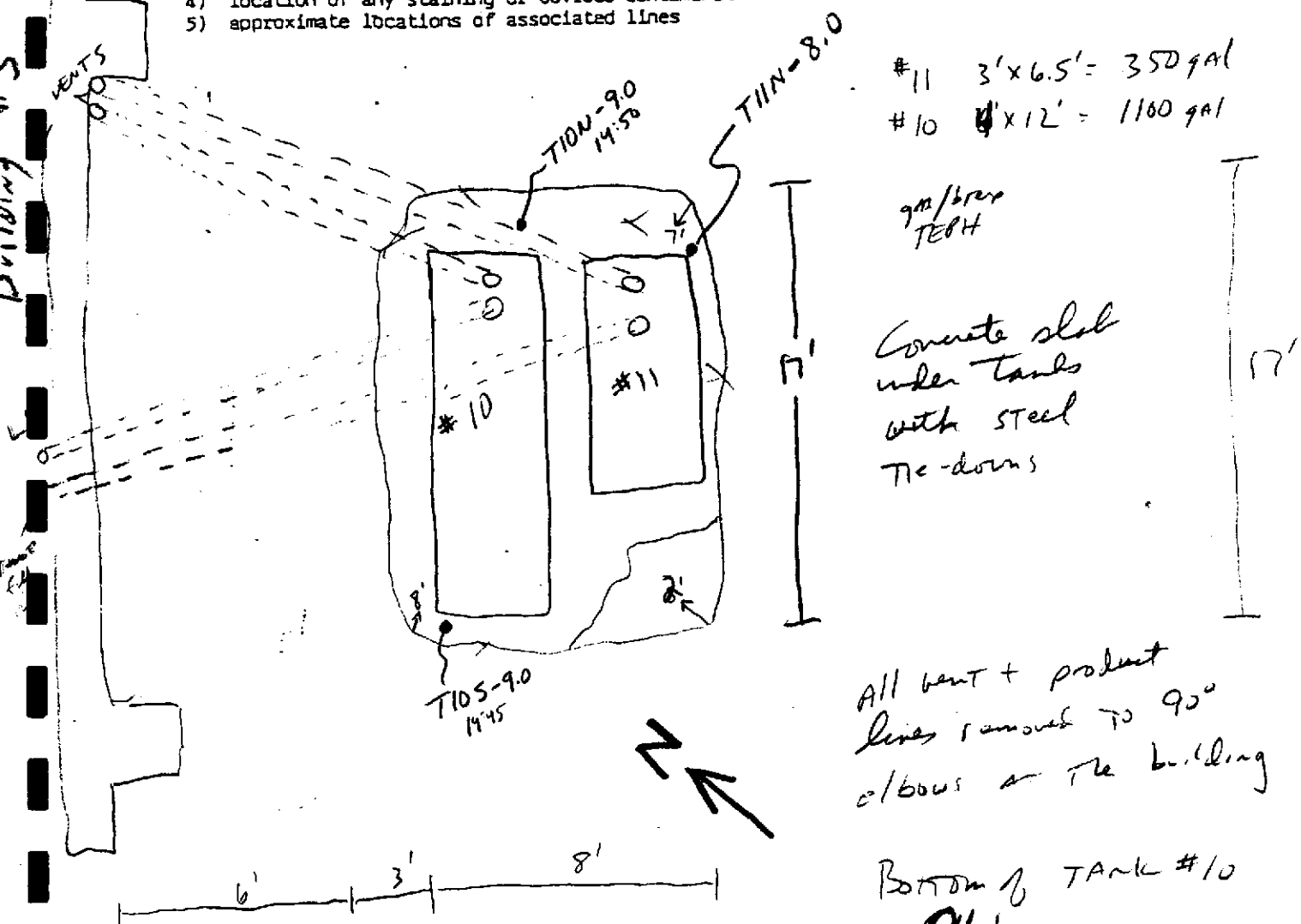
Sheet 1 of 3
 Job No. 6442-001
 Date 9/5/97
 Completed by DRD

Project MSC TANK Pull TANK #10
1000 - lube oil

TANK #11
500-gallon Waste Oil.

I. TANK EXCAVATION - PLAN VIEW SKETCH, including:

- 1) excavation dimensions (width, length, and depth below grade)
- 2) tank location(s) within excavation (assign ID numbers to tanks)
- 3) sample numbers, location, and depth (either below tank invert or below ground level)
- 4) location of any staining or obvious contamination
- 5) approximate locations of associated lines



* If spoils pile materials are sampled, include excavation and approximate spoils pile location with spoils pile sample location(s).

UNDERGROUND TANK REMOVAL FORM

Sheet 2 of 3
Job No. _____

II. TANK EXCAVATION DATA - SUBSURFACE CONDITIONS

- A. Sketch of excavation wall(s) which contain staining or discoloration, including:
- 1) orientation of sketch/cross section
 - 2) location and extent of visual contamination
 - 3) relation between stain and tank locations (i.e., beneath tank end seam)
 - 4) approximate dimensions
 - 5) any lithologic, stratigraphic, structural, or moisture information

TANKS oriented SW - NE
medium poorly sorted SAND backfill
NATIVE soil looks like clay/silt/gravel fill
yellow brown - brown

Very minor amounts of STAINED soil - could be organic rich clay

- B. Description of tank backfill material (noting lithology, moisture, odor, vapor meter reading, etc.):

SAND, MOIST, NO odor or discoloration

- C. If applicable, depth to water within excavation and water description, noting any odors, films, or sheens:

NO WATER encountered, no odor, AND very little soil discoloration noted, less than 1 ft

- D. Description of soil and water sampling method and procedure:

4 point composite collected at 4 compass points
Two high 2 low

UNDERGROUND TANK REMOVAL FORM

Sheet 3 of 3

Job No. _____

Date 9/5/97

Completed by A. DeMent

Project _____

III. TANK CONSTRUCTION INFORMATION: Tank I.D. No. 10 (as shown in Section I)

- Constituents stored: Lube oil (10) Waste oil (#11)

- Tank capacity: _____

- Age of tank: 37 yrs Length: _____ Diameter: _____

- Circle below: _____

Wall construction type: single wall double walls

Construction material: steel fiberglass

Protective outer coating: resin, fiberglass, none, other TAR WRAP

- Cathodic protective device used? no yes unknown

- Overfill protective device used? no yes unknown

remote hot fill inside building

- Total number of bungs: Circle below number and type of bungs present:

1 2 3 fill bung(s)

1 2 3 extractor bung(s) (foot-valve/float-valve/pump)

1 2 3 vent (or vapor return) bung(s)

1 2 3 double wall monitor bung

1 2 3 gauging bung

10 11 other _____

- Date of last tank integrity test: _____

- Type of integrity test (circle one): Petra-Zite, Hunter Leak Lokator, ~~Horner~~ ^{ELW} Check, Other _____

- Historical leaks or inventory discrepancy? _____

IV. PHYSICAL CONDITION OF TANK

Include sketch or sketches of tank below, identifying:

1) Orientation of sketch(es) with respect to original position in excavation (see Section I)

2) Locations and type of bungs, specifically the fill bung

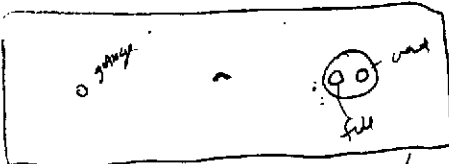
3) Locations (by letter) of tank deterioration with cross-indexed descriptions

Note: walls - pitting? scaling? corrosion? holes? cracking? fractures? staining? discoloration?

Tank End Seams - split? cracked? bent? stained?

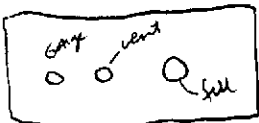
Tank bungs - condition of seam between bung and wall? cracking? staining? etc.

*TAR WRAP, RUSTING AROUND CONNECTIONS
Hole ripped in #11 during construction when
fill pipe ripped off*



Rusting where TAR WRAP deteriorated

*Piping, PLASTIC COATED + Taped, good condition
short pipe runs 8-11'*



Symbol Identifying
Location of
Surface Features

Description of Physical Conditions

white - env. health
 yellow - facility
 pink - files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

1131 Harbor Bay Pkwy
 Alameda CA 94502
 510/567-6700

Hazardous Materials Inspection Form

II, III

Site ID # _____ Site Name Municipal Service Center Today's Date 9/15/97
 Site Address 7101 Edgewater Lane
 City Oak Zip 94621 Phone _____

MAX AMT stored > 500 lbs, 55 gal., 200 cft.?

Inspection Categories:

- _____ I. Haz. Mat/Waste GENERATOR/TRANSPORTER
- _____ II. Hazardous Materials Business Plan, Acutely Hazardous Materials
- III. Under ground Storage Tanks

P. 1

* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

Comments:

Witness removal of 2 - single walled steel USTs.

1K kerosene oil (#10) - 0 LEL 3.8 02

500 gallon waste oil (#11) - 2 LEL ~4 02

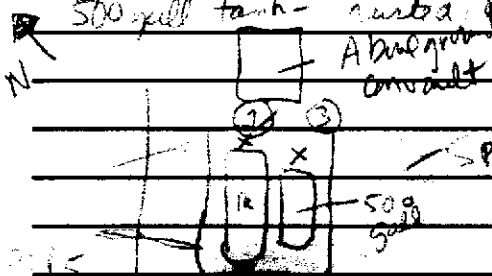
TPE - Contractor, M Hersh - City of Oak, P. Rement-Ace

S. Crawford OFD present

Pexanna - tank hauler

1K tank rusted, wrapping deteriorated, no obvious holes other than that made when inches detached from tank

500 gall tank - rusted, wrapping gone, no obvious hole, except where strap was pulled off



- Concrete slab exist below tanks
 - soils are gravelly sand

at west side of 1K tank @ floor level

soil was moist gravel, silty clay - no odor

Site 2 - @ east end of slab, black moist gravelly silt no odors

Site 3 - @ east end of 500 gallon tank (filled) - black moist gravel, silt - no odors

II, III

Contact _____
 Title _____
 Signature _____

Inspector B. CHAN
 Signature _____

[Faint handwritten notes and signatures at the bottom of the page]

CHROMALAB, INC.

Environmental Services (SDB) (DOHS 1094)

SURM #: 9709093 REP: PM
 CLIENT: ACC
 DUE: 09/09/97 TO 09/12/97
 REF #: 35375

Chain of Custody

DATE 9/5/97 PAGE 1 OF 1

ANALYSIS REPORT

PROJ. MGR David Demant
 COMPANY ACC Environmental Consultants
 ADDRESS 7977 Capwell Dr, Suite 100
Oakland, CA 94621
 SAMPLERS (SIGNATURE) _____ (PHONE NO.) (510) 638-8400
 _____ (FAX NO.) (510) 638-8404

SAMPLE ID.	DATE	TIME	MATRIX	PRESERV.
T10N-9.0	9/5/97	14:50	Soil	Cold
T10S-9.0	↓	14:45	↓	↓
T11N-8.0	↓	14:55	↓	↓
SP2(A-D)	↓	11:30	↓	↓

TPH - Gasoline (EPA 5030, 8015)	TPH - Gasoline (5030, 8015) w/BTEX (EPA 602, 8020)	TPH - Diesel (TEPH) (EPA 3510/3550, 8015)	PURGEABLE AROMATICS BTEX (EPA 602, 8020)	PURGEABLE HALOCARBONS (EPA 601, 8010)	VOLATILE ORGANICS (EPA 624, 8240, 524.2)	BASE/NEUTRALS, ACIDS (EPA 625/627, 8270, 525)	TOTAL OIL & GREASE (EPA 5520, B+F, E-F)	PCB (EPA 608, 8080)	PESTICIDES (EPA 608, 8080)	TOTAL RECOVERABLE HYDROCARBONS (EPA 418.1)	LUFT METALS: Cd, Cr, Pb, Zn, Ni	CAM METALS (17)	PRIORITY POLLUTANT METALS (13)	TOTAL LEAD	EXTRACTION (TCLP, STLC)	NUMBER OF CONTAINERS
X	X	X	X	X	X	X	X	X	X	X						1
X	X	X	X	X	X	X	X	X	X	X						1
X	X	X	X	X	X	X	X	X	X	X					X	1

RUSH

↑
48 hr TAT

PROJECT INFORMATION		SAMPLE RECEIPT							
PROJECT NAME <u>OAKLAND MSC</u>	TOTAL NO. OF CONTAINERS <u>7</u>	HEAD SPACE	REC'D GOOD CONDITION/COLD						
PROJECT NUMBER <u>97-6441-001.00</u>	CONFORMS TO RECORD	SPECIAL INSTRUCTIONS/COMMENTS: <u>*Run TEPH on all 4 soil samples on 48 hr TAT, 5 day on others. Please fax TEPH results ASAP</u>							
P.O. # <u>6441-1.0</u>	<table border="1"> <tr> <td>TAT</td> <td>STANDARD 5-DAY</td> <td>24</td> <td>48</td> <td>72</td> <td>OTHER</td> </tr> </table>			TAT	STANDARD 5-DAY	24	48	72	OTHER
TAT	STANDARD 5-DAY	24	48	72	OTHER				

RELINQUISHED BY 1	RELINQUISHED BY 2	RELINQUISHED BY 3
<u>David Demant</u> 15:45 (SIGNATURE) (TIME) <u>David A. Demant</u> 9/5 (PRINTED NAME) (DATE) <u>ACC Environmental</u> (COMPANY)	<u>[Signature]</u> 17:00 (SIGNATURE) (TIME) <u>F. Monette</u> 9-5 (PRINTED NAME) (DATE) <u>e/c</u> (COMPANY)	<u>[Signature]</u> (SIGNATURE) (TIME) <u>[Signature]</u> 9/5/97 (PRINTED NAME) (DATE) <u>Chromalab</u> (LAB)
<u>[Signature]</u> 15:45 (SIGNATURE) (TIME) <u>F. Monette</u> 9/5 (PRINTED NAME) (DATE) <u>e/c</u> (COMPANY)	<u>[Signature]</u> (SIGNATURE) (TIME) <u>[Signature]</u> 9/5/97 (PRINTED NAME) (DATE) <u>Chromalab</u> (LAB)	

CHROMALAB, INC.

Environmental Services (SDB)

September 13, 1997

Submission #: 9709093

ACC ENVIRONMENTAL CONSULTANTS

Atten: David DeMent

Project: OAKLAND MSC

Project#: 97-6442-001.00

Received: September 5, 1997

re: One sample for Gasoline BTEX analysis.

Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: T11N-8.0

Spl#: 146498

Matrix: SOIL

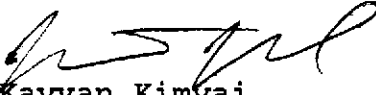
Sampled: September 5, 1997

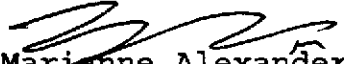
Run#: 8613

Analyzed: September 11, 1997

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	N.D.	1.0	N.D.	104	1
BENZENE	N.D.	0.0050	N.D.	90	1
TOLUENE	N.D.	0.0050	N.D.	89	1
ETHYL BENZENE	N.D.	0.0050	N.D.	88	1
XYLENES	N.D.	0.0050	N.D.	83	1

Note: Surrogate Recoveries demonstrate Matrix interference.


Kayvan Kimyai
Chemist


Marianne Alexander
Gas/BTEX Supervisor

CHROMALAB, INC.

Environmental Services (SDB)

September 13, 1997

Submission #: 9709093

ACC ENVIRONMENTAL CONSULTANTS

Atten: David DeMent

Project: OAKLAND MSC
Received: September 5, 1997

Project#: 97-6442-001.00

re: One sample for Gasoline BTEX analysis.
Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: T10N-9.0


Spl#: 146496 Matrix: SOIL
Sampled: September 5, 1997 Run#: 8613

Analyzed: September 11, 1997

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	N.D.	1.0	N.D.	104	1
BENZENE	N.D.	0.0050	N.D.	90	1
TOLUENE	N.D.	0.0050	N.D.	89	1
ETHYL BENZENE	N.D.	0.0050	N.D.	88	1
XYLENES	N.D.	0.0050	N.D.	83	1

Note: Surrogate Recoveries demonstrate Matrix interference.


Kayvan Kimyai
Chemist


Marianne Alexander
Gas/BTEX Supervisor

CHROMALAB, INC.

Environmental Services (SDB)

September 13, 1997

Submission #: 9709093

ACC ENVIRONMENTAL CONSULTANTS

Atten: David DeMent

Project: OAKLAND MSC

Project#: 97-6442-001.00

Received: September 5, 1997

re: One sample for Gasoline BTEX analysis.
Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: T10S-9.0

Spl#: 146497

Matrix: SOIL


Sampled: September 5, 1997

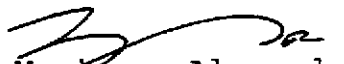
Run#: 8613

Analyzed: September 11, 1997

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	N.D.	1.0	N.D.	104	1
BENZENE	N.D.	0.0050	N.D.	90	1
TOLUENE	N.D.	0.0050	N.D.	89	1
ETHYL BENZENE	N.D.	0.0050	N.D.	88	1
XYLENES	N.D.	0.0050	N.D.	83	1

Note: Surrogate Recoveries demonstrate Matrix interference.


Kayvan Kimyai
Chemist


Marianne Alexander
Gas/BTEX Supervisor

CHROMALAB, INC.

Environmental Services (SDB)

September 13, 1997

Submission #: 9709093

ACC ENVIRONMENTAL CONSULTANTS

Atten: David DeMent

Project: OAKLAND MSC
Received: September 5, 1997

Project#: 97-6442-001.00

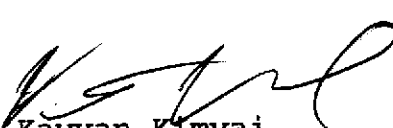
re: One sample for Gasoline BTEX analysis.
Method: SW846 8020A Nov 1990 / 8015Mod


Client Sample ID: SP1-(A-D)

Spl#: 146499 Matrix: SOIL
Sampled: September 5, 1997 Run#: 8613

Analyzed: September 12, 1997

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	N.D.	1.0	N.D.	104	1
BENZENE	N.D.	0.0050	N.D.	90	1
TOLUENE	N.D.	0.0050	N.D.	89	1
ETHYL BENZENE	N.D.	0.0050	N.D.	88	1
XYLENES	N.D.	0.0050	N.D.	83	1


Kayvan Kimyai
Chemist


Marianne Alexander
Gas/BTEX Supervisor

510-638-8404

1220 Quarry Lane • Pleasanton, California 94566-4756
(510) 484-1919 • Facsimile (510) 484-1096
Federal ID #68-0140157

PM V132 O: BTEXQC0221
VINCE 14:25

CHROMALAB, INC.

Environmental Services (SDB)

September 9, 1997

Submission #: 9709093

ACC ENVIRONMENTAL CONSULTANTS

Atten: David DeMent

Project: OAKLAND MSC
Received: September 5, 1997

Project#: 97-6442-001.00

re: 4 samples for TEPH analysis.
Method: EPA 8015M


Matrix: SOIL
Sampled: September 5, 1997 Run#: 8517


Extracted: September 8, 1997
Analyzed: September 8, 1997

Spl#	CLIENT SPL ID	Kerosene (mg/Kg)	Diesel (mg/Kg)	Motor Oil (mg/Kg)
146492	T10N-9.0	N.D.	N.D.	N.D.
146493	T10S-9.0	N.D.	1.1	N.D.
146494	T11N-8.0	N.D.	N.D.	N.D.
146495	SP1-(A-D)	N.D.	19	69

Note: Hydrocarbon reported as Diesel is in the late Diesel range and does not match our Diesel standard.

Reporting Limits	1.0	1.0	50
Blank Result		N.D.	
Blank Spike Result (%)	--	90.2	--


Bruce Havlik
Chemist


Alex Tam
Semivolatiles Supervisor

CHROMALAB, INC.

Environmental Service (SDB)

Sample Receipt Checklist

Client Name: ACC ENVIRONMENTAL CONSULTANTS Date/Time Received: 09/05/97 | 1545
Reference/Submis: 35375 | 9709093 Received by: PM
Checklist completed by: Chris Rowley 9/8/97 Signature Date Reviewed by: _____ Initials | Date
Matrix: Soil Carrier name: Client - C/L

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Temp: 6.3 °C Yes No
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - pH acceptable upon receipt? _____ Adjusted? _____ Checked by _____ chemist for VOAs

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted: _____ Date contacted: _____ Person contacted: _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action: _____

SEP 18 '97 16:18 FROM ERICKSON
TELEPHONE
510-255-1993

PAGE .003

CERTIFIED SERVICES COMPANY

265 Parr Boulevard - Richmond, California 94801

CUSTOMER TANK PROTECT E
JOB NO. 70945

FOR: ERICKSON, INC. TANK NO. 20923

LOCATION: RICHMOND DATE: 97/09/17 TIME: 15:16

TEST METHOD VISUAL CASTECH/1314 SVEN LAST PRODUCT NO

This is to certify that I have personally determined that this tank is in accordance with the American Petroleum Institute and have found the condition to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

TANK SIZE 1000 GALLON TANK CONDITION SAFE FOR FIRE

REMARKS: OXYGEN 20.9% LOWER EXPLOSIVE LIMIT LESS THAN 0.1%
INC. HEREBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN
PROCESSED, AND THEREFORE DESTROYED AT OUR PERMITTED HAZARDOUS
WASTE FACILITY.
INC. HAS THE APPROPRIATE PERMITS FOR, AND HAS ACCEPTED THE TANK
TO BE FOR PROCESSING.

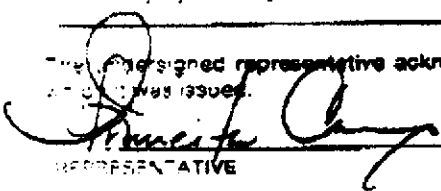
In the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, or if in any doubt, immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur.

STANDARD SAFETY DESIGNATION

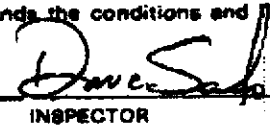
SAFE FOR MEN: Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within permissible concentrations; and (c) In the judgment of the Inspector, the residues are not capable of producing toxic materials under existing atmospheric conditions which maintained as directed on the Inspector's certificate.

SAFE FOR FIRE: Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below 10 percent of the lower explosive limit; and that (b) In the judgment of the Inspector, the residues are not capable of producing a higher concentration that permitted under existing atmospheric conditions in the presence of fire and while maintained as directed on the Inspector's certificate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the Inspector.

The undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued.


REPRESENTATIVE

TITLE


INSPECTOR

SEP 18 '97 16:18
DAY OR NIGHT
TELEPHONE
FAX: 215-1393

FROM ERICKSON

PAGE.002
NO. 25500

CERTIFICATE

CERTIFIED SERVICES COMPANY

255 Parr Boulevard • Richmond, California 94801

CUSTOMER
TANK PROTECT E
JOB NO.
170945

FOR: ERICKSON, INC. TANK NO. 20926

LOCATION: RICHMOND DATE: 97/09/17 TIME: 16:16

TEST METHOD VISUAL GASTECH/1014 SMPN LAST PRODUCT UG

This is to certify that I have personally determined that this tank is in accordance with the American Petroleum Institute and have found the condition to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

TANK SIZE 600 GALLON TANK CONDITION SAFE FOR FIRE

REMARKS: OXYGEN 20.9% LOWER EXPLOSIVE LIMIT LESS THAN 0.1%
ERICKSON, INC. HEREBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN
PROCESSED, AND THEREFORE DESTROYED AT OUR PERMITTED HAZARDOUS
WASTE FACILITY.
ERICKSON, INC. HAS THE APPROPRIATE PERMITS FOR, AND HAS ACCEPTED THE TANK
TO US FOR PROCESSING.

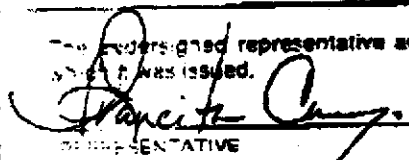
In the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, or if in any doubt, immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur.

STANDARD SAFETY DESIGNATION

SAFE FOR MEN: Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within permissible concentrations; and (c) In the judgment of the Inspector, the residues are not capable of producing toxic materials under existing atmospheric conditions which maintained as directed on the Inspector's certificate.

SAFE FOR FIRE: Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below 10 percent of the lower explosive limit; and that (b) in the judgment of the Inspector, the residues are not capable of producing a higher concentration than permitted under existing atmospheric conditions in the presence of fire and while maintained as directed on the Inspector's certificate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the Inspector.

The undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued.


REPRESENTATIVE

TITLE


INSPECTOR

SEP 18 '97 16:19 FROM ERICKSON

PAGE 004
is not required by Federal law.
FILE

UNIFORM HAZARDOUS WASTE MANIFEST

CAD981424609 011161

Generator's Name and Mailing Address
City of Oakland
7101 Edgewater Drive - Oakland, Calif.

Generator's Phone (510) 615-5515 94621

Transporter 1 Company Name DENANNA
US EPA ID Number CAD982438566

Transporter 2 Company Name
US EPA ID Number

Generator Facility Name and Site Address
ERICKSON, INC.
255 PARR BLVD.

RICHMOND, CA 94801
US EPA ID Number CAD009466392

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Container		13. Total Quantity	14. Unit Wt/Kil
	No.	Type		
NON-RCRA HAZARDOUS WASTE SOLID WASTE EMPTY STORAGE TANK	002	T P	01400	P

12. Special Handling Instructions and Additional Information
KEEP AWAY FROM SOURCES OF IGNITION. ALWAYS WEAR HARDHATS WHEN WORKING AROUND UGSI'S
Site Location: 7101 Edgewater Drive
Oakland, California
OE Job#

EMERGENCY RESPONSE CONTACT
Jeffery Krohn
EMERGENCY RESPONSE PHONE
(510) 615-5515

13. OPERATOR'S CERTIFICATION: I hereby declare that the contents of this manifest 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 risks 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 used the best waste management method that is available to me and that I can afford.

Signature: Jeff Krohn
Printed/Typed Name: Jeff Krohn
Month Day Year: 09/05/97

Signature: James P. Cox
Printed/Typed Name: James P. Cox
Month Day Year: 09/05/97

Signature: Karen Ruffin
Printed/Typed Name: Karen Ruffin
Month Day Year: 09/05/97

19. Obsolete/Ineligible Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest and reported to them.
Signature: Karen Ruffin
Printed/Typed Name: Karen Ruffin
Month Day Year: 09/05/97

DO NOT WRITE BELOW THIS LINE

Write: TSD of 3006 THIS COPY TO DISC WITHIN 30 DAYS.
To: P.O. Box 3000, Sacramento, CA 95812

96412561
IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-472-8802. WITHIN CALIFORNIA CALL 1-800-852-7550

Photos of the Underground Storage Tank (UST) Removal at the City of Oakland
Municipal Service Center.



a. Tank Protect Personnel began excavating UST #10, waste oil tank and UST#11, lube oil tank.



b. The vent/fuel lines are being prepared for removal.

Photo Log Continued



c. Vent/fuel lines removal commenced.



d. The atmospheres of the USTs are being inerted with carbon dioxide.

Photo Log Continued



e. The removal of the USTs commenced.



f. UST#11 was removed from the excavation area and staged for inspection by City and County Officials.

Photo Log Continued.



g. UST #11 is being staged for transportation and disposal.



h. UST#10 is staged for inspection by City and County Officials.

Photo Log Continued.



i. UST #10 is staged for transportation and disposal.



j. The removal of the USTs are completed. Soil samples were collected from a random location with the backhoe.