



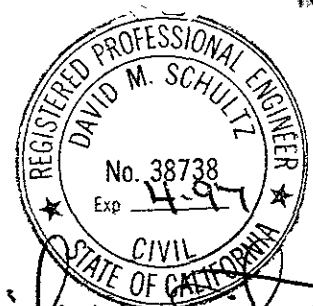
October 21, 1996

PROJECT REPORT
UNDERGROUND STORAGE TANK REMOVAL
(ASE JOB NO. 2991)

for

Geo M. Martin Company
1250 67th Street
Emeryville, California

ENVIRONMENTAL
PROTECTION
96 OCT 22 PM 2:32



Submitted by:

Aqua Science Engineers
2411 Old Crow Canyon Road, #4
San Ramon, California 94583
(510) 820-9391

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1.0 INTRODUCTION

This report documents the removal, disposal and related activities of the underground storage tank (UST) closure performed at the 1308 67th Street in Emeryville, California (Figure 1). The following UST was removed from the site (Figure 2):

<u>QUANTITY</u>	<u>TYPE AND SIZE UST</u>	<u>FORMER CONTENTS</u>
1	Steel, 700 gallon	Diesel

The scope of services provided by Aqua Science Engineers, Inc. (ASE), were conducted on behalf of the property owner, Geo M. Martin Company, in accordance with ASE proposal No. 96-115 and included the following tasks:

- o Preparing a health and safety plan.
- o Obtaining permits from appropriate agencies.
- o Removing and disposing of liquids from the UST.
- o Removing and disposing of the UST and piping.
- o Sampling and analyzing the soil beneath the UST.
- o Offhaul and disposal of contaminated soil.
- o Backfilling and resurfacing the excavation.
- o Preparing this report of methods and findings.

2.0 PERMITS

Permits and approvals required to remove the UST were obtained by ASE from the City of Emeryville Fire Department (EFD), the Alameda County Health Care Services Agency (ACHCSA), CAL-OSHA, and the Bay Area Air Quality Management District (BAAQMD). Copies of these permits, application forms, and notification documents are contained in Appendix A.

3.0 MOBILIZATION

ASE mobilized for on-site activities on September 20, 1996. Field operations were conducted by trained technicians who are certified per the mandatory 40-hour safety program as specified in the OSHA Hazardous Waste Operations and Emergency Response Standard (29 CFR 1910.120). A tailgate safety meeting was conducted and the health and safety plan was signed by all field personnel. Personnel present during the activities included ASE Senior Project Manager David Allen, ASE Environmental Specialist Scott Ferriman, representative from Break Away Bobcat Service

(equipment and labor), Geo M. Martin personnel and Mr. Brian Oliva of the Alameda County Health Care Services Agency.

4.0 PRE-EXCAVATION ACTIVITIES

ASE staff began on-site activities on September 20, 1996 by removing the concrete on top of the UST. After the concrete was removed, ASE uncovered the UST to gain access for product evacuation and rinsing. The piping was cut at the excavation wall and capped at both ends.

5.0 LIQUID REMOVAL

Upon completion of the uncovering activities, the UST was pumped of residual fuel and then triple rinsed with tap water. A total of 650 gallons of rinsate and residual fuel was pumped from the UST and transported to the Alviso Oil facility in Alviso, CA under Hazardous Waste Manifest No. 95877508 by Waste Oil Recovery Services of Oakland, a licensed hazardous waste hauler (State Transporters ID #616066) on September 20, 1996. A copy of the manifest is attached in Appendix B.

6.0 TANK PREPARATION

The UST was made inert through the addition of 100 pounds of dry ice to the UST. The UST removal operations were witnessed by Mr. Brian Oliva of the ACHCSA. The Lower Explosive Limit (LEL) of the UST atmosphere was measured and found to be within the allowable range; therefore, approval for the UST removal was granted by Mr. Brian Oliva. Mr. George Warren of the EFD was unable to attend and witness the UST removal; he gave his authority for removal of the UST to Mr. Brian Oliva.

7.0 TANK REMOVAL OPERATIONS

On September 20, 1996, the UST was lifted from the excavation and placed on the edge of the excavation to allow the residual sludge to drain out of the UST. The UST contained many holes and its bottom was mostly rusted away. This sludge was placed on the stockpiled soil for future disposal. At this time the UST was inspected by ASE and the ACHCSA. Upon inspection of the UST, several holes were noted throughout the UST. The UST was then wrapped in plastic sheeting and loaded onto the transport vehicle.

The UST was transported to the Erickson, Inc. facility in Richmond, CA (a licensed recycling facility, No. CAD009466392) by Dexanna, Inc. (State Transporter's ID No. 602255) under Hazardous Waste Manifest No.

95269996 on September 20, 1996. See Appendix B for a copy of the manifest. Also see Appendix C for a copy of the Tank Disposal Certificate.

8.0 OVEREXCAVATION OF CONTAMINATED SOIL

ASE was prepared to remove accessible contaminated soil surrounding the UST. After the UST was removed and the soil sample was collected, ASE removed approximately 1 ton of contaminated soil and sludge which drained from the tank during removal. Overexcavation was limited horizontally and vertically due to the proximity of the brick building and sump. In total, 7.5 tons of petroleum-hydrocarbon contaminated soil was removed from the excavation. This material was stockpiled next to the excavation for future disposal. Groundwater was not observed in the UST excavation.

Depth of excavation?

9.0 SOIL SAMPLE COLLECTION AND CHEMICAL ANALYSES

On September 20, 1996 at the direction of Mr. Brian Oliva of the ACHCSA, ASE collected the following soil samples (see Figure 2).

TABLE ONE
SOIL SAMPLE LOCATIONS

<u>Sample Name</u>	<u>Location</u>	<u>Depth</u>
T1-5'	Southern End Bottom of Excavation	5' bgs
STKP(A-D)	Composite of Stockpile Soil	N/A

The soil sample collected at 5' below ground surface (bgs) was to assess the soil contamination, if any, below the bottom of the former UST. Based on the visual inspection and odor of the excavated soils, it was apparent that some degree of soil contamination existed in the soil adjacent to and below the UST. Excavation of soils deeper than 5' bgs was not considered due to the proximity of the building and sump adjacent to the excavation. Soil samples were collected from the native material which consisted of a brown and/or green, damp clay.

The soil samples were collected in brass sample tubes, covered on each end with teflon tape and plastic end caps, labeled, placed on ice and transported to Chromalab, Inc., of Pleasanton, CA (ELAP #1094) under chain of custody. The above-referenced samples were analyzed for total petroleum hydrocarbons as diesel (TPH-D) by EPA Method 3550/8015M, benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method

8020, halogenated volatile organics by EPA Method 8010, and LUFT 5 metals. Analytical results are shown below in Table Two; copies of laboratory data can be found in Appendix D.

TABLE TWO
SOIL SAMPLE RESULTS
All Results in Parts Per Million

Sample Name	TPH Diesel	Benzene	Toluene	Ethyl Benzene	Total Xylenes	HVOC's
From UST pit ← T1-5'	3,400	< 2.5	< 2.5	6.0	44	< 0.020-0.040
Removed from site STKP(A-D)	1,300	< 0.10	0.35	2.5	20	< 0.005-0.010
EPA METHOD	8015M	8020	8020	8020	8020	8010

Sample Name	Cadmium	Chromium	Lead	Nickel	Zinc
T1-5'	< 0.50	20	5.6	34	32
STKP(A-D)	< 0.50	23	26	34	100
EPA METHOD	6010	6010	6010	6010	6010

10.0 EXCAVATION BACKFILLING

On September 20, 1996, ASE backfilled and compacted the entire excavation with 12 tons of clean, imported, granular backfill material.

11.0 OFFHAUL AND DISPOSAL OF CONTAMINATED SOIL

On October 10, 1996, 7.5 tons of contaminated soil was transported and disposed at FORWARD, Inc., a California non-hazardous landfill under proper manifest. A copy of the manifest is attached in Appendix B.

12.0 CONCLUSIONS AND RECOMMENDATIONS

- * On September 20, 1996, one (1) 700 gallon diesel UST was removed from 1308 67th Street in Emeryville, CA and disposed of off site.
- * Contaminated soil around the UST was excavated, stockpiled and disposed of at FORWARD, Inc., a non-hazardous landfill.
- * The entire excavation was then backfilled with imported fill material and compacted.

- * Elevated concentrations of petroleum hydrocarbons as diesel and xylenes exist in the soil below the former UST. These concentrations typically warrant additional assessment activities per the guidelines set by the ACHCSA.

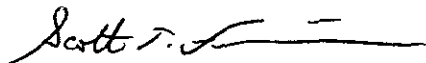
ASE recommends no further soil excavation or remedial activities related to the former underground storage tank. We recommend that a copy of this report be mailed to Ms. Amy Leech of the ACHCSA for further guidance from that agency.

13.0 REPORT LIMITATIONS

The results of this project represent conditions at the time and specific location at which samples were collected, and for the specific parameters analyzed by the laboratory. It does not fully characterize the site for contamination resulting from sources other than the former UST and associated piping at the site, or for parameters not analyzed for by the laboratory. All of the laboratory work cited in this report was prepared under the direction of independent CA-DHS certified laboratory. The independent laboratory is solely responsible for the contents and conclusions of the chemical analysis data.

ASE appreciates the opportunity to assist with the environmental needs of this property. Should questions or comments arise, please feel free to give us a call at (510) 820-9391.

Respectfully submitted,
AQUA SCIENCE ENGINEERS, INC.

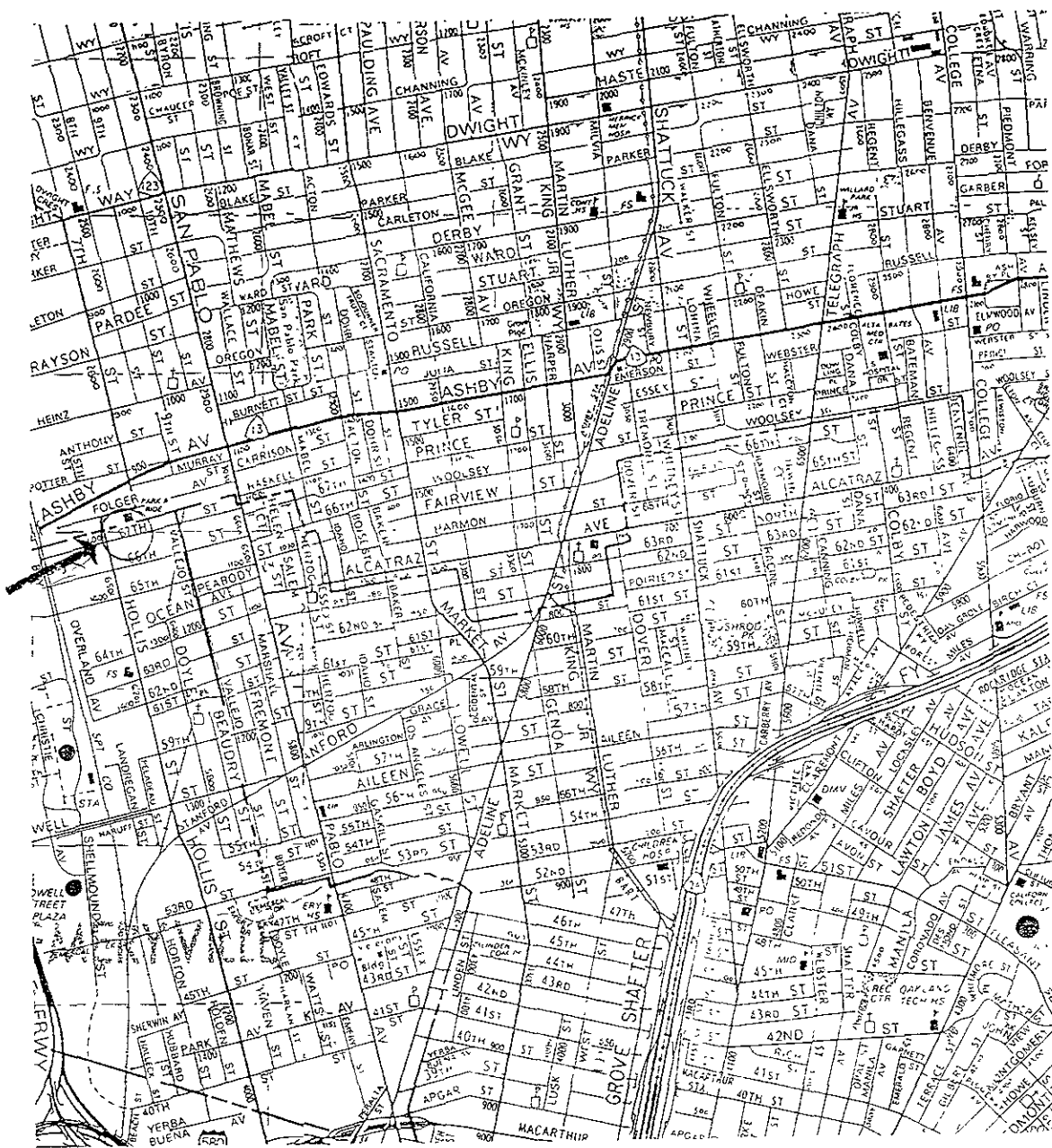


Scott Ferriman
Environmental Specialist

Enclosures: Figure 1 - Site Location Map
Figure 2 - Site & Sampling Plan
Appendices A - D

copies to: Mr. Kevin Graves, S.F. Bay Regional Water Quality Control Board
Ms. Amy Leech, Alameda County Health Care Services Agency

FIGURES



SITE LOCATION MAP

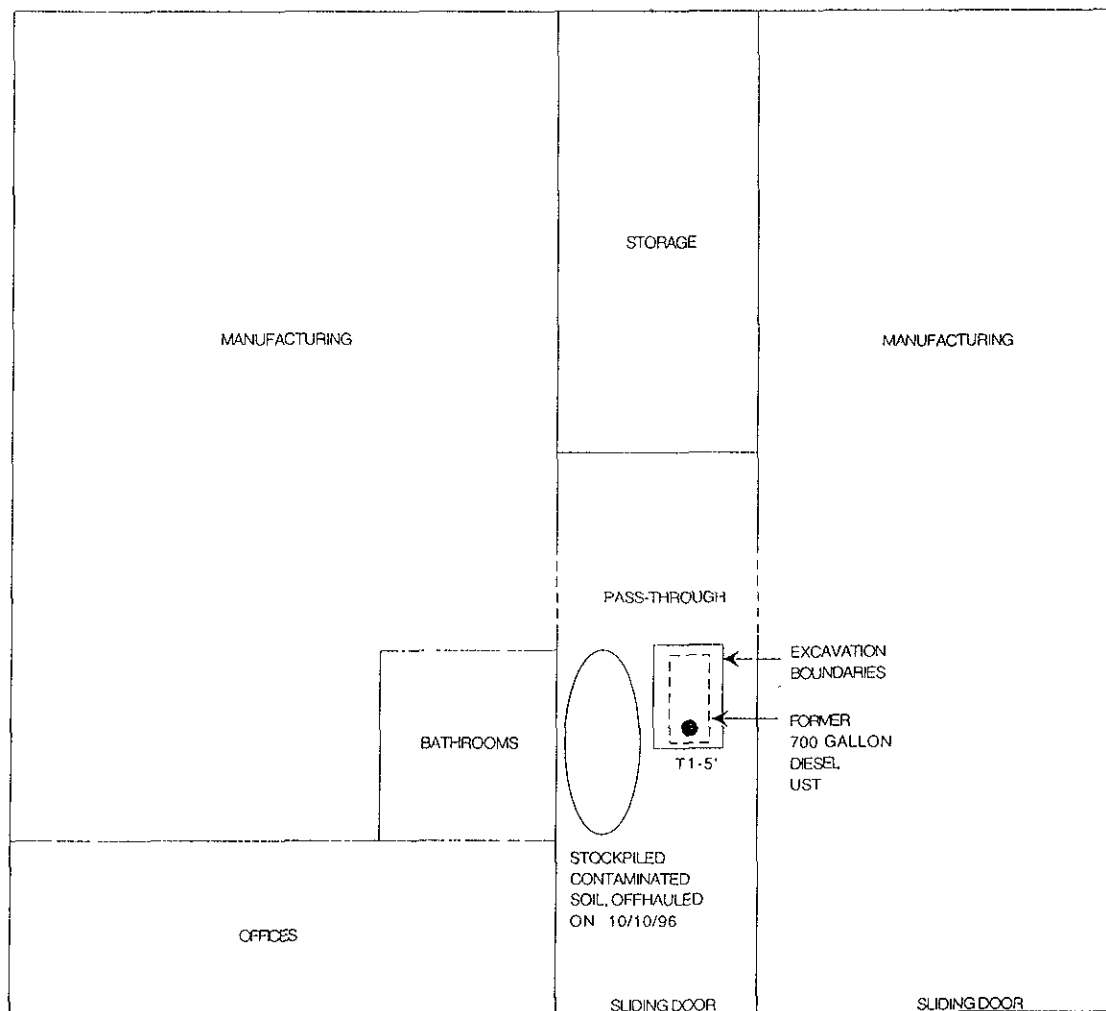
GEO M. MARTIN COMPANY
1308 67th STREET
EMERYVILLE, CALIFORNIA

Aqua Science Engineers



NORTH

Scale: 1" = 20'



67TH STREET

EXPLANATION

T1-5'



SOIL SAMPLE LOCATION



FORMER UNDERGROUND STORAGE TANK

SITE & SAMPLING PLAN

GEO. M. MARTIN COMPANY
1308 67TH STREET
EMERYVILLE, CALIFORNIA

Aqua Science Engineers, Inc. | Figure 2

APPENDIX A
PERMITS

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 # 510/337-9335

SUSAN L. HUGO
 Project Specialist

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 plans 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 for construction/destruction.

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 Inspections 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 required 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:

Susan L. Hugo
6/20/96

UNDERGROUND TANK CLOSURE PLAN

*** Complete according to attached instructions ***

1. Name of Business Geo M. Martin Company
 Business Owner or Contact Person (PRINT) David Goodearl
2. Site Address 1308 Sixty Seventh Street
 city Emeryville zip 94608 Phone 652-2200
3. Mailing Address 1250 Sixty Seventh Street
 city Emeryville zip 94608 Phone 652-2200
4. Property Owner Geo. M. Martin Company
 Business Name (if applicable) _____
 Address 1250 Sixty-Seventh St.
 City, State Emeryville, CA ~~94608~~ zip 94608
5. Generator name under which tank will be manifested
Geo. M. Martin Company

EPA ID# under which tank will be manifested CA 001074856

will have within 90 days of removal.

6. Contractor Aqua Science Engineers, Inc.
Address 2411 Old Crow Canyon Rd, # 4
City San Ramon Phone 510-820-9391
License Type* Class A Haz ID# 487000

*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) Sec # 6
Address _____
City, State _____ Phone _____

8. Main Contact Person for Investigation (if applicable)
Name Scott Ferriman Title Environmental Specialist
Company ASE, Inc.
Phone 510-820-9391

9. Number of underground tanks being closed with this plan 1
Length of piping being removed under this plan 20'
Total number of underground tanks at this facility (**confirmed with owner or operator) 1

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 W.O.R.S. EPA I.D. No. CAD000626515
^{DeHS 843}
Hauler License No. CALPU0-106399 License Exp. Date 7/31/96
Address 6401 Leona Street
City Oakland State CA zip 94605

b) Product/Residual Sludge/Rinsate Disposal Site
Name Alviso Oil EPA ID# CAL000048571
Address 5001 Archer Street
City Alviso State CA zip 95002

c) Tank and Piping Transporter

Name Erickson Inc EPA I.D. No. CAD009466392
Hauler License No. 0019 License Exp. Date 7/96
Address 255 Parr Blvd
City Richmond state CA zip 94801

d) Tank and Piping Disposal Site

Name Erickson Inc EPA I.D. No. CAD009466392
Address as above
City _____ State _____ Zip _____

11. Sample Collector

Name Scott Ferriman
Company Aqua Science Engineers, Inc.
Address 2411 Old Crow Canyon Rd, #4
City San Ramon state CA zip 94583 Phone 510-820-9391

12. Laboratory

Name Curtis and Tompkin, LTD.
Address 2323 Fifth Street
City Berkeley state CA zip 94710
State Certification No. ELAP # 1459

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

If yes, describe. _____

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

Dry Ice at 25#/1000 gal. of UST volume

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)		
1-300 gallons	Contents is Diesel Tank is a closed system pumped through meters for calibration purposes.	Soil and Groundwater if encountered	one (1) sample under UST. one (1) sample in pipe Trench. one (1) sample in meter area.

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
20 yards.	1- four point composite and analyzed for land fill requirements.

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 [X] 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
Soil Diesel BTEX	3550/8015 M 5030	8015 M 8020	1.0 ppm 50 ppb.
Groundwater Diesel BTEX	3510 5030	8015 M 8020	is not anticipated, if encountered parameters will be met. 50 ppb 0.5 ppb

18. Submit Worker's Compensation Certificate copy

Name of Insurer Superior National Insurance

19. 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 INFORMATION

Name of Business Aqua Science Engineers Inc.

Name of Individual Scott Ferriman

Signature Scott Ferriman Date 4-29-96

PROPERTY OWNER OR MOST RECENT TANK OPERATOR (Circle one)

Name of Business Geo. M. March Company

Name of Individual David Goodcarl

Signature David Goodcarl Date 4-29-96

<p>CITY OF EMERYVILLE FIRE DEPARTMENT 6303 HOLLIS STREET EMERYVILLE, CA, 94608 (510) 596-3750</p>	<p>FIRE DEPARTMENT USE ONLY</p> <p>FPB-996-1308 (PERMIT NUMBER)</p>
APPLICATION AND PERMIT	Application Received : Date: <u>9/13/96</u> Signed: <u>JW</u>
THIS APPLICATION IS YOUR PERMIT WHEN PROPERLY FILLED OUT, SIGNED, VALIDATED AND FEES PAID.	Permit Issued: Date: <u>9/13/96</u> Signed: <u>JW</u>
ADDRESS: <u>1308 67th Street</u>	EFD Permit Type(s) (see reverse) <u>FL-UGST # 4</u>
BUSINESS NAME: <u>Geo M. Marbi Company</u>	Expiration Date : <u>6 mos. From DATE OF ISSUE</u>
CONTACT PERSON: <u>David Goodearl</u>	TOTAL FEES DUE: \$125.00/TANK
TELEPHONE NUMBER: <u>652-2200</u>	MAKE CHECK PAYABLE TO THE CITY OF EMERYVILLE.
DESCRIPTION OF OPERATION: <u>UST Removal</u> <u>within Bld.</u>	FEES ARE ESTABLISHED THRU THE CITY OF EMERYVILLE MASTER FEE SCHEDULE ADOPTED JUNE 1, 1993. COPY AVAILABLE ON REQUEST.
APPLICANT READ AND SIGN BELOW.	Occupancy Group/Division (per UBC Table 5A) B2
<p>I CERTIFY THAT I HAVE READ THIS APPLICATION AND STATE THAT THE INFORMATION GIVEN IS TRUE AND CORRECT. I AGREE TO COMPLY WITH ALL LOCAL ORDINANCES AND STATE LAWS THAT RELATE TO THIS PERMIT. I HEREBY AUTHORIZE REPRESENTATIVES OF THE CITY TO ENTER UPON THE ABOVE MENTIONED PROPERTY TO VERIFY COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT, AT ANY REASONABLE TIME.</p> <p><input type="checkbox"/> Building Owner : <u>Scott J. Lin grant for</u> <input type="checkbox"/> Business Operator : <u>David Goodearl</u> Date of Application : <u>Geo M. Marbi Co.</u></p>	<p>OCCUPANCY TYPE:</p> <p>Commercial <input type="checkbox"/> Assembly <input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Educational <input type="checkbox"/> Residential <input type="checkbox"/> H-class <input type="checkbox"/> Other <input type="checkbox"/> Specify: _____</p>
THIS PERMIT MUST BE AVAILABLE FOR INSPECTION AT ALL TIMES	

REVOCATION OF PERMIT

THE CHIEF IS AUTHORIZED TO SUSPEND/REVOKE A PERMIT WHEN THE CHIEF HAS DETERMINED THAT SECTION 4.107, 1991 UFC HAS BEEN VIOLATED.

POSTING OF PERMIT

PERMIT(S) SHALL BE KEPT ON THE PREMISES DESIGNATED AT ALL TIMES AND SHALL BE AVAILABLE FOR INSPECTION AT ANY TIME BY ANY PERSON(S) WHO ARE AUTHORIZED BY THE CHIEF OF THE EMERYVILLE FIRE DEPARTMENT

DATE	INSPECTION NOTES/COMMENTS	INSPECTOR
9/13/96	permit issued to applicant pull scheduled for 9/20/96, approx. 11400 hrs. check # 17992 C of E Fin. Cash rept # 31142	JW

ACTIVITY NOTIFICATION FORM

Buildings Structures Scaffolding Falsework Demolition Trenches Excavations

Company Name: <u>Agua Science Engineers Inc</u>	Field Phone: <u>510-409-3536</u>
Permit Number: <u>96-900642</u>	Office Phone: <u>510-820-9391</u>
Specific Activity Location: <u>1308 Sixty Seventh Street</u> <small>Emeryville, CA</small>	Number of Employees: <u>4</u>
Nearest Major Cross Street: <u>Hollis Street</u>	Starting Date: 8-20-96 <u>September 1996</u>
City: <u>Emeryville</u>	Anticipated Completion Date: <u>1 day Job</u>
County: <u>Alameda</u>	High Voltage Lines in Proximity? No <input checked="" type="checkbox"/> Yes <input type="checkbox"/>

INSTRUCTIONS: The appropriate item(s) must be completed and signed by a person knowledgeable about the project for each activity covered by a permit. Please fill in or check off the blanks where appropriate.

Construction of: Building _____ Structure _____ Type: Steel Frame _____ Tiered _____ Concrete _____
 Tilt-up _____ Wood Frame _____ Liftslab _____ Precast _____ Slip Form _____ Depth _____ No. of Stories _____
 Description: _____

(See 8 CCR 1709-30: Appendix A Plate A-2-a & b.)

Scaffolding: Height _____ Metal _____ Wood _____ Wood over 60 Feet _____ Metal over 125 Feet _____
 *Metal > 125 Feet or Wood > 60 Feet requires design by California Registered Civil Engineer & Plans at Site. (See 8 CCR 1644(c)(7))
 Description: _____

Falsework/Vertical Shoring: Maximum Height _____ Maximum Span _____ Material _____
 Description: _____

(See 8 CCR 1717)

Demolition of: Building _____ Structure _____ Height _____ No of Stories _____ Type: Steel Frame _____
 Wood Frame _____ Concrete _____ Demolition Ball _____ Clam _____ Explosives _____
 Loader/Tractors _____ Other _____
 (See 8 CCR 1734-37)

Trenches/Excavation: Depth Range (Min/Max)* 6/8 ft Width Range (Min/Max) 6/10 ft Total Length 10'
 Ground Protection Method: Shoring _____ Sloping Trench Shield _____ Professional Engineer _____
 Underground Services Alert (USA) Number 257034 ~~To be determined~~ (NORTH 1-800-642-2444/SOUTH 1-800-422-4133)
 Soil Analysis to be done? Yes _____ No If No, You Must Slope 1.5 to 1.
 Description: UST Removal

(See 8 CCR 1504, 1540-1547)

* Ground protection methods for excavations deeper than 20 feet must be designed by a Registered Professional Engineer. See 8 CCR 1541.1, Appendix F.

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY YES NO HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? YES NO

FOR LOCAL AGENCY USE ONLY
I HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM.

REPORT DATE: 10/01/96 CASE #

SIGNED: _____ DATE: _____

REPORTED BY: NAME OF INDIVIDUAL FILING REPORT: Scott T. Ferriman PHONE: (510) 820-9291 SIGNATURE: [Signature]

REPRESENTING: OWNER/OPERATOR REGIONAL BOARD LOCAL AGENCY OTHER Consultant COMPANY OR AGENCY NAME: Agua Science Engineers, Inc.

ADDRESS: 2411 Old Cow Canyon Rd #4 STREET San Ramon CITY CA STATE 94583 ZIP

RESPONSIBLE PARTY: NAME: Geo M. Martin Co. UNKNOWN CONTACT PERSON: David Goodearl PHONE: (510) 652-2200

ADDRESS: 1250 67th Street STREET Emeryville CITY CA STATE 94608 ZIP

SITE LOCATION: FACILITY NAME (IF APPLICABLE): _____ OPERATOR: _____ PHONE: _____

ADDRESS: 1308 67th Street STREET Emeryville CITY CA COUNTY 94608 ZIP

CROSS STREET: Hollis Street

IMPLEMENTING AGENCIES: LOCAL AGENCY: Alameda County Health Agency AGENCY NAME: _____ CONTACT PERSON: Susan Hugo PHONE: (510) 567-6700

REGIONAL BOARD: San Francisco Bay Region CONTACT PERSON: Kevin Graves PHONE: (510) 286-1255

SUBSTANCES INVOLVED: (1) Diesel NAME QUANTITY LOST (GALLONS) UNKNOWN

(2) _____ UNKNOWN

DISCOVERY/ABATEMENT: DATE DISCOVERED: 09/20/96 HOW DISCOVERED: INVENTORY CONTROL SUBSURFACE MONITORING NUISANCE CONDITIONS TANK TEST TANK REMOVAL OTHER _____

DATE DISCHARGE BEGAN: _____ METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY): REMOVE CONTENTS CLOSE TANK & REMOVE REPAIR PIPING REPAIR TANK CLOSE TANK & FILL IN PLACE CHANGE PROCEDURE REPLACE TANK OTHER Excavated

HAS DISCHARGE BEEN STOPPED? YES NO IF YES, DATE: 09/20/96

SOURCE/CAUSE: SOURCE OF DISCHARGE: TANK LEAK UNKNOWN PIPING LEAK OTHER _____ CAUSE(S): OVERFILL RUPTURE/FAILURE SPILL CORROSION UNKNOWN OTHER _____

CASE TYPE: CHECK ONE ONLY UNDETERMINED SOIL ONLY GROUNDWATER DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)

CURRENT STATUS: CHECK ONE ONLY NO ACTION TAKEN PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED POLLUTION CHARACTERIZATION LEAK BEING CONFIRMED PRELIMINARY SITE ASSESSMENT UNDERWAY POST CLEANUP MONITORING IN PROGRESS REMEDIATION PLAN CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) CLEANUP UNDERWAY

REMEDIAL ACTION: CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS): EXCAVATE & DISPOSE (ED) REMOVE FREE PRODUCT (FP) ENHANCED BIO DEGRADATION (IT) CAP SITE (CD) EXCAVATE & TREAT (ET) PUMP & TREAT GROUNDWATER (GT) REPLACE SUPPLY (RS) CONTAINMENT BARRIER (CB) NO ACTION REQUIRED (NA) TREATMENT AT HOOKUP (HU) VENT SOIL (VS) VACUUM EXTRACT (VE) OTHER (OT) Possible site characterization Report

COMMENTS: UST Removal Report Submitted to Local Agency

APPENDIX B

HAZARDOUS & NON-HAZARDOUS WASTE MANIFESTS

95877508

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. HE 000074854771563		Manifest Document No. 1/1		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address (510) GEORGE M MARTIN COMPANY 652 2200 1250 67th ST EMERYVILLE CA 94608				A. State Manifest Document Number 338108		B. State Generator ID		C. State Transporter ID	
4. Generator's Phone ()				6. US EPA ID Number 3010000000000000		D. Transporter's phone		E. State Transporter ID	
5. Transporter 1 Company Name WASTE OIL RECOVERY				8. US EPA ID Number		F. Transporter's phone		G. State Facility's ID	
7. Transporter 2 Company Name				10. US EPA ID Number		H. Facility's phone		I. Facility's ID	
9. Designated Facility Name and Site Address HUSCO OIL 5000 AIRWAY 12150 VALLEY BLVD HARLETT, ALA 36827				12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol	
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number) a. USED OR NON-REPAIRABLE HYDRAULIC FLUID				12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol	
b.				12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol	
c.				12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol	
d.				12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol	
15. Special Handling Instructions and Additional Information LRO 27 WSPR P.P.E. HUMAN SILE 33 6750				K. Handling Codes for Wastes Listed Above a. Oil		b.		c.	
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.				SITE 1308-67th STREET EMERYVILLE CALIF					
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Signature Month Day Year									
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.

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7350

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CAC001074856		Manifest Document No. 00978		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.									
3. Generator's Name and Mailing Address George M. Martin Company 1250 Sixty Seventh Street - Emeryville, California 94608				A. State Manifest Document Number 95269996		B. State Generator's ID											
4. Generator's Phone (510) 652-2300		5. Transporter 1 Company Name Dexanna		6. US EPA ID Number CAD982438566		C. State Transporter's ID											
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone (510) 687-1292		E. State Transporter's ID											
9. Designated Facility Name and Site Address Erickson, Inc. - 255 Parr Blvd. Richmond, California 94801				10. US EPA ID Number CAD009466392		G. State Facility's ID CAD009466392											
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)				12. Containers		13. Total Quantity		14. Unit Wt/Vol		15. Waste Number							
a. Waste Empty Storage Tank NON-RCRA Hazardous Waste Solid.				No.		Type		P		State 512							
				001		TP				EPA/Other NONE							
										State							
										EPA/Other							
J. Additional Descriptions for Materials Listed Above				K. Handling Codes for Wastes Listed Above													
Tank # 18878 Qty. 1 Empty Storage Tank has been inerted with 15 lbs. DRY ICE per 1000 gallons capacity.				a.		b.		c.		d.							
15. Special Handling Instructions and Additional Information																	
Keep away from sources of ignition. Site Location: 1308-67th Street - Emeryville, California 24 Hr. Contact Name: David Goodcarl & Phone # (510) 652-2250																	
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				Signature				Month		Day		Year					
17. Transporter 1 Acknowledgement of Receipt of Materials				Printed/Typed Name James R. Cox				Signature <i>James R. Cox</i>				Month 09		Day 20		Year 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.



FORWARD
INCORPORATED

P.O. Box 6331
1145 W. Chamber Way • Stockton, CA 95211
(209) 466-4482 • (800) 204-4242 • FAX (209) 466-1061

October 21, 1996

Aqua Science Engineers
2411 Old Crow Canyon Road
San Ramon, CA 95483

Attention: Scott Ferriman

RE: **FORWARD, INC.** Approval No. 547522
Disposal of Petroleum Contaminated Soils
1308 67th Street
Emeryville, California

Dear Mr. Ferriman:

FORWARD, INC. is pleased to confirm the disposal of 7.43 tons of material as referenced above. The material was received at our Manteca, California facility for disposal on October 11, 1996. The material was placed in a Class 2 waste management unit.

Approval for this material was based on the information provided in the waste profile and associated materials submitted on behalf of George M. Martin (Generator). Acceptance of the waste is subject to the "Terms and Conditions" agreed to and signed by the Generator on the Waste Profile Form.

Thank you for the opportunity to be of service. Should you have any questions regarding this matter, please call myself or customer service at (800) 204-4242.

Sincerely,

FORWARD, INC.

Brad J. Bonner

Brad J. Bonner
Senior Account Manager

/snr



FORWARD INCORPORATED

NON-HAZARDOUS WASTE MANIFEST WASTE TREATMENT AND DISPOSAL FACILITY

JOB ACCEPTANCE NO. [REDACTED]

TO BE COMPLETED BY THE GENERATOR

GENERATOR: Geo. M. Martin Company
 ADDRESS: 1250 67th Street
 CITY, STATE, ZIP: Emeryville, CA 94608
 PHONE: 510-652-2200
 CONTACT PERSON: David Gooden
 SIGNATURE OF AUTHORIZED AGENT: [Signature] TITLE: agent for Geo DATE: 10-10-96

REQUIRED PERSONAL PROTECTIVE EQUIPMENT:
 GLOVES GOGGLES RESPIRATOR HARD HAT
 TY-VEK OTHER

SPECIAL HANDLING PROCEDURES:

WASTE TYPE:
 TREATMENT SOIL SLUDGE
 DISPOSAL SOIL NON-FRIABLE ASBESTOS
 CONSTRUCTION SOIL WOOD
 ASH
 OTHER

RECEIVING FACILITY:
FORWARD INC. LANDFILL
 9999 SOUTH AUSTIN ROAD
 MANTECA, CALIFORNIA 95336
 (209) 982-4298 PHONE
 (209) 982-1009 FAX

GENERATING FACILITY:
1308 67th Street
Emeryville, CA 94608

TRANSPORTER
HAULER MUST COMPLETE

NAME: T. E. O'Conner
 ADDRESS: P.O. Box 1194
 CITY, STATE, ZIP: Pleasanton, CA 94566
 PHONE: 510-846-7124
 SIGNATURE OF AUTHORIZED AGENT OR DRIVER: [Signature] DATE: 10-10-96

9
 2X33449 \$ 1 JUL 11 Y
 END DUMP BOTTOM DUMP TRANSFER
 ROLL-OFF(S) FLAT-BED VAN DRUMS

FACILITY REQUIREMENTS

FORWARD INC. LANDFILL
 Forward shall have no obligation to accept the waste if weather or other conditions impair the safe and effective disposal of the waste or if the waste impairs the safe and effective operation of the Landfill. Forward shall use reasonable efforts to promptly notify Disposer of its inability to accept the waste for any reason. If Forward's refusal to accept the waste is based on weather or other site conditions, Forward shall notify the Disposer when site conditions are expected to change such that Forward will be able to accept the waste.
 REMARKS:
 FACILITY TICKET NUMBER:
 SIGNATURE OF AUTHORIZED AGENT: [Signature] DATE: 10-10-96

CUBIC YARDS: 15

DISPOSAL METHOD:	(TO BE COMPLETED BY FORWARD)				
	DISPOSE	BIO	AERATE	STOCKPILE	OTHER
<input checked="" type="checkbox"/> SOIL	<input checked="" type="checkbox"/>				
<input type="checkbox"/> SLUDGE					
<input type="checkbox"/> NON-FRIABLE ASBESTOS					
<input type="checkbox"/> WOOD					
<input type="checkbox"/> ASH					
<input type="checkbox"/> OTHER					

SCHEDULING MUST BE MADE PRIOR TO 4:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS / SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE TO SCHEDULE CALL (209) 982-4298

FORWARD INCORPORATED DATE 10/15/96

9999 South Austin Road
Hanleca, CA 95336
Landfill: (209) 982-4298 Fax: (209) 982-1009
Resource Recovery: (209) 982-4936

P.O. Box 6316
Stockton, CA 95206
Main Office: (209) 466-4482
Fax: (209) 465-0631

Truck # 273349
Trailer # 10411K

CUSTOMER NO. 547522

TRUCK NO. 9

BILL TO: Agway Storage

121815

SIZE YDS.	DESCRIPTION	# PICK YD.	\$ AMOUNT	NOTES
	<input type="checkbox"/> REFUSE			DAS GROSS 45.710 Tare 30.850 Toss 14.860
	<input type="checkbox"/> TREATED WOOD			
	<input type="checkbox"/> SLUDGE			
	<input type="checkbox"/> ASH			
	<input type="checkbox"/> ASBESTOS			
	<input type="checkbox"/> NON-FRAGILE ASBESTOS			
	<input type="checkbox"/> OTHER			
TOTAL				

APPENDIX C
TANK DISPOSAL CERTIFICATE

DAY OR NIGHT
TELEPHONE
(510) 235-1393

CERTIFICATE CERTIFIED SERVICES COMPANY

255 Parr Boulevard • Richmond, California 94801

NO. 16171

CUSTOMER
ANAL. SCIENCE P.
JOB NO.
369173

FOR: ERICKSON, INC. TANK NO. 18878

LOCATION: RICHMOND DATE: 96/09/25 TIME: 12:47

TEST METHOD VISUAL GASTECH/1314 SMPN LAST PRODUCT D

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 700 GALLON TANK CONDITION SAFE FOR FIRE

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

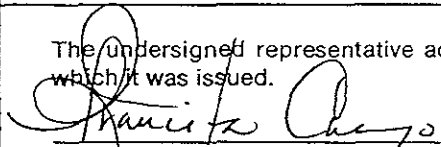
In the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, or if in any doubt, immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur.

STANDARD SAFETY DESIGNATION

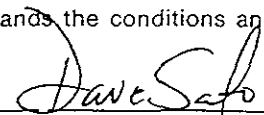
SAFE FOR MEN: Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within permissible concentrations; and (c) In the judgment of the Inspector, the residues are not capable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

APPENDIX D
LABORATORY ANALYSES
and
CHAIN OF CUSTODY

CHROMALAB, INC.

Environmental Services (SDB)

September 25, 1996

Submission #: 9609280

AQUA SCIENCE ENGINEERS INC

Atten: Scott Ferriman

Project: GEO M. MARTIN CO.
Received: September 20, 1996

Project#: 2991

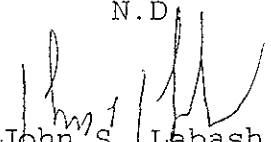
re: One sample for Miscellaneous Metals analysis.
Method: EPA 3050A/6010A

Client Sample ID: T1-5'

Spl#: 100881 Matrix: SOIL Extracted: September 23, 1996
Sampled: September 20, 1996 Run#: 3223 Analyzed: September 24, 1996

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
CADMIUM	N.D.	0.50	N.D.	90.9	1
CHROMIUM	20	1.0	N.D.	93.0	1
LEAD	5.6	1.0	N.D.	93.4	1
NICKEL	34	1.0	N.D.	90.8	1
ZINC	32	1.0	N.D.	93.5	1


Christopher Arndt
Chemist


John S. Labash
Inorganics Supervisor

CHROMALAB, INC.

Environmental Services (SDB)

September 25, 1996

Submission #: 9609280

AQUA SCIENCE ENGINEERS INC

Atten: Scott Ferriman

Project: GEO M. MARTIN CO.
Received: September 20, 1996

Project#: 2991

re: One sample for Miscellaneous Metals analysis.
Method: EPA 3050A/6010A

Client Sample ID: STKP(A-D)

Spl#: 100882

Matrix: SOIL


Extracted: September 23, 1996

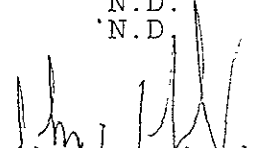
Sampled: September 20, 1996

Run#: 3223

Analyzed: September 24, 1996

<u>ANALYTE</u>	<u>RESULT</u> (mg/Kg)	<u>REPORTING</u> <u>LIMIT</u> (mg/Kg)	<u>BLANK</u> <u>RESULT</u> (mg/Kg)	<u>BLANK</u> <u>SPIKE</u> (%)	<u>DILUTION</u> <u>FACTOR</u>
CADMIUM	N.D.	0.50	N.D.	90.9	1
CHROMIUM	23	1.0	N.D.	93.0	1
LEAD	26	1.0	N.D.	93.4	1
NICKEL	34	1.0	N.D.	90.8	1
ZINC	100	1.0	N.D.	93.5	1


Christopher Arndt
Chemist


John S. Labash
Inorganics Supervisor

CHROMALAB, INC.

Environmental Services (SDB)

September 27, 1996

Submission #: 9609280

AQUA SCIENCE ENGINEERS INC

Atten: Scott Ferriman


Project: GEO M. MARTIN CO.
Received: September 20, 1996

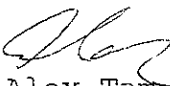
Project#: 2991

re: 2 samples for TPH - Diesel analysis.
Method: EPA 3510/8015M

Matrix: SOIL Extracted: September 25, 1996
Sampled: September 20, 1996 Run#: 3293 Analyzed: September 27, 1996

Spl#	CLIENT SPL ID	REPORTING		BLANK	BLANK DILUTION	
		DIESEL	LIMIT	RESULT	SPIKE	FACTOR
		(mg/Kg)	(mg/Kg)	(mg/Kg)	(%)	
100881	T1-5'	3400	200	N.D.	75.5	200
Note: Estimated concentration due to overlapping fuel patterns.						
100882	STKP (A-D)	1300	25	N.D.	75.5	25
Note: Estimated concentration due to overlapping fuel patterns.						


Bruce Havlik
Chemist


Alex Tam
Semivolatiles Supervisor

CHROMALAB, INC.

Environmental Services (SDB)

September 27, 1996

Submission #: 9609280

AQUA SCIENCE ENGINEERS INC

Atten: Scott Ferriman

Project: GEO M. MARTIN CO.
Received: September 20, 1996

Project#: 2991

re: 1 sample for BTEX compounds analysis.
Method: EPA 8020

Matrix: SOIL


Sampled: September 20, 1996 Run#: 3283


Analyzed: September 26, 1996

Spl#	CLIENT SPL ID	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl Benzene (mg/Kg)	Total Xylenes (mg/Kg)
100881	T1-5'	N.D.	N.D.	6.0	44

Note: Reporting limit raised due to sample interference.

Reporting Limits	2.5	2.5	2.5	2.5
Blank Result	N.D.	N.D.	N.D.	N.D.
Blank Spike Result (%)	81.5	86.5	88.5	88.8


June Zhao
Chemist


Marianne Alexander
Gas/BTEX Supervisor

CHROMALAB, INC.

Environmental Services (SDB)

September 27, 1996

Submission #: 9609280

AQUA SCIENCE ENGINEERS INC

Atten: Scott Ferriman

Project: GEO M. MARTIN CO.
Received: September 20, 1996

Project#: 2991

re: 1 sample for BTEX compounds analysis.
Method: EPA 8020

Matrix: SOIL
Sampled: September 20, 1996 Run#: 3250

Analyzed: September 24, 1996

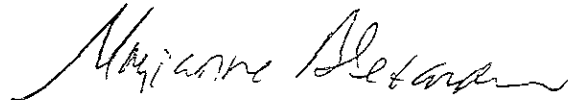
Spl#	CLIENT SPL ID	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl Benzene (mg/Kg)	Total Xylenes (mg/Kg)
100882	STKP (A-D)	N.D.	0.35	2.5	20

Note: Reporting limit raised due to sample interference.

Reporting Limits	0.10	0.10	0.10	0.10
Blank Result	N.D.	N.D.	N.D.	N.D.
Blank Spike Result (%)	102	108	111	110



June Zhao
Chemist



Marianne Alexander
Gas/BTEX Supervisor

CHROMALAB, INC.

Environmental Services (SDB)

September 27, 1996

Submission #: 9609280

AQUA SCIENCE ENGINEERS INC

Atten: Scott Ferriman

Project: GEO M. MARTIN CO.
Received: September 20, 1996

Project#: 2991

re: One sample for 8010 Purgeable Halocarbons by GC/MS analysis.
Method: EPA 8240A July, 1992

Client Sample ID: T1-5'

Spl#: 100881

Matrix: SOIL

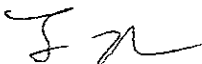
Sampled: September 20, 1996

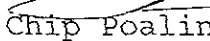
Run#: 3331

Analyzed: September 23, 1996

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE FACTOR (%)	DILUTION FACTOR
CHLOROMETHANE	N.D.	40	N.D.	--	4
VINYL CHLORIDE	N.D.	20	N.D.	--	4
BROMOCHLOROMETHANE	N.D.	20	N.D.	--	4
CHLOROETHANE	N.D.	20	N.D.	--	4
TRICHLOROFLUOROMETHANE	N.D.	40	N.D.	--	4
1,1-DICHLOROETHENE	N.D.	20	N.D.	86.9	4
METHYLENE CHLORIDE	N.D.	40	N.D.	--	4
TRANS-1,2-DICHLOROETHENE	N.D.	20	N.D.	--	4
CIS-1,2-DICHLOROETHENE	N.D.	20	N.D.	--	4
1,1-DICHLOROETHANE	N.D.	20	N.D.	--	4
CHLOROFORM	N.D.	20	N.D.	--	4
1,1,1-TRICHLOROETHANE	N.D.	20	N.D.	--	4
CARBON TETRACHLORIDE	N.D.	20	N.D.	--	4
1,2-DICHLOROETHANE	N.D.	20	N.D.	--	4
TRICHLOROETHENE	N.D.	20	N.D.	98.7	4
1,2-DICHLOROPROPANE	N.D.	20	N.D.	--	4
BROMODICHLOROMETHANE	N.D.	20	N.D.	--	4
2-CHLOROETHYL VINYL ETHER	N.D.	40	N.D.	--	4
TRANS-1,3-DICHLOROPROPENE	N.D.	20	N.D.	--	4
CIS-1,3-DICHLOROPROPENE	N.D.	20	N.D.	--	4
1,1,2-TRICHLOROETHANE	N.D.	20	N.D.	--	4
TETRACHLOROETHENE	N.D.	40	N.D.	--	4
DIBROMOCHLOROMETHANE	N.D.	20	N.D.	--	4
CHLOROBENZENE	N.D.	20	N.D.	101	4
BROMOFORM	N.D.	20	N.D.	--	4
1,1,2,2-TETRACHLOROETHANE	N.D.	20	N.D.	--	4
1,3-DICHLOROBENZENE	N.D.	20	N.D.	--	4
1,4-DICHLOROBENZENE	N.D.	20	N.D.	--	4
1,2-DICHLOROBENZENE	N.D.	20	N.D.	--	4
TRICHLOROTRIFLUOROETHANE	N.D.	20	N.D.	--	4

Note: Surrogate recovery was outside QA/QC limits due to matrix interference.
See Surrogate Summary page.


June Zhao
Chemist


Chip Poalinelli
Operations Manager

CHROMALAB, INC.

Environmental Services (SDB)

September 27, 1996

Submission #: 9609280

AQUA SCIENCE ENGINEERS INC

Atten: Scott Ferriman

Project: GEO M. MARTIN CO.
Received: September 20, 1996

Project#: 2991

re: One sample for 8010 Purgeable Halocarbons by GC/MS analysis.
Method: EPA 8240A July, 1992

Client Sample ID: STKP(A-D)

Spl#: 100882

Matrix: SOIL


Sampled: September 20, 1996

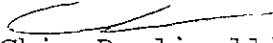
Run#: 3332

Analyzed: September 25, 1996

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
CHLOROMETHANE	N.D.	10	N.D.	--	1
VINYL CHLORIDE	N.D.	5.0	N.D.	--	1
BROMOCHLOROMETHANE	N.D.	5.0	N.D.	--	1
CHLOROETHANE	N.D.	5.0	N.D.	--	1
TRICHLOROFLUOROMETHANE	N.D.	10	N.D.	--	1
1,1-DICHLOROETHENE	N.D.	5.0	N.D.	91.1	1
METHYLENE CHLORIDE	N.D.	10	N.D.	--	1
TRANS-1,2-DICHLOROETHENE	N.D.	5.0	N.D.	--	1
CIS-1,2-DICHLOROETHENE	N.D.	5.0	N.D.	--	1
1,1-DICHLOROETHANE	N.D.	5.0	N.D.	--	1
CHLOROFORM	N.D.	5.0	N.D.	--	1
1,1,1-TRICHLOROETHANE	N.D.	5.0	N.D.	--	1
CARBON TETRACHLORIDE	N.D.	5.0	N.D.	--	1
1,2-DICHLOROETHANE	N.D.	5.0	N.D.	--	1
TRICHLOROETHENE	N.D.	5.0	N.D.	91.1	1
1,2-DICHLOROPROPANE	N.D.	5.0	N.D.	--	1
BROMODICHLOROMETHANE	N.D.	5.0	N.D.	--	1
2-CHLOROETHYL VINYL ETHER	N.D.	10	N.D.	--	1
TRANS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--	1
CIS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--	1
1,1,2-TRICHLOROETHANE	N.D.	5.0	N.D.	--	1
TETRACHLOROETHENE	N.D.	10	N.D.	--	1
DIBROMOCHLOROMETHANE	N.D.	5.0	N.D.	--	1
CHLOROBENZENE	N.D.	5.0	N.D.	90.8	1
BROMOFORM	N.D.	5.0	N.D.	--	1
1,1,2,2-TETRACHLOROETHANE	N.D.	5.0	N.D.	--	1
1,3-DICHLOROBENZENE	N.D.	5.0	N.D.	--	1
1,4-DICHLOROBENZENE	N.D.	5.0	N.D.	--	1
1,2-DICHLOROBENZENE	N.D.	5.0	N.D.	--	1
TRICHLOROTRIFLUOROETHANE	N.D.	5.0	N.D.	--	1

Note: Surrogate recovery was outside QA/QC limits due to matrix interference.
See Surrogate Summary page.


June Zhao
Chemist


Chip Poalinelli
Operations Manager

CHROMALAB, INC.

Environmental Services (SDB)

September 27, 1996

Submission #: 9609280

AQUA SCIENCE ENGINEERS INC

Atten: Scott Ferriman

Project: GEO M. MARTIN CO.
Received: September 20, 1996

Project#: 2991

re: **Surrogate** report for 1 sample for 8010 Purgeable Halocarbons by
Method: EPA 8240A July, 1992
Lab Run#: 3331
Matrix: SOIL

Sample#	Client Sample ID	Surrogate	% Recovered	Recovery Limits
100881-1	T1-5'	4-BROMOFLOUROBENZENE	240	74-121
100881-1	T1-5'	D4-1,2-DICHLOROETHANE	100	70-121
100881-1	T1-5'	D8-TOLUENE	112	81-117

Sample#	QC Sample Type	Surrogate	% Recovered	Recovery Limits
101817-1	Reagent blank (MDB)	4-BROMOFLOUROBENZENE	90	74-121
101817-1	Reagent blank (MDB)	D4-1,2-DICHLOROETHANE	100	70-121
101817-1	Reagent blank (MDB)	D8-TOLUENE	109	81-117
101818-1	Spiked blank (BSP)	4-BROMOFLOUROBENZENE	89	74-121
101818-1	Spiked blank (BSP)	D4-1,2-DICHLOROETHANE	84	70-121
101818-1	Spiked blank (BSP)	D8-TOLUENE	106	81-117
101819-1	Spiked blank duplicate (BSD)	4-BROMOFLOUROBENZENE	89	74-121
101819-1	Spiked blank duplicate (BSD)	D4-1,2-DICHLOROETHANE	94	70-121
101819-1	Spiked blank duplicate (BSD)	D8-TOLUENE	107	81-117

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CHROMALAB, INC.

Environmental Services (SDB)

September 27, 1996

Submission #: 9609280

AQUA SCIENCE ENGINEERS INC

Atten: Scott Ferriman

Project: GEO M. MARTIN CO.
Received: September 20, 1996

Project#: 2991

re: **Surrogate** report for 1 sample for 8010 Purgeable Halocarbons by
Method: EPA 8240A July, 1992
Lab Run#: 3332
Matrix: SOIL

Sample#	Client Sample ID	Surrogate	% Recovered	Recovery Limits
100882-1	STKP (A-D)	4-BROMOFLOUROBENZENE	361	74-121
100882-1	STKP (A-D)	D4-1,2-DICHLOROETHANE	86.6	70-121
100882-1	STKP (A-D)	D8-TOLUENE	103	81-117

Sample#	QC Sample Type	Surrogate	% Recovered	Recovery Limits
101820-1	Reagent blank (MDB)	4-BROMOFLOUROBENZENE	86	74-121
101820-1	Reagent blank (MDB)	D4-1,2-DICHLOROETHANE	88	70-121
101820-1	Reagent blank (MDB)	D8-TOLUENE	96	81-117
101821-1	Spiked blank (BSP)	4-BROMOFLOUROBENZENE	88	74-121
101821-1	Spiked blank (BSP)	D4-1,2-DICHLOROETHANE	98	70-121
101821-1	Spiked blank (BSP)	D8-TOLUENE	104	81-117
101822-1	Spiked blank duplicate (BSD)	4-BROMOFLOUROBENZENE	90	74-121
101822-1	Spiked blank duplicate (BSD)	D4-1,2-DICHLOROETHANE	82	70-121
101822-1	Spiked blank duplicate (BSD)	D8-TOLUENE	96	81-117

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280/100881-100882

29827

Aqua Science Engineers, Inc.
2411 Old Crow Canyon Road, #4,
San Ramon, CA 94583
(510) 820-9391 · FAX (510) 837-4853

Chain of Custody

DATE 9-20-96 PAGE 1 OF 1

SAMPLERS (SIGNATURE)

(PHONE NO)

PROJECT NAME Geo H. Martin Co.

NO. 2991

ADDRESS 1308 67th Street, Emeryville

Scott Ferriman 510-820-9391

ANALYSIS REQUEST

SPECIAL INSTRUCTIONS:

5-Day

SAMPLE ID.	DATE	TIME	MATRIX	NO. OF SAMPLES	TPH: GASOLINE (EPA 5030/8015)	TPH: DIESEL (EPA 3510/8015)	PURGABLE AROMATICS (EPA 602/8020)	PURGABLE HALOCARBONS (EPA 601/8010) <u>82405</u>	VOLATILE ORGANICS (EPA 624/8240)	BASE/NEUTRALS, ACIDS (EPA 625/8270)	OIL & GREASE (EPA 5520 ERF OF B&T)	LUFT METALS (5) (EPA 6010+7000)	TITLE 22 (CAM 17) (EPA 6010+7000)	TCLP (EPA 1311/1310)	STLC: CAM MET (EPA 1311/1310)	REACTIVITY CORROSIVITY IGNITABILITY
BT																
FT1-S'	9-20-96	13:52	So. l	1	X	X		X				X				
STKP(A-O)	9-20-96	14:30	So. l	4	X	X		X				X				Composite 4 to 1

CURR N: 0609280 REP: MV
CLIENT: ABE
DUE: 09/27/96
REF #: 89827

RELINQUISHED BY:

RECEIVED BY:

RELINQUISHED BY:

RECEIVED BY LABORATORY:

COMMENTS:

Scott Ferriman 1605

B. Conrad 1805

B. Conrad 1805

Mimie Pak 1805

(signature) (time)

(signature) (time)

(signature) (time)

(signature) (time)

Scott Ferriman 9-20-96

B. Conrad 9-20-96

B. Conrad 9-20-96

Mimie Pak 9-20-96

(printed name) (date)

(printed name) (date)

(printed name) (date)

(printed name) (date)

Chemicals