

LOP - RECORD CHANGE REQUEST FORM

printed:
10/19/98

Mark Out What Needs Changing and Hand to LOP Data Entry
(Name/Address changes go to Annual Programs Data Entry)

Insp: CL

AGENCY # : 10000 SOURCE OF FUNDS: - SUBSTANCE: 12034
 StID : 318 LOC: -0-
 SITE NAME: Geo. M. Martin Co. DATE REPORTED : -0-
 ADDRESS : 1308 -0 67th St DATE CONFIRMED: 09/25/96
 CITY/ZIP : Emeryville 94608 MULTIPLE RPs : N

SITE STATUS

 CASE TYPE: U CONTRACT STATUS: 4 PRIOR CODE:1C3 EMERGENCY RESP: -0-
 RP SEARCH: S DATE COMPLETED: 10/02/96
 PRELIMINARY ASMNT: - DATE UNDERWAY: -0- DATE COMPLETED: -0-
 REM INVESTIGATION: - DATE UNDERWAY: -0- DATE COMPLETED: -0-
 REMEDIAL ACTION: - DATE UNDERWAY: -0- DATE COMPLETED: -0-
 POST REMED ACT MON:- DATE UNDERWAY: -0- DATE COMPLETED: -0-

ENFORCEMENT ACTION TYPE: 1 DATE ENFORCEMENT ACTION TAKEN: 10/02/96
 LUFT FIELD MANUAL CONSID: 2
 CASE CLOSED: Y DATE CASE CLOSED: 12/31/97
 DATE EXCAVATION STARTED : -0- REMEDIAL ACTIONS TAKEN: 0-

RESPONSIBLE PARTY INFORMATION

 RP#1-CONTACT NAME: David Goodearl
 COMPANY NAME: Geo M Martin Company
 ADDRESS: 1250 - 67th St
 CITY/STATE: Emeryville Ca 94608

INSPECTOR VERIFICATION:

NAME _____ SIGNATURE _____ DATE _____

DATA ENTRY INPUT:

Name/Address Changes Only Case Progress Changes

ANNPMS _____ LOP _____ DATE _____ LOP _____ DATE _____

Std 318/lop

January 13, 1997

Attn: David Goodearl
Geo M. Martin Company
1250 - 67th St
Emeryville CA 94608

Subject: Workplan for investigations at 1308 - 67th St., Emeryville CA 94608

Dear Mr. Goodearl:

This office has reviewed Aqua Science Engineers, Inc.'s (ASE) workplan, dated January 6, 1997. In order to assess the severity and extent of diesel contamination to soil and groundwater at the subject site, the workplan proposes to install three borings and collect soil and groundwater samples in the vicinity of the former 700-gallon diesel underground storage tank (UST) pit. This work plan is acceptable to this office. Thank you for your thoroughness and prompt attention to this matter.

We understand you intend to complete the field work for this project on January 20, 1997. Please submit a report describing the field work activities, results, and recommendations no later than March 7, 1997. If you have questions, please call me at (510)567-6755.

Sincerely,

Amy Leech
Hazardous Materials Specialist

c: Attn: Scott Ferriman,
Aqua Science Engineers, Inc., 2411 Old Crow Canyon Rd., Suite 4, San Ramon CA 94583
ALL-file

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



Std 318

November 5, 1996

Attn: David Goodearl
Geo M. Martin Company
1250 - 67th St
Emeryville CA 94608

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION (LOP)
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

Subject: Required Investigations at 1308 - 67th St., Emeryville CA 94608

Dear Mr. Goodearl:

This office has completed a review of Aqua Science Engineers Inc.'s *Underground Storage Tank Removal Report*, dated October 21, 1996, for the subject site. This report documents tank closure and soil excavation activities.

On September 20, 1996, one 700-gallon diesel underground storage tank (UST) was removed from the subject site. Laboratory analyses of the soil sample collected at the bottom of the UST pit at five feet below ground surface (bgs) identified contaminant levels as high as 3,400 parts per million (ppm) Total Petroleum Hydrocarbons as diesel (TPH-D), 6.0 ppm ethylbenzene, and 44 ppm xylenes. Approximately 7.5 tons of contaminated soil was excavated from the tank pit; however, confirmatory soil samples were not collected to verify the lateral extent of soil contamination. Overexcavation reportedly did not occur vertically beneath the former UST (past 5 feet bgs) due to structural limitations.

Guidelines established by the California Regional Water Quality Control Board (RWQCB) require that soil and ground water investigations be conducted when there is evidence to indicate that a release from an UST will impact or may have impacted the groundwater. Therefore, you are required to conduct a **Soil and Water Investigation (SWI)** to determine the lateral and vertical extent and severity of **both soil and groundwater** contamination resulting from the release at the site. The information gathered by the SWI will be used to determine an appropriate course of action (Corrective Action Plan) to remediate the site, if deemed necessary. The SWI must be conducted in accordance with the RWQCB's Staff Recommendations for the Initial Evaluation and Investigation of Underground Tanks, and be consistent with requirements set forth in Article 11 of Title 23, California Code of Regulations. The major elements of such an investigation are summarized in the attached **Appendix A**. In addition, the San Francisco Bay RWQCB's *Interim Guidance on Required Cleanup at Low-Risk Fuel Sites* (copy attached) and the ASTM E1739-95 document entitled *Standard Guide for Risk-Based Corrective Action (RBCA) Applied at Petroleum Release Sites* should be used to evaluate this site.

This Department will oversee the assessment and remediation of your site. Our oversight will include the review of and comment on work proposals and technical guidance on appropriate investigative approaches and monitoring schedules. The issuance of well drilling permits, however, will be through the Alameda County Flood Control and Water Conservation District, Zone 7, in Pleasanton. The RWQCB may choose to take over as lead agency if it is determined that there has been a substantial impact to ground water.

Goodearl
Re: 1250 67th St
November 5, 1996
Page 2 of 2

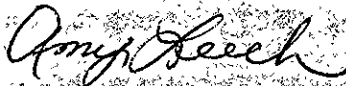
In order to properly conduct a site investigation, you are required to obtain professional services of a reputable environmental consultant. All reports and proposals must be submitted under seal of a California-Registered Geologist, -Certified Engineering Geologist, or -Registered Civil Engineer.

The SWI proposal (work plan) is due within 60 days of the date of this letter or by January 7, 1997. Once the proposal is approved, field work should commence within 30 days. A report must be submitted within 45 days after the completion of this phase of work at the site.

Please be advised that this is a formal request for a work plan pursuant to Section 2722 (c)(d) of Title 23 California Code of Regulations. Any extensions of the stated deadlines, or modifications of the required tasks, must be confirmed in writing by either this agency or RWQCB.

If you have any questions or comments, please contact me at (510) 567-6755.

Sincerely,



Amy Leech
Hazardous Materials Specialist

ATTACHMENTS

c: Aqua Science Engineers Inc., 2411 Old Crow Canyon Rd., Suite 4, San Ramon CA 94583
File (ALL)

NA 10/2/96 input date

ALAMEDA COUNTY - ENVIRONMENTAL HEALTH
TRANSFER OF ELIGIBLE LOCAL OVERSIGHT CASE

Date: 10/02/96

INSPECTOR'S NAME: Amy Yeech

Site: Geo. M. Martin Co.
1308 67th St
Emeryville CA 94608

StID: 318

CRITERIA MET?

- Y N 1) Tanks removed? # removed? 1 Date Rem? 9/20/96
- Y N 2) Samples received?
- Y N 3) Petroleum? circle type:
 - Avgas - leaded - unleaded - fuel oil - jet
 - diesel waste oil - kerosene - solvents

PROCEDURE TO FOLLOW:

 1) DepRef case CLOSED with Candyce/Leslie?

TO CLOSE DepRef CASE:

- a. Account for ALL time spent on case.
- b. Turn in Work Sheet to Leslie.
* If there are funds still remaining it is still better to transfer the case to LOP as the rate for LOP is GREATER.
- c. \$ 102.46 Remaining DepRef \$'s \$94/HR?

Did Brian do this? Yes
AKK

Submit the completed A & B permit application forms to NORMA
Give the entire case to the proper LOP staff person.

INITIAL THIS FORM, GIVE TO NORMA, RUN REIMBURSE LETTER PROGRAM AGAIN.

NA:mk 11/9/95

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

EMERGENCY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> 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 1 M 0 D 1 d 9 y 6 y		CASE # _____		SIGNED <i>Scott T. Ferriman</i> DATE 10/07/96		
REPORTED BY	NAME OF INDIVIDUAL FILING REPORT Scott T. Ferriman		PHONE (510) 820-9391		SIGNATURE <i>Scott T. Ferriman</i>	
	REPRESENTING <input type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input type="checkbox"/> LOCAL AGENCY <input checked="" type="checkbox"/> OTHER <u>Consultant</u>		COMPANY OR AGENCY NAME Aqua Science Engineers Inc.			
	ADDRESS 2411 Old Crow Canyon Rd #4 San Ramon CA 94583					
RESPONSIBLE PARTY	NAME Geo M. Martin Co. <input type="checkbox"/> UNKNOWN		CONTACT PERSON David Goodearl		PHONE (510) 652-2200	
	ADDRESS 1250 67th street Emeryville CA 94608					
SITE LOCATION	FACILITY NAME (IF APPLICABLE) _____		OPERATOR _____		PHONE ()	
	ADDRESS 1308 67th street Emeryville CA 94608					
	CROSS STREET Hollis street					
IMPLEMENTING AGENCIES	LOCAL AGENCY Alameda County Health Agency		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) NAME Diesel		QUANTITY LOST (GALLONS) <input checked="" type="checkbox"/> UNKNOWN			
	(2) _____		<input type="checkbox"/> UNKNOWN			
DISCOVERY/ABATEMENT	DATE DISCOVERED 0 M 9 D 2 d 0 d 9 y 6 y		HOW DISCOVERED <input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS <input type="checkbox"/> TANK TEST <input checked="" type="checkbox"/> TANK REMOVAL <input type="checkbox"/> OTHER _____			
	DATE DISCHARGE BEGAN _____ <input checked="" type="checkbox"/> UNKNOWN		METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input checked="" type="checkbox"/> REMOVE CONTENTS <input checked="" type="checkbox"/> CLOSE TANK & REMOVE <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> CLOSE TANK & FILL IN PLACE <input type="checkbox"/> CHANGE PROCEDURE <input type="checkbox"/> REPLACE TANK <input checked="" type="checkbox"/> OTHER <u>Excavated</u>			
	HAS DISCHARGE BEEN STOPPED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE 0 M 9 D 2 d 0 d 9 y 6 y					
SOURCE/ CAUSE	SOURCE OF DISCHARGE <input checked="" type="checkbox"/> TANK LEAK <input type="checkbox"/> UNKNOWN <input type="checkbox"/> PIPING LEAK <input type="checkbox"/> OTHER _____		CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> SPILL <input checked="" type="checkbox"/> CORROSION <input type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER _____			
	CASE TYPE <input checked="" type="checkbox"/> UNDETERMINED <input type="checkbox"/> SOIL ONLY <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)					
CURRENT STATUS	CHECK ONE ONLY <input checked="" type="checkbox"/> NO ACTION TAKEN <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED <input type="checkbox"/> POLLUTION CHARACTERIZATION <input type="checkbox"/> LEAK BEING CONFIRMED <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT UNDERWAY <input type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS <input type="checkbox"/> REMEDIATION PLAN <input type="checkbox"/> CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) <input type="checkbox"/> CLEANUP UNDERWAY					
	REMEDIAL ACTION CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS) <input type="checkbox"/> CAP SITE (CD) <input type="checkbox"/> EXCAVATE & DISPOSE (ED) <input type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> ENHANCED BIO DEGRADATION (IT) <input type="checkbox"/> CONTAINMENT BARRIER (CB) <input type="checkbox"/> EXCAVATE & TREAT (ET) <input type="checkbox"/> PUMP & TREAT GROUNDWATER (GT) <input type="checkbox"/> REPLACE SUPPLY (RS) <input type="checkbox"/> VACUUM EXTRACT (VE) <input type="checkbox"/> NO ACTION REQUIRED (NA) <input type="checkbox"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> VENT SOIL (VS) <input checked="" type="checkbox"/> OTHER (OT) <u>Possible site characterization Report</u>					
COMMENTS	UST Removal Report Submitted to Local Agency					

LOP RECORD CHANGE REQUEST FOR

printed:
10/02/96

Mark Out What Needs Changing and Hand to LOP Data Entry
(Name/Address changes go to Annual Programs Data Entry)

Insp: ALL

AGENCY # : 10000 SOURCE OF FUNDS: F SUBSTANCE: 12034
 StID : 318 LOC: -0-
 SITE NAME: Geo. M. Martin Co. DATE REPORTED : -0-
 ADDRESS : 1308 -0 67th St DATE CONFIRMED: 09/25/96
 CITY/ZIP : Emeryville 94608 MULTIPLE RPs : N

SITE STATUS

 CASE TYPE: U CONTRACT STATUS: 2 PRIOR CODE:2A4 EMERGENCY RESP: -0-
 RP SEARCH: S DATE COMPLETED: 10/02/96
 PRELIMINARY ASMNT: - DATE UNDERWAY: -0- DATE COMPLETED: -0-
 REM INVESTIGATION: - DATE UNDERWAY: -0- DATE COMPLETED: -0-
 REMEDIAL ACTION: - DATE UNDERWAY: -0- DATE COMPLETED: -0-
 POST REMED ACT MON:- DATE UNDERWAY: -0- DATE COMPLETED: -0-

ENFORCEMENT ACTION TYPE: 1 DATE ENFORCEMENT ACTION TAKEN: 10/02/96
 LUFT FIELD MANUAL CONSID: 2
 CASE CLOSED: - DATE CASE CLOSED: -0-
 DATE EXCAVATION STARTED : -0- REMEDIAL ACTIONS TAKEN: -0-

RESPONSIBLE PARTY INFORMATION

 RP#1-CONTACT NAME: David Goodearl
 COMPANY NAME: Geo M Martin Company
 ADDRESS: 1250 - 67th St
 CITY/STATE: Emeryville Ca 94608

INSPECTOR VERIFICATION:

NAME _____ SIGNATURE _____ DATE _____

DATA ENTRY INPUT:

Name/Address Changes Only			Case Progress Changes	
ANPPGMS _____	LOP _____	DATE _____	LOP _____	DATE _____

ALAMEDA COUNTY, DEPARTMENT OF
 ENVIRONMENTAL HEALTH
 Hazardous Materials Inspection Form

II, III

white -env.health
 yellow -facility
 pink -files

Site ID # 3A Site Name George Martin Today's Date 9/20/96

Site Address 1308 67th ST
 City Emeryville Zip 94608 Phone _____

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

Inspection Categories:

- I. Haz. Mat/Waste GENERATOR/TRANSPORTER
- II. Business Plans, Acute Hazardous Materials
- III. Underground Tanks removal

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

Comments:

On site for removal of UST
 upon arrival observed that
 1) there were several holes in the tank
 2) stained soil in the area surrounding the tank
 3) CO₂ used to inert tank
 4) LEL 5-10-
 5) Pumper truck (vacuum) on site
 6) water encountered in pit (from tank)
 7) sheen observed on water
 8) water pumped from pit
 9) TANK removed
 10) Samples taken at pit and (South) at ~ 5 feet below ground surface

II.A BUSINESS PLANS (Title 19)

- 1. Immediate Reporting 2703
- 2. Bus Plan Stds. 25503(b)
- 3. RR Cars > 30 days 25503.7
- 4. Inventory Information 25504(a)
- 5. Inventory Complete 2730
- 6. Emergency Response 25504(b)
- 7. Training 25504(c)
- 8. Deficiency 25505(a)
- 9. Modification 25505(b)

II.B ACUTELY HAZ MATS

- 10. Registration Form Filed 25533(c)
- 11. Form Complete 25533(b)
- 12. RMPP Contents 25534(c)
- 13. Implement Sch. Req'd? (Y/N) _____
- 14. OffSite Conseq. Assess. 25524(c)
- 15. Probable Risk Assessment 25534(d)
- 16. Persons Responsible 25534(g)
- 17. Certification 25534(f)
- 18. Exemption Request? (Y/N) _____
- 19. Trade Secret Requested? 25538

III. UNDERGROUND TANKS (Title 23)

- | | |
|---|---|
| General | <input type="checkbox"/> 1. Permit Application 25284 (H&S) |
| | <input type="checkbox"/> 2. Pipeline Leak Detection 25292 (H&S) |
| | <input type="checkbox"/> 3. Records Maintenance 2712 |
| | <input type="checkbox"/> 4. Release Report 2651 |
| | <input type="checkbox"/> 5. Closure Plans 2670 |
| Monitoring for Existing Tanks | <input type="checkbox"/> 6. Method |
| | 1) Monthly Test |
| | 2) Daily Vadose
Semi-annual groundwater
One time soils |
| | 3) Daily Vadose
One time soils
Annual tank test |
| | 4) Monthly Gndwater
One time soils |
| | 5) Daily Inventory
Annual tank testing
Cont pipe leak det
Vadose/gndwater mon. |
| | 6) Daily Inventory
Annual tank testing
Cont pipe leak det |
| | 7) Weekly Tank Gauge
Annual tank tsging |
| | 8) Annual Tank Testing
Daily Inventory |
| | 9) Other _____ |
| New Tanks | <input type="checkbox"/> 7. Precip Tank Test 2632
Date: _____ |
| | <input type="checkbox"/> 8. Inventory Rec. 2644 |
| | <input type="checkbox"/> 9. Soil Testing 2646 |
| | <input type="checkbox"/> 10. Ground Water 2647 |
| | <input type="checkbox"/> 11. Monitor Plan 2632
Date: _____ |
| <input type="checkbox"/> 12. Access, Secure 2634 | |
| <input type="checkbox"/> 13. Plans Submit 2711
Date: _____ | |
| <input type="checkbox"/> 14. As Built 2635
Date: _____ | |

130
200

Contact: Scott Ferriman Inspector: Brian P. O'Leary
 Title: Env. Specialist Signature: _____
 Signature: Scott Ferriman Signature: _____

II, III

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Inspection Form

II, III

white -env. health
yellow -facility
pink -files

Site ID # 316 Site Name George Macker Today's Date 9/20/96

Site Address 1308 67th St

City Emeryville Zip 94602 Phone _____

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

Inspection Categories:

- I. Haz. Mat/Waste GENERATOR/TRANSPORTER
- II. Business Plans, Acute Hazardous Materials
- III. Underground Tanks

TANK made 95269996

work ad rec.

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

Comments: 650 gallons 95877508
manuf. by i
work, oil/fuel removed from tank
tank size ~ 750 gallons

Required Actions

- 1) Submit URF upon verification
- 2) Sample for BTEX, TPH-D, Solvents, metals
- 3) Sample water if encountered during excavation
- 4) Submit sample results within 14 working days
- 5) Make area safe
- 6) Submit report of findings in 30 days
- 7) Sample stock pile for same (as # 2)
Composite Sample OK

II.A BUSINESS PLANS (Title 19)

- 1. Immediate Reporting 2703
- 2. Bus. Plan Stds 25503(b)
- 3. RR Cars > 30 days 25503.7
- 4. Inventory Information 25504(a)
- 5. Inventory Complete 2730
- 6. Emergency Response 25504(b)
- 7. Training 25504(c)
- 8. Deficiency 25505(a)
- 9. Modification 25505(b)

II.B ACUTELY HAZ. MAT'S

- 10. Registration Form Filed 25533(a)
- 11. Form Complete 25533(b)
- 12. RMPP Contents 25533(c)
- 13. Implement Sch. Req'd? (Y/N) _____
- 14. OffSite Conseq. Assess. 25524(c)
- 15. Probable Risk Assessment 25534(d)
- 16. Persons Responsible 25534(g)
- 17. Certification 25534(f)
- 18. Exemption Request? (Y/N) _____
- 19. Trade Secret Requested? 25538

III. UNDERGROUND TANKS (Title 23)

- General**
- 1. Permit Application 25284 (H&S)
 - 2. Pipeline Leak Detection 25292 (H&S)
 - 3. Records Maintenance 2712
 - 4. Release Report 2651
 - 5. Closure Plans 2670

- Monitoring for Existing Tanks**
- 6. Method
 - 1) Monthly Test
 - 2) Daily Vadose
Semi-annual groundwater
One time soils
 - 3) Daily Vadose
One time soils
Annual tank test
 - 4) Monthly Gndwater
One time soils
 - 5) Daily Inventory
Annual tank testing
Cont pipe leak det
Vadose/gndwater mon.
 - 6) Daily Inventory
Annual tank testing
Cont pipe leak det
 - 7) Weekly Tank Gauge
Annual tank testing
 - 8) Annual Tank Testing
Daily Inventory
 - 9) Other _____

- 7. Precip Tank Test 2643
Date: _____
- 8. Inventory Rec. 2644
- 9. Soil Testing 2646
- 10. Ground Water 2647

- New Tanks**
- 11. Monitor Plan 2632
 - 12. Access, Secure 2634
 - 13. Plans Submit 2711
Date: _____
 - 14. As Built 2635
Date: _____

Rev 6/8

Contact: Scott Ferriman
Title: Env. Specialist
Signature: Scott Ferriman

Inspector: Bruce P. Allen
Signature: _____

II, III

SUSAN L. HUGO
Project Specialist

ALAMEDA COUNTY HEALTH CARE SERVICE 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

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's 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 F. 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 CAC001074856

will have within 90 day of removal.

6. Contractor Ag 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) See # 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 Alth Street
City Berkeley state CA zip 94710
State Certification No. ELAP # 1459

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

If yes, describe. _____

14. Describe method 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 gallon	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) <p align="center">20 yards.</p>	Sampling Plan 1-four point composite and analyzed for lead 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 5.0 ppb.
Groundwater Diesel BTEX	is not anticipated, if encountered parameters will 3510 5030	8015 M 8020	be meet. 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. Martin Company

Name of Individual David Goodearl

Signature [Signature] Date 4-29-96

ALAMEDA COUNTY ENVIRONMENTAL PROTECTION DIVISION

DECLARATION OF SITE ACCOUNT REFUND RECIPIENT

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)

Geo M. Martin Company
Name of Site

1308 Sixty-Seventh Street
Street Address

Emeryville, CA 94608
City, State & Zip Code

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

Geo M. Martin Company
Name

1250 Sixty-Seventh Street
Street Address

Emeryville, CA 94608
City, State & Zip Code

Scott T. Ferriman for ASE
Signature of Payor

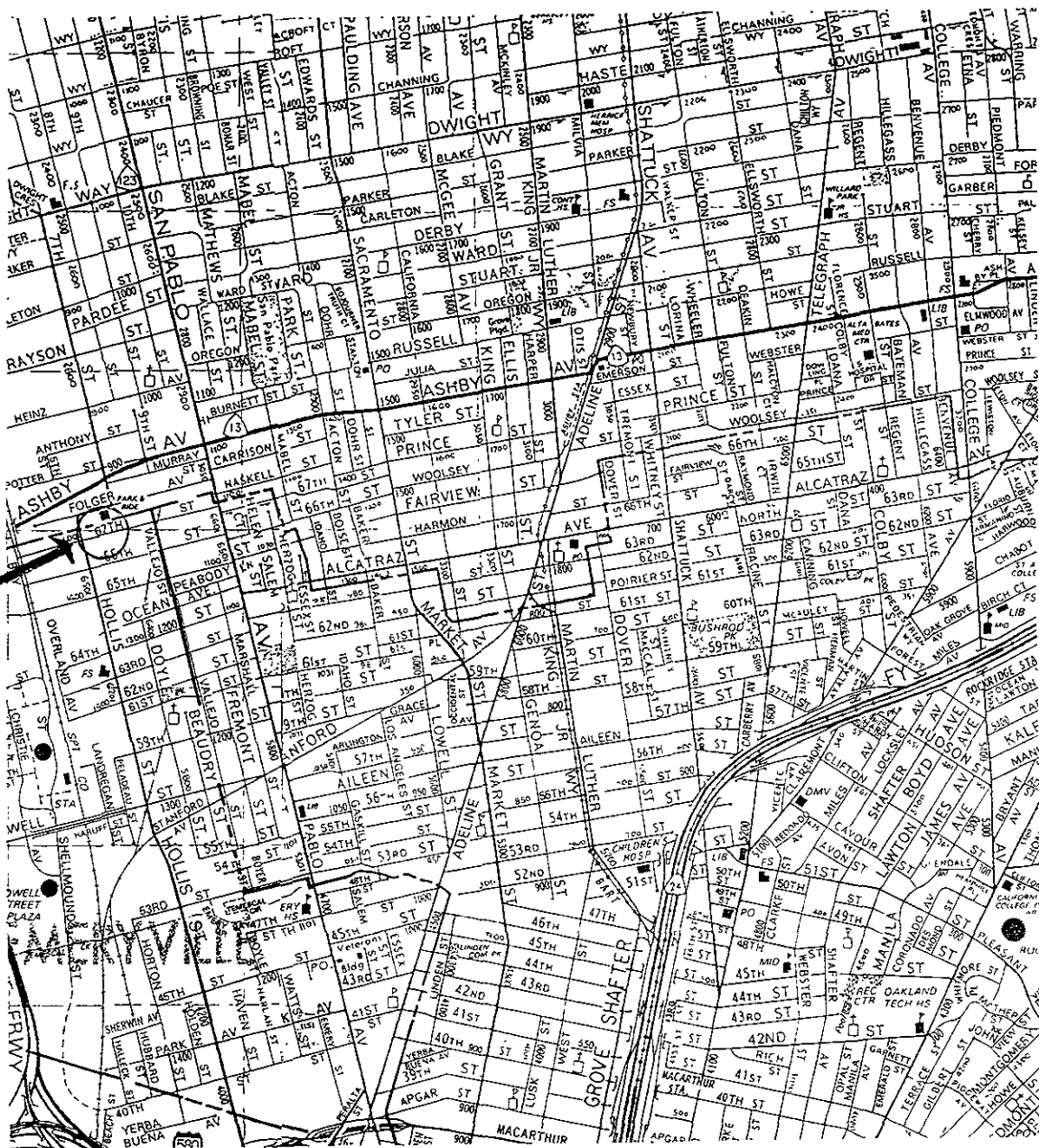
4-29-96
Date

Scott T. Ferriman for ASE
Name of Payor
(PLEASE PRINT CLEARLY)

Agua Science Engineers
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**

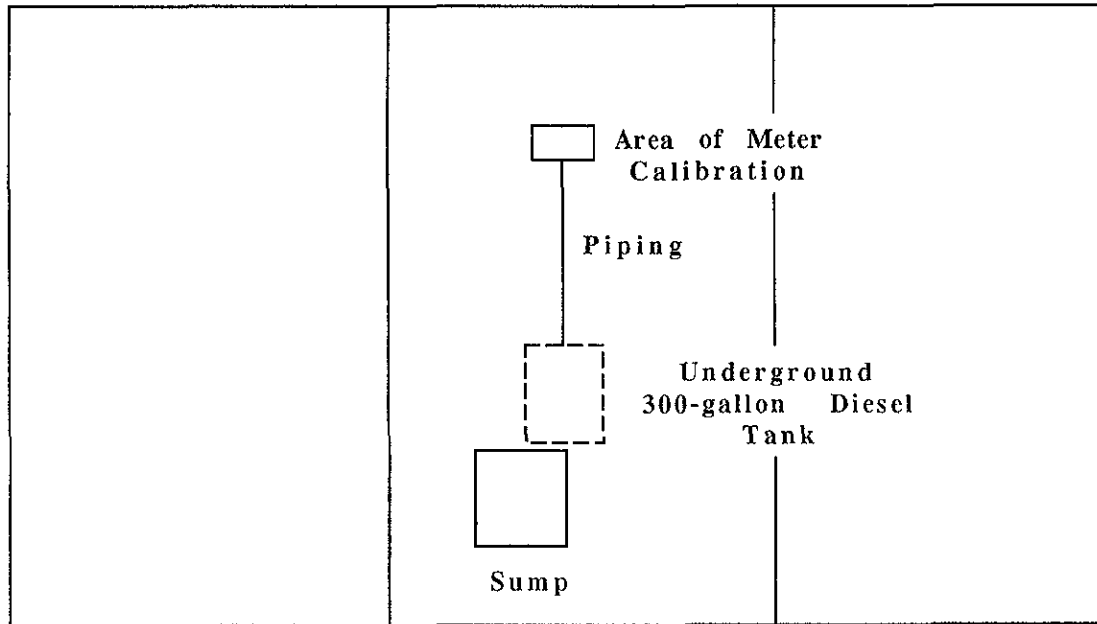


SITE LOCATION MAP

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

Aqua Science Engineers

BUILDING



67th STREET

SITE PLAN
MAP

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

AQUA SCIENCE ENGINEERS

CONTRACTORS STATE LICENSE BOARD

No. 487000

Building Quality

ISSUED 02-13-88

This license is the property of the Registrar of Contractors, is not transferable, and shall be returned to the Registrar upon demand when suspended, revoked, or invalidated for any reason. It becomes void if not renewed.

Contractor's License


Pursuant to the provisions of Chapter 9 of Division 3 of the Business and Professions Code and the Rules and Regulations of the Contractors State License Board, the Registrar of Contractors does hereby issue this license to:

AQUA SCIENCE ENGINEERS, INC.

to engage in the business or act in the capacity of a contractor in the following classification(s):

A GENERAL ENGINEERING CONTRACTOR


WITNESS my hand and sealed this
12TH day of FEBRUARY 1988.


 State of California
CONTRACTORS STATE LICENSE BOARD
 ACTIVE LICENSE

License Number **487000** Entity **CORP**

Business Name **AQUA SCIENCE ENGINEERS INC.**

Classification **A C57 HAZ**

Expiration Date **02/28/98**


J. K. Maloney

Registrar of Contractors

Signature of Licensee

William F. Reid

Signature of person who qualified
on behalf of the licensee

STATE AND CONSUMER SERVICES AGENCY
DEPARTMENT OF CONSUMER AFFAIRS

PERMIT

Permit Issued To

(Insert Employer's Name, Address and Telephone No.)

AQUA SCIENCE ENGINEERS INC 2411 OLD CROW CANYON RD., #4 SAN RAMON, CA 94583 (510) 820-9391

No. Headquarters
 Date 12/5/95
 Region 2
 District 2
 Tel. (510) 602-6517

Type of Permit T1-ANNUAL TRENCH/EXCAVATION

Pursuant to Labor Code Sections 6500 and 6502, this Permit is issued to the above-named employer for the projects described below.

State Contractor's License Number		487000	Permit Valid through		December 31, 1996
Description of Project	Location Address	City and County	Anticipated Dates		
			Starting	Completion	
Various	Statewide		1/1/96	12/31/96	

This Permit is issued upon the following conditions:

1. That the work is performed by the same employer. If this is an annual permit the appropriate District Office shall be notified, in writing, of dates and location of job site prior to commencement.
2. The employer will comply with all occupational safety and health standards or orders applicable to the above projects, and any other lawful orders of the Division.
3. That if any unforeseen condition causes deviation from the plans or statements contained in the Permit Application Form the employer will notify the Division immediately.
4. Any variation from the specification and assertions of the Permit Application Form or violation of safety orders may because to revoke the permit.
5. This permit shall be posted at or near each place of employment as provided in 8 CCR 341.4

Received From David Allen	Received By Bob Low	
<input type="checkbox"/> Cash	Amount	Date
<input checked="" type="checkbox"/> Check 17552	\$100.00	12/5/95

Investigated by _____ Safety Engineer _____ Date _____
 Approved by *W. Law* Permit Unit 12/6/95 Date _____

ACORD CERTIFICATE OF INSURANCE

OP. ID. LA
AQUAS-1

DATE (MM/DD/YY)
07/28/95

PRODUCER
Sattler Insurance Agency, Inc.
1500 Newell Ave., Suite 101
P. O. Box 186
Walnut Creek CA 94596

David Carson
910-937-9991
INSURED

Aqua Science Engineers, Inc.
2411 Old Crow Canyon Road #4
San Ramon CA 94583

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

COMPANIES AFFORDING COVERAGE

COMPANY A	Superior National Insurance
COMPANY B	
COMPANY C	
COMPANY D	

COVERAGES

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED, NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

CO. TR.	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS
	<input type="checkbox"/> GENERAL LIABILITY <input type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS MADE <input type="checkbox"/> OCCUR <input type="checkbox"/> OWNER'S & CONTRACTOR'S PROT				GENERAL AGGREGATE \$ PRODUCTS - COMP/OP AGG \$ PERSONAL & ADV INJURY \$ EACH OCCURRENCE \$ FIRE DAMAGE (Any one fire) \$ MED EXP (Any one person) \$
	<input type="checkbox"/> AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS				COMBINED SINGLE LIMIT \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE \$
	<input type="checkbox"/> GARAGE LIABILITY <input type="checkbox"/> ANY AUTO				AUTO ONLY - EA ACCIDENT \$ OTHER THAN AUTO ONLY \$ EACH ACCIDENT \$ AGGREGATE \$
	<input type="checkbox"/> EXCESS LIABILITY <input type="checkbox"/> UMBRELLA FORM <input type="checkbox"/> OTHER THAN UMBRELLA FORM				EACH OCCURRENCE \$ AGGREGATE \$ \$
A	<input type="checkbox"/> WORKERS COMPENSATION AND EMPLOYERS' LIABILITY THE PROPRIETOR/PARTNERS/EXECUTIVE OFFICERS ARE: <input type="checkbox"/> INCL <input type="checkbox"/> EXCL	WDN19607-A	08/01/95	08/01/96	<input checked="" type="checkbox"/> STATUTORY LIMITS EACH ACCIDENT \$ 1,000,000 DISEASE - POLICY LIMIT \$ 1,000,000 DISEASE - EACH EMPLOYEE \$ 1,000,000
	OTHER				

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS

Verification of Coverage
CONTRACTORS LICENSE NO. 487000

CERTIFICATE HOLDER

FREMONT

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 10 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

David Carson

ACORD CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YY)
06/30/95

PRODUCER
BENTWOOD SURPLUS LINES AGENCY
15851 DALLAS PARKWAY #865
DALLAS, TEXAS 75248
Sattler Insurance(510)937-9991

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

COMPANIES AFFORDING COVERAGE

COMPANY
A Credit General Insurance Company

COMPANY
B

COMPANY
C

COMPANY
D

INSURED
Aqua Science Engineers, Inc.
2411 Old Crow Canyon Rd #4
San Ramon, CA 94583
(510)820-9391

COVERAGES

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED, NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

CO LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS
A	<input type="checkbox"/> GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input checked="" type="checkbox"/> CLAIMS MADE <input type="checkbox"/> OCCUR <input type="checkbox"/> OWNER'S & CONTRACTOR'S PROT <input checked="" type="checkbox"/> Professional/ Pollution Lia	EOC895-490-02	05-20-95	05-20-96	GENERAL AGGREGATE \$ 1,000,000 PRODUCTS - COMP/OP AGG \$ 1,000,000 PERSONAL & ADV INJURY \$ 1,000,000 EACH OCCURRENCE \$ 1,000,000 FIRE DAMAGE (Any one fire) \$ 50,000 MED EXP (Any one person) \$ 5,000
	<input type="checkbox"/> AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS				COMBINED SINGLE LIMIT \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE \$
	<input type="checkbox"/> GARAGE LIABILITY <input type="checkbox"/> ANY AUTO				AUTO ONLY - EA ACCIDENT \$ OTHER THAN AUTO ONLY: \$ EACH ACCIDENT \$ AGGREGATE \$
	<input type="checkbox"/> EXCESS LIABILITY <input type="checkbox"/> UMBRELLA FORM <input type="checkbox"/> OTHER THAN UMBRELLA FORM				EACH OCCURRENCE \$ AGGREGATE \$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY THE PROPRIETOR/PARTNERS/EXECUTIVE OFFICERS ARE <input type="checkbox"/> INCL <input type="checkbox"/> EXCL				WC STATUTORY LIMITS BOTH \$ EL EACH ACCIDENT \$ EL DISEASE - POLICY LIMIT \$ EL DISEASE - EA EMPLOYEE \$
	OTHER				

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS

The certificate holder is added as additional insured, but only as respects to work performed by the insured. This endorsement does not include professional liability.

CERTIFICATE HOLDER

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE





HEALTH & SAFETY PLAN

for:

**GEO M. MARTIN COMPANY
1308 67th STREET
EMERYVILLE, CA 94608**

prepared by:

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

AQUA SCIENCE ENGINEERS, INC.
HEALTH & SAFETY PLAN
for the
GEO M. MARTIN COMPANY

A. GENERAL DESCRIPTION

Site: 1308 67th Street, Emeryville, CA 94608

Work Scope:

AQUA SCIENCE ENGINEERS WILL REMOVE AND DISPOSE OF 1 UNDERGROUND STORAGE TANK, WHICH IS CONSTRUCTED OF STEEL AND HAS THE CAPACITY AND FORMER CONTENTS AS FOLLOWS: (1) 300-GALLON DIESEL FUEL

SAFETY POLICY:

This Health and Safety Plan is written specifically for the jobsite, located at 1308 67th Street, Emeryville, California. All persons on site will follow OSHA safe operating practices as outlined in 29 CFR 1910 and 1926, as well as established guidelines from their respective companies or organizations.

Plan Prepared by: Scott T. Ferriman Date: 04-26-96

Plan Approved by: David Schultz, P.E. Date: 04-26-96

Proposed Start Date: September 1996

Background Review Done? Complete: 04-25-96
Preliminary:

Overall Hazard Level: Serious: Low: XXX
Moderate: Unknown:

Project Organization:

Site Manager for A.S.E.: Scott T. Ferriman
A.S.E. Safety Officer: David Allen
Other A.S.E Personnel: Steve Labar

B. SITE/WASTE CHARACTERISTICS

Waste Type(s): Solid: XXX Sludge: Liquid: XXX Gas:

Characteristics: HYDROCARBON RESIDUALS, TOXIC

Site Parameter:

A MINIMUM BOUNDARY OF THREE FEET SURROUNDING THE TANK EXCAVATION, AND BORING LOCATIONS IS TO BE MAINTAINED IN AS MUCH AS IS POSSIBLE.

C. HAZARD EVALUATION

CHEMICAL HAZARDS

Potential chemical hazards include skin and eye contact or inhalation exposure to potentially toxic concentrations of hydrocarbon vapors. The potential toxic compounds that may exist at the site are listed below, with descriptions of specific health effects of each. The list includes the primary potential toxic constituents of gasoline and waste oil known to be on site. Exposure levels and symptoms are taken from the NIOSH Pocket Guide to Chemical Hazards.

1. BENZENE

- a. Colorless, clear, highly flammable liquid with characteristic odor.
- b. High exposure levels may cause acute restlessness, convulsions, depression, respiratory failure. BENZENE IS A KNOWN CARCINOGEN.
- c. Permissible exposure level (PEL) for a time weighted average (TWA) over an eight hour period is 1.0 ppm.

2. TOLUENE

- a. Colorless liquid with a benzene-like odor.
- b. High exposure levels may cause fatigue, euphoria, confusion, dizziness. TOLUENE IS LESS TOXIC THEN BENZENE.
- c. PEL for a ten hour TWA is 100 ppm.

3. XYLENE

- a. Colorless, flammable liquid with aromatic odors.
- b. high exposure levels may case dizziness, drowsiness, narcosis.
- c. PEL for a ten hour TWA is 100 ppm.

4. ETHYLBENZENE

- a. Clear, colorless, highly flammable liquid with characteristic odor.
- b. High exposure levels may cause irritation to skin, nose and throat, dizziness, constriction in chest, loss of consciousness, respiratory failure.
- c. PEL for an eight hour TWA is 100 ppm.

ALL SUBSTANCES AS THEY EXIST ON SITE ARE EXPECTED TO BE STABLE.
PHYSICAL HAZARDS

Under no circumstances will anyone climb on any soil piles. Personnel shall maintain the maximum distance possible from the excavation while performing their activities. Other on-site hazards include physical injuries due to the proximity of workers to engine-driven heavy equipment and tools. Heavy equipment used during excavation may include backhoes, excavators, compressors, jackhammers, and whackers. Only trained personnel will operate machines, tools and equipment; all will be kept clean and in good repair. Minimum safety apparel required around heavy equipment will include a hardhat, steel-toed boots and hearing conservation devices. ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH OSHA GUIDELINES.

Inspections of the excavation, the adjacent areas, and protective systems are to be made by a qualified person while personnel are on site. Attention will be made to note if any evidence of potential cave-in exists.

1. USE SAFETY EQUIPMENT, MASK RESPIRATORS WITH NIOSH APPROVED C-21 CARTRIDGES FOR ORGANIC VAPORS, AS NECESSARY.
2. HAVE AT LEAST TWO DRY CHEMICAL MODEL PA-200 A-B-C FIRE EXTINGUISHER PRESENT.

LEVEL OF PROTECTION.

A contamination Reduction Zone (CRZ) will be maintained and adjusted as work proceeds and moves around the site. The workers on site will wear level 'D' protective clothing. (This protection level may be upgraded after on-site conclusions of data are completed). THE LEVEL OF PROTECTION FOR PERSONNEL WORKING IN THE AREA WILL BE UPGRADED IF; the organic vapor levels in the operator's breathing zone exceeds 5 ppm above background levels continuously for more than five minutes. This will be monitored by use of a hand-held

Organic Vapor Meter (Gastech 1314 Oxygen/ppm Concentration Meter (PID) calibrated with Hexane). In this event, personnel protective equipment will include full face respirators with double-cartridge filters for organic vapors and particulates, in addition to hardhat, steel-toed boots and coveralls. If work proceeds in an environment where vapor concentrations exceed 200 ppm, a self contained breathing apparatus or airline respirator will be utilized by the personnel.

Levels of Protective Clothing are defined on the following pages as described in the "EPA Standard Operating Safety Guidelines":

LEVEL A PROTECTION

Components:

- 1.) Pressure-demand, supplied air respirator that is MSHA and NIOSH approved. Respirators may be pressure demand, self contained breathing apparatus (SCBA), or pressure demand, airline respirator with an escape bottle for atmospheres with an extreme IDLH.
- 2.) Fully encapsulating chemical resistant suit.
- 3.) Inner, chemical resistant gloves.
- 4.) Disposable gloves and boot covers, worn over the fully encapsulating suit.
- 5.) 2-way radio communications is highly recommended.

LEVEL B PROTECTION

Components:

- 1.) Pressure-demand, supplied air respirator that is MSHA and NIOSH approved. Respirators may be pressure demand, self contained breathing apparatus (SCBA), or pressure demand, airline respirator with an escape bottle for atmospheres with an extreme IDLH.
- 2.) Chemical resistant clothing which includes overalls and long sleeved jacket or, hooded one or two piece chemical splash suit or disposable chemical resistant one piece suit..
- 3.) Outer chemical resistant gloves.
- 4.) Inner chemical resistant gloves.
- 5.) Chemical resistant, steel toed and shank boots.
- 6.) Disposable chemical resistant boot covers.
- 7.) Hardhat.
- 8.) 2-way radio communications is highly recommended.

LEVEL C PROTECTION

Components:

- 1.) Air purifying respirator, full face, with twin cartridge or cannister equipped filters, that are MSHA and NIOSH approved.
- 2.) Chemical resistant clothing which includes coveralls or, hooded one-piece or two-piece chemical splash suit or chemical resistant hood and apron; disposable chemical resistant coveralls.
- 3.) Outer chemical resistant gloves.
- 4.) Inner chemical resistant gloves.
- 5.) Chemical resistant, steel toed and shank boots.
- 6.) Disposable chemical resistant boot covers.
- 7.) Hardhat.

LEVEL D PROTECTION

Components:

- 1.) Coveralls.
- 2.) Gloves.
- 3.) Leather boots, shoes or chemical resistant, with steel toe and shank.
- 4.) Safety glasses or chemical splash goggles.
- 5.) Hardhat or face shield.

SITE ENTRY PROCEDURES

Any personnel entering the site will observe all conditions set forth by the owners/operators of the property, including vehicle travel speeds, restricted areas and conduct. Eating, drinking, smoking and other practices which increase the probability of hand-to-mouth transfer of contamination is prohibited in the work zone. All field personnel will be instructed to thoroughly wash their hands and face upon leaving the work area for breaks or cessation of day's activities.

DECONTAMINATION PROCEDURES

If required, equipment and personnel decontamination areas will be designated by the Project Manager at the start of the project. To prevent the transfer of contamination from the work site into clean areas, all tools will be cleaned adequately prior to final removal from the work zone. Disposable protective clothing such as Tyvek coveralls, latex gloves, boot covers, etc. will be changed on a daily basis or at the discretion of the Project Manager on site. All disposable protective clothing will be put into plastic bags and disposed of in a proper manner. All respirator cartridges will be discarded and replaced with fresh units on a daily basis, disposal will be in the same manner as the protective clothing. Soil will be stockpiled in an area designated by the Project Manager, to be handled as agreed upon in the scope of work contract with the client.

In the event of a medical emergency, the injured party will be taken through decontamination procedures, if possible. However, the procedures may be omitted when it may aggravate or cause further harm to the injured party. member of the work team will accompany the injured party to the medical facility to advise on matters concerning chemical exposure. The injured person will not transport themselves to the medical facility!

Personnel Protection Level will be Level 'D'. Protective clothing levels may be upgraded in the event that on site conclusions determine a greater than anticipated danger to personnel.

Site Entry: BARRICADES, CONES, OR BANNER GUARD MAY BE ERECTED TO CONTROL FOOT TRAFFIC AWAY FROM THE WORK ACTIVITY.

Decontamination-

Personnel and Equipment: IF REQUIRED, PERSONNEL AND EQUIPMENT WILL BE DECONTAMINATED A PER USEPA STANDARD OPERATING SAFETY GUIDELINES. A SMALLER MODIFIED DECONTAMINATION LINE MAY BE USED DUE TO SPACE RESTRICTIONS.

Work Limitations (time, weather):

NONE ARE ANTICIPATED, HOWEVER, PERSONNEL WORKING ON SITE MAY EXPERIENCE ELEVATED TEMPERATURES DURING THE WORK DAY. IN THE EVENT THAT AMBIENT TEMPERATURES REACH OR EXCEED 80 DEGREES FAHRENHEIT, THE FOLLOWING GUIDELINES ARE RECOMMENDED.

1. Periods of work should be reduced to no less than one hour time frames and separated by breaks intended to reduce personnel stress due to reduced natural ventilation from wearing protective clothing.
2. All personnel wearing level C protective clothing or greater, will be subject to medical monitoring of body temperature after work periods, by the following guidelines;
 - a. Heart Rate (HR) should be measured by counting the radial pulse rate for 30 seconds and doubling count for the correct pulse rate. This should be done as early as possible in the resting period. The HR at the beginning of the rest period should not exceed 110 beats per minute. If the HR is higher, the next work period should be shortened by 10 minutes, while the length of the rest period remains the same. If the HR is 100 beats per minute at the beginning of the next rest period, the following work period should be shortened by an additional 10 minutes.
 - b. Body temperatures should be measured orally with a clinical thermometer as soon as possible in each resting period. Oral Temperatures (OT) should not exceed 99 degrees Fahrenheit. If it does, the next work period should be reduced by 10 minutes while the length of the resting period remains the same. If the OT exceeds 99 degrees Fahrenheit at the beginning of the next work period, the following work period should be reduced by an additional 10 minutes. OT should be

measured at the end of each rest period to ensure that the body's temperature has dropped below 99 degrees Fahrenheit.

Body Water Loss (BWL) from sweating, could result in dehydration and further complications and stress on personnel working in protective clothing under adverse weather conditions. It is strongly recommended that plenty of stress relief beverages be available on site to replace body fluids. Commercial drink mixes that provide electrolyte balancing solutions or water are adequate for replacing body fluids.

Alternate methods of heat stress reduction can be made available such as,

- Portable showers or hose-down facilities,
- Shelter cover to protect against direct sunlight,
- Rotating teams of personnel wearing protective clothing,
- Performing extremely arduous tasks early in the workday.

EMERGENCY INFORMATION

In the event of an injury or suspected chemical exposure, the first responsibility of the Project Manager will be to prevent any further injury. This objective will normally require an immediate stop to work until the situation is remedied. The Project Manager may order the evacuation of the work party. Other primary responsibilities in the event of an accident will be the first aid and decontamination of the injured team member(s). The injured party will be moved to a designated safe area and initial first aid will be rendered.

Employees are asked to make every effort and take personnel responsibility to prevent accidents involving machinery or any other aspect of the job, either by individual action or by notifying the Project Manager immediately of any unsafe condition that may exist.

In the event of an unexpected hazardous material discovery on site, the following actions will be taken by any employee involved;

1. The person having uncovered the unexpected material will notify the Project Manager and other workers of the danger. The site will be cleared of personnel if deemed necessary by the Project Manager. If site evacuation is required, appropriate local agencies such as the Fire Department or Health Department will be notified as well.

2. Immediate action will be taken to contain the hazardous material, provided the workers involved are properly attired with adequate protective clothing to avoid exposure.

3. Proper containment procedures will be determined for the hazardous material encountered prior to cleanup commencing. All personnel involved in the containment effort will be properly protected to prevent exposure. Backup personnel will be similarly protected while monitoring the work being done for any additional dangers.

4. The container(s) will be staged on site, away from the major activity areas and in such a way that if loss of containment occurs, the material will be withheld from further spread by a secondary containment berm or vessel.

5. The owner or agent controller of the property will be notified promptly of the incident and will be apprised as to the options available for proper disposal.

EXPOSURE SYMPTOMS AND FIRST AID

<u>EXPOSURE ROUTE</u>	<u>SYMPTOMS</u>	<u>FIRST AID</u>
Skin	Dermatitis, itching redness, swelling	Wash immediately with soap and water contact ambulance if evacuation is needed.
Eyes	Irritation, watering	Flush with water, transport directly to emergency room, if necessary.
Inhalation	Vertigo, tremors	Move person to fresh air, cover source of exposure.
Ingestion	Nausea, vomiting	Call Poison Control Center, DO NOT <u>INDUCE</u> VOMITING, transport to medical facility.

Local Resources:

HEALTH AND SAFETY CONTACT FOR ASE:

Scott Ferriman
Office: (510) 820-9391
Police | : 911
Fire |

POISON CONTROL: SF (415) 476-6600
SJ (800) 798-0720

ROUTE TO NEAREST HOSPITAL:

Exit site East on 67th Street
Left on San Pablo Avenue
Right on Ashby Avenue

HOSPITAL IS ON THE RIGHT SIDE (see attached Hospital Location Map)

Hospital: Alta-Bates Medical Center
2450 Ashby Avenue, Berkeley, CA 94705
PHONE: 510-204-1303

AQUA SCIENCE ENGINEERS INC.

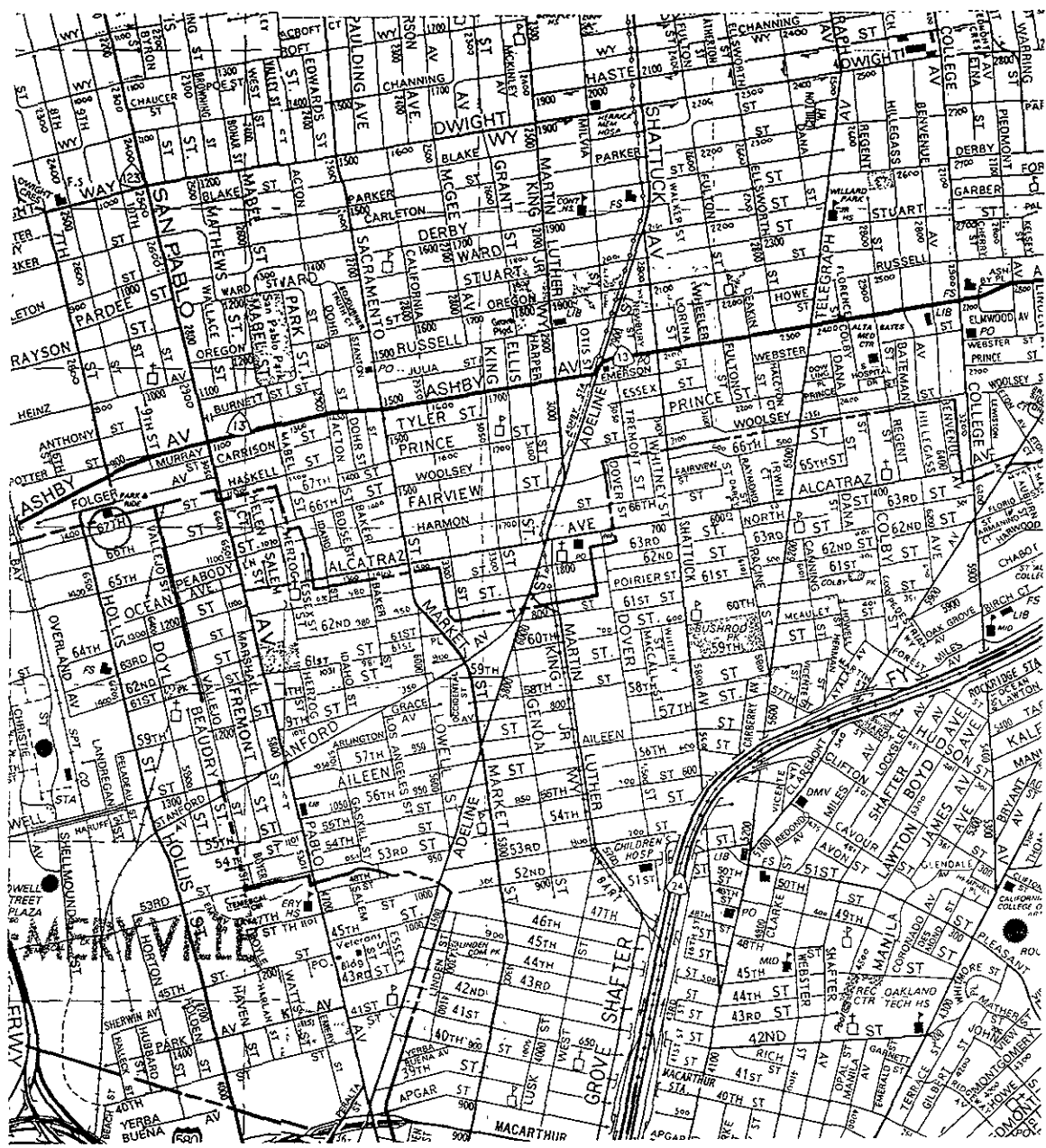
HAZARDOUS MATERIALS SITE SAFETY PLAN

The below signed personnel have read this plan, understand it's contents and agree to follow the guidelines set forth;

EMPLOYEE NAME (print)

SIGNATURE

DATE



HOSPITAL LOCATION MAP

GEO M. MARTIN COMPANY
EMERYVILLE, CALIFORNIA

Aqua Science Engineers

Stud # 318

1 ust RE~~MOVED~~ ^{4/20/96} ~~9736~~ overseen by BO

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



COMPLETE THIS FORM FOR EACH FACILITY/SITE

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

I. FACILITY/SITE INFORMATION & ADDRESS - (MUST BE COMPLETED)

DBA OR FACILITY NAME <i>Geo M. Martin Company</i>		NAME OF OPERATOR <i>David Goodearl</i>			
ADDRESS <i>1308 Sixty-Seventh Street</i>		NEAREST CROSS STREET <i>Hollis Street</i>	PARCEL # (OPTIONAL)		
CITY NAME <i>Emeryville</i>		STATE <i>CA</i>	ZIP CODE <i>94608</i>	SITE PHONE # WITH AREA CODE <i>570-652-2200</i>	
<input checked="" type="checkbox"/> BOX TO INDICATE <input checked="" type="checkbox"/> CORPORATION <input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> LOCAL-AGENCY DISTRICTS <input type="checkbox"/> COUNTY-AGENCY <input type="checkbox"/> STATE-AGENCY <input type="checkbox"/> FEDERAL-AGENCY					
TYPE OF BUSINESS <input type="checkbox"/> 1 GAS STATION <input type="checkbox"/> 2 DISTRIBUTOR <input type="checkbox"/> 3 FARM <input type="checkbox"/> 4 PROCESSOR <input checked="" type="checkbox"/> 5 OTHER		<input type="checkbox"/> IF INDIAN RESERVATION OR TRUST LANDS	# OF TANKS AT SITE <i>10</i>	E. P. A. I. D. # (optional)	

EMERGENCY CONTACT PERSON (PRIMARY)

EMERGENCY CONTACT PERSON (SECONDARY) - optional

DAYS: NAME (LAST, FIRST) <i>David Goodearl</i>	PHONE # WITH AREA CODE <i>570-652-2200</i>	DAYS: NAME (LAST, FIRST) <i>Scott Ferriman</i>	PHONE # WITH AREA CODE <i>570-820-9391</i>
NIGHTS: NAME (LAST, FIRST) <i>Scott Ferriman</i>	PHONE # WITH AREA CODE <i>570-355-4485</i>	NIGHTS: NAME (LAST, FIRST)	PHONE # WITH AREA CODE

II. PROPERTY OWNER INFORMATION - (MUST BE COMPLETED)

NAME <i>Geo M. Martin Co.</i>		CARE OF ADDRESS INFORMATION <i>David Goodearl</i>		
MAILING OR STREET ADDRESS <i>1250 Sixty-Seventh St.</i>		<input checked="" type="checkbox"/> box to indicate <input checked="" type="checkbox"/> CORPORATION <input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> LOCAL-AGENCY <input type="checkbox"/> STATE-AGENCY <input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> COUNTY-AGENCY <input type="checkbox"/> FEDERAL-AGENCY		
CITY NAME <i>Emeryville</i>		STATE <i>CA</i>	ZIP CODE <i>94608</i>	PHONE # WITH AREA CODE <i>570-652-2200</i>

III. TANK OWNER INFORMATION - (MUST BE COMPLETED)

NAME OF OWNER <i>Geo M. Martin Co.</i>		CARE OF ADDRESS INFORMATION <i>David Goodearl</i>		
MAILING OR STREET ADDRESS <i>1250 Sixty-Seventh Street</i>		<input checked="" type="checkbox"/> box to indicate <input checked="" type="checkbox"/> CORPORATION <input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> LOCAL-AGENCY <input type="checkbox"/> STATE-AGENCY <input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> COUNTY-AGENCY <input type="checkbox"/> FEDERAL-AGENCY		
CITY NAME <i>Emeryville</i>		STATE <i>CA</i>	ZIP CODE <i>94608</i>	PHONE # WITH AREA CODE <i>570-652-2200</i>

IV. BOARD OF EQUALIZATION UST STORAGE FEE ACCOUNT NUMBER - Call (916) 323-9555 if questions arise.

TY (TK) HQ -

V. PETROLEUM UST FINANCIAL RESPONSIBILITY - (MUST BE COMPLETED) - IDENTIFY THE METHOD(S) USED

<input checked="" type="checkbox"/> box to indicate	<input type="checkbox"/> 1 SELF-INSURED	<input type="checkbox"/> 2 GUARANTEE	<input checked="" type="checkbox"/> 3 INSURANCE	<input type="checkbox"/> 4 SURETY BOND
	<input type="checkbox"/> 5 LETTER OF CREDIT	<input type="checkbox"/> 6 EXEMPTION	<input type="checkbox"/> 99 OTHER	

VI. LEGAL NOTIFICATION AND BILLING ADDRESS

Legal notification and billing will be sent to the tank owner unless box I or II is checked.

CHECK ONE BOX INDICATING WHICH ABOVE ADDRESS SHOULD BE USED FOR LEGAL NOTIFICATIONS AND BILLING: I. II. III.

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

APPLICANT'S NAME (PRINTED & SIGNATURE) <i>Scott Ferriman, Scott T. Ferriman</i>	APPLICANT'S TITLE <i>Environmental Specialist</i>	DATE - MONTH/DAY/YEAR <i>4-29-96</i>
--	--	---

LOCAL AGENCY USE ONLY

COUNTY # <i>071</i>	JURISDICTION # <i>000</i>	FACILITY # <i>054436</i>
LOCATION CODE - OPTIONAL	CENSUS TRACT # - OPTIONAL	SUPVISOR - DISTRICT CODE - OPTIONAL

THIS FORM MUST BE ACCOMPANIED BY AT LEAST (1) OR MORE PERMIT APPLICATION - FORM B, UNLESS THIS IS A CHANGE OF SITE INFORMATION ONLY.
FORM A (5-91)

F0R0033A-5

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 checked="" 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 type="checkbox"/> 8 TANK REMOVED

DBA OR FACILITY NAME WHERE TANK IS INSTALLED:

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:	300

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

A. <input checked="" type="checkbox"/> 1 MOTOR VEHICLE FUEL	<input type="checkbox"/> 4 OIL	B. <input checked="" type="checkbox"/> 1 PRODUCT	C. <input type="checkbox"/> 1a REGULAR UNLEADED	<input checked="" type="checkbox"/> 3 DIESEL	<input type="checkbox"/> 6 AVIATION GAS
<input type="checkbox"/> 2 PETROLEUM	<input type="checkbox"/> 80 EMPTY	<input 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"/> 95 UNKNOWN		<input type="checkbox"/> 2 LEADED	<input type="checkbox"/> 5 JET FUEL	<input type="checkbox"/> 99 OTHER (DESCRIBE IN ITEM D. 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"/> 95 UNKNOWN
	<input checked="" type="checkbox"/> 2 SINGLE WALL	<input type="checkbox"/> 4 SECONDARY CONTAINMENT (VAULTED TANK)	<input type="checkbox"/> 99 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"/> 5 CONCRETE	<input type="checkbox"/> 6 POLYVINYL CHLORIDE	<input type="checkbox"/> 7 ALUMINUM
	<input type="checkbox"/> 9 BRONZE	<input type="checkbox"/> 10 GALVANIZED STEEL	<input type="checkbox"/> 95 UNKNOWN
			<input type="checkbox"/> 99 OTHER
C. INTERIOR LINING	<input type="checkbox"/> 1 RUBBER LINED	<input type="checkbox"/> 2 ALKYD LINING	<input type="checkbox"/> 3 EPOXY LINING
	<input type="checkbox"/> 5 GLASS LINING	<input checked="" type="checkbox"/> 6 UNLINED	<input type="checkbox"/> 4 PHENOLIC LINING
			<input type="checkbox"/> 95 UNKNOWN
			<input type="checkbox"/> 99 OTHER
	IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? YES ___ NO ___		
D. CORROSION PROTECTION	<input type="checkbox"/> 1 POLYETHYLENE WRAP	<input type="checkbox"/> 2 COATING	<input type="checkbox"/> 3 VINYL WRAP
	<input type="checkbox"/> 5 CATHODIC PROTECTION	<input type="checkbox"/> 91 NONE	<input checked="" type="checkbox"/> 95 UNKNOWN
			<input type="checkbox"/> 4 FIBERGLASS REINFORCED PLASTIC
			<input type="checkbox"/> 99 OTHER
E. SPILL AND OVERFILL	SPILL CONTAINMENT INSTALLED (YEAR) _____		OVERFILL PREVENTION EQUIPMENT INSTALLED (YEAR) _____

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"/> 99 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"/> 95 UNKNOWN
				A U <input type="radio"/> 99 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/FRP
	A U <input type="radio"/> 9 GALVANIZED STEEL	A U <input type="radio"/> 10 CATHODIC PROTECTION	A U <input type="radio"/> 95 UNKNOWN	A U <input type="radio"/> 99 OTHER
D. LEAK DETECTION	<input type="checkbox"/> 1 AUTOMATIC LINE LEAK DETECTOR	<input checked="" type="checkbox"/> 2 LINE TIGHTNESS TESTING	<input type="checkbox"/> 3 INTERSTITIAL MONITORING	<input type="checkbox"/> 99 OTHER

V. TANK LEAK DETECTION

<input type="checkbox"/> 1 VISUAL CHECK	<input type="checkbox"/> 2 INVENTORY RECONCILIATION	<input type="checkbox"/> 3 VADOZE MONITORING	<input type="checkbox"/> 4 AUTOMATIC TANK GAUGING	<input type="checkbox"/> 5 GROUND WATER MONITORING
<input checked="" type="checkbox"/> 6 TANK TESTING	<input type="checkbox"/> 7 INTERSTITIAL MONITORING	<input type="checkbox"/> 91 NONE	<input type="checkbox"/> 95 UNKNOWN	<input type="checkbox"/> 99 OTHER

VI. TANK CLOSURE INFORMATION

1. ESTIMATED DATE LAST USED (MO/DAY/YR) unknown	2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING 0 GALLONS	3. WAS TANK FILLED WITH INERT MATERIAL? YES <input checked="" 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

APPLICANT'S NAME (PRINTED & SIGNATURE) Scott T. Ferriman	DATE 4-29-96
---	-----------------

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

STATE I.D.#	COUNTY #	JURISDICTION #	FACILITY #	TANK #
	01	000	054436	000001
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.
FILE THIS FORM WITH THE LOCAL AGENCY IMPLEMENTING THE UNDERGROUND STORAGE TANK REGULATIONS

BILLING ADJUSTMENT FORM

Date: 3/4/96

STID#: 318

Caller: _____ Phone: _____
Company Name: Challenge Manufacturing

Site Address: 1308 67th St City: Emery Zip: 94608

Billing Acct#	
<input type="checkbox"/> Generator....H	_____
<input type="checkbox"/> HMMP.....L	_____
<input checked="" type="checkbox"/> UST.....T	<u>B1083</u>

REQUESTED CHANGES: _____

*UAST
AET
Above ground tanks*

[] Rescind Bill with explanation and date:

- Generator _____
- HMMP (AB2185) _____
- UST _____

[] Continue billing with following changes:

- Change number of EMPLOYEES From: _____ To: _____
- Change number of TANKS From: 2 To: 1
- HMMP (AB2185) - See Attachment
- Updated information below:

Business Name _____ Phone _____

Site address _____ City _____ Zip _____

Business Owner George Martin Phone _____

BILLING address _____ City _____ Zip _____

Inspector's Signature: Bruce P. Oel

Date: 3/4/96

[X] Sent to billing
on 3/4/96

BILLING ADJUSTMENT FORM

Date: 2-27-96

STID#: 318

Caller: _____ Phone: _____

Company Name: Challenge Manufacturing

Site Address: 1308 67th St. City Emeryville Zip 94608

REQUESTED CHANGES: Removed 1 ust removed 9/20/96
Overseen by B. Oliva; 1 left on site

Billing Acct#	
<input type="checkbox"/> Generator....H	_____
<input type="checkbox"/> HMMP.....L	_____
<input checked="" type="checkbox"/> UST.....T	<u>B1083</u>

[] Rescind Bill with explanation and date:

- Generator _____
- HMMP (AB2185) _____
- UST _____

[] Continue billing with following changes:

- | | | |
|--|----------|----------|
| | From: | To: |
| <input type="checkbox"/> Change number of EMPLOYEES | _____ | _____ |
| <input checked="" type="checkbox"/> Change number of TANKS | <u>2</u> | <u>1</u> |
| <input type="checkbox"/> HMMP (AB2185) - See Attachment | | |
| <input type="checkbox"/> Updated information below: | | |

Business Name _____ Phone _____

Site address _____ City _____ Zip _____

Business Owner _____ Phone _____

BILLING address _____ City _____ Zip _____

Inspector's Signature: Bruce P. Al

Date: 10/2/96

<input checked="" type="checkbox"/> Sent to billing
on <u>10-2-96</u>

BILLING ADJUSTMENT FORM

Date: 2/8/96

STID#: 318

Caller: Jack Solomon Phone: 652-8847

Company Name: CHALLENGE Manufacturing

Site Address: 1308 67th City Emeryville Zip 608

Billing Acct#	
<input type="checkbox"/> Generator....H	_____
<input type="checkbox"/> HMMP.....L	_____
<input checked="" type="checkbox"/> UST.....T	<u>B1083</u>

REQUESTED CHANGES: CHANGE Billing information for underground storage tanks located at the Above address
Owner of tanks George M Martin Co. 1250 67th ST Emeryville

[] Rescind Bill with explanation and date:

- Generator _____
- HMMP (AB2185) _____
- UST _____

[] Continue billing with following changes:

- | | | |
|--|-------|-------|
| | From: | To: |
| <input type="checkbox"/> Change number of EMPLOYEES | _____ | _____ |
| <input type="checkbox"/> Change number of TANKS | _____ | _____ |
| <input type="checkbox"/> HMMP (AB2185) - See Attachment | | |
| <input checked="" type="checkbox"/> Updated information below: | | |

Business Name _____ Phone _____

Site address _____ City _____ Zip _____

Business Owner George M. Martin Co. Phone _____

BILLING address George M Martin Co City Emeryville Zip 94608
1250 67th street

Inspector's Signature: Bruce P. Olson

Date: 2/8/96

Sent to billing
on 2/7/96



Division of Challenge Manufacturing Co., Inc. of LA

1308 67th STREET OAKLAND, CA 94608

PHONE: (510) 652-8847

FAX: (510) 652-1565

February 5, 1996

Mr Brian Oliva
County of Alameda
Health Care Services Agency
Drawer N
Alameda, CA 94501

Re: Account TB1083; Invoice 0011384

Dear Mr Oliva:

We request your assistance. The records continue to show two underground storage tanks at the site of our business. Several times during the past eight and a half years, we have tried to correct the records as they pertain to these tanks. Copies of our October 1987, March 1990, and November 1995 letters are attached.

As recently as November 1995, when we received the current invoice for the tank fees, we advised your agency that the tanks were not in use, had not been for over 25 years and that there has not been an intention to use them. Your inspection report of 5-12-93 confirms this; a copy is enclosed.

Because we keep receiving invoices with delinquency charges, our financial manager called Mildred in your billing office. She requested that we talk to you, which Mr. Solomon did. We would appreciate a continuation of your efforts to get this matter resolved and closed.

As you may recall, we identified the supposed existance of these tanks in a spirit of cooperation with the regulations. We knew full well that the tanks had not been in use for years, and that there is no intention of ever using them again.

In light of Governor Wilson's order to halt all underground tank clean-up operations, and the recognition by the EPA that natural processes in the ground remove most possibly toxic ingredients, we feel that there is no possible reason to be concerned about the tanks on this site. As they were abandoned years ago and probably were never a leak hazard, we feel they should be eliminated from the system.

A copy of the January 19, 1996 Tulsa Newsletter is enclosed for your information.

Unfortunately, our company inadvertantly continued to pay the fees, which has kept the issue alive. Since these charges were erroneous, we respectfully request a refund of those past payments.

Sincerely,

Handwritten signature of Hank Cloots in cursive script.
Hank Cloots
General Manager

ENVIRONMENTAL HEALTH
ADMINISTRATION
56 FEB -6 PM 3:40

HC/js
Encl.

[JAN 22 1996]

PEI
PETROLEUM EQUIPMENT INSTITUTE

TulsaLetter

PO Box 2380 Tulsa, OK 74101-2380 (918) 494-9696 Fax (918) 491-9895

January 19, 1996

Dear PEI Member:

Last week, Governor Pete Wilson (R-CA) ordered a halt to all underground storage tank cleanup operations in California. The best report on Wilson's action that we could find comes from an article that appeared in the January 11, 1996, edition of the *Los Angeles Times*. That article, written by *Times* environmental writer Frank Clifford, follows.

After a billion dollars has been spent in California removing contamination left by leaking underground gas tanks, a new study minimizing the dangers has prompted the Wilson administration to put the brakes on the costly cleanup program. The report, which has the backing of the U.S. Environmental Protection Agency and some funding from the oil industry, concluded that natural processes in the ground remove most of the toxic ingredients left by underground petroleum leaks.

Three-quarters of the state's 28,000 contaminated sites have not been cleaned up, and state officials had estimated that it would cost another \$3 billion to get the job done. The state has been paying for the cleanups through a special levy on the owners of oil tanks. That tax was expected to raise only about 50% of the money needed to finish the job.

Under the new policy, however, the majority of the remaining sites probably won't be cleaned up, except for removing the leaking tanks, say officials of the California Water Resources Control Board. "This represents a major departure from the way we have been doing things," said James Giannopoulos, manager of the water board's underground tank program.

The board has advised its nine regional offices to halt cleanup operations at sites more than 250 feet from drinking water wells. The advisory does not recommend outright abandonment of such sites. They should be monitored, it said, to make sure that the fuel leaks do not eventually imperil water resources.

Environmentalists, including officials of the Sierra Club, have accused the Wilson administration of acting irresponsibly in a state in which 50% of the population depends on groundwater for domestic supplies. "This could shut down treatment of 80% to 90% of all sites with virtually no investigation of many of them," said Bonnie Holmes, the Sierra Club's state legislative director.

Some of the regional water officials responsible for the cleanups argue that the state is moving too fast, acting on the basis of a narrowly focused study that looked at contaminants in just one of several types. "It will trigger demands that we close sites before we have sufficient information about a lot of them," said Gordon Boggs, who heads the Central Valley's regional water quality control board office. Boggs said 1,000 contaminated locations in his region have yet to be investigated.

On the other hand, Patricia Eklund, chief of underground storage tank regulation for the EPA's western region, applauded the state's reaction to the study. "They are going to focus their efforts on the high-priority sites, and that's as it should be," Eklund said.

The yearlong study prompting the state's policy shift was conducted by the Lawrence Livermore National Laboratory and largely paid for with a \$300,000 grant from the EPA. The Shell Oil Co. contributed about \$30,000, according to Walt Petit, executive director of the water board.

The study takes direct aim at the assumption driving the expensive decade-long cleanup campaign--that benzene, a cancer-causing component of petroleum, threatens the state's drinking water supply. "Fuel hydrocarbons have limited impacts on human health, the environment or California's groundwater resources," the study concluded. "The costs of cleaning up FHCs are often inappropriate when compared to the magnitude of the impact on groundwater resources." The study, based on a review of 1,500 contaminated sites, concluded that in most cases subsurface microorganisms devour benzene and other toxins before they can pollute groundwater sources.

"The real point here is that in many cases natural processes degrade fuel hydrocarbons at approximately the same rate as technology," said David Rice, an environmental scientist at Lawrence Livermore who coauthored the study.

Where groundwater has been affected, the study says, "well construction standards" have protected all but a tiny fraction of the state's drinking water. By law, California's drinking water must not contain more than one part per billion of benzene. The state standard is five times as strict as the federal limit, Rice said.

The study determined that "the total potential volume of groundwater impacted greater than one part per billion benzene was estimated to be 0.0005% of California's total groundwater basin storage capacity."

The report did not conclude that treatment is never necessary. It found that of 12,151 wells tested, 48 had measurable benzene concentrations. "Most of the affected wells are shallow private domestic wells in close proximity to the (contamination) release sites."

But Rice conceded that the study had its limits--focusing on the interaction of hydrocarbons with alluvial soil, the kind found under the state's large metropolitan areas where most gas stations and fuel tanks are located. He said researchers did not look at what happens to the contaminants in sand and gravel or in fractured bedrock.

The state's decision to scale down cleanup operations represents a victory for a small association of underground tank owners that had been quietly lobbying against the previous policy. "We have been urging the water resources board to subject their policies to scientific review, and they finally did," said Don Zedrick of the Santa Rosa-based Environmental Resources Council.

Even critics of the new policy concede that a lot of money was wasted on dubious cleanup strategies over the years. "I think what California is doing (now) is a bit drastic," said Paul Kostecki, an expert on

contaminated soils and groundwater at the University of Massachusetts School of Public Health. "On the other hand, there was bound to be a reaction. There was so much money flowing into remediation of petroleum contamination, and not enough attention being paid to the results."

* * * * *

California's decision to halt work on sites contaminated by petroleum hydrocarbons came as a mild surprise to most California members and a complete surprise to others. (We broke the news to some when we called to solicit their reaction to the story in the paper.) Although some were familiar with the Lawrence Livermore study, most members did not think the Wilson administration would act as quickly and drastically as it did. They almost unanimously agreed, however, that the cleanup program had cost Californians more than it should have.

It is still a bit too early to report on the effect of the new policy on PEI members in California. All but a few were going about business as usual. A couple of members that we talked with had customers call and halt additional cleanup work until they receive further guidance from the California State Water Resources Control Board.

What will be the effect of California's decision on PEI members across the nation? It's tough to say. We know that many policies and regulations originate in California and spread from there throughout the country. There will be some--state legislators, oil companies and other tank owners, for starters--who will urge adoption of California's new cleanup strategy. This has to be particularly appealing to states with little or no money left in their UST trust funds. Then there will be those who will oppose any change, such as the environmental groups and the tremendous governmental bureaucracy built to support cleanup operations. Our guess right now is that some states will adopt the Mother Nature remediation method over the next several years while the majority of states will continue cleanup operations without change.

We have a copy of the Lawrence Livermore National Laboratory report that the Wilson administration relied on in arriving at their decision to let most of the toxic materials dissipate naturally. Ask PEI for the "Lawrence Livermore Report."

REGULATORY BRIEFS

Arizona. HB 2001, signed into law by Governor Fife Symington the same day the legislature passed the bill, makes available some \$8 million that was supposed to have been transferred out of the Maricopa County UST fund and into the state's vehicle emissions program. The bill shifts the cleanup program from a reimbursement plan to a pre-approval plan.

Georgia. Section 246(a) of the Clean Air Act requires ozone nonattainment areas classified serious and above to implement a Clean Fuel Fleet program. The program is designed to introduce lower-emitting vehicles into centrally fueled fleets in ozone nonattainment areas classified as serious. The Georgia Environmental Protection Division (GEPD) has already established rules (effective May 22, 1994) governing a Clean Fuel Fleet (CFF) program that will be required in the counties of Cherokee, Clayton, Cobb, Coweta, Dekalb, Douglas, Fayette, Forsyth, Fulton, Gwinnett, Henry, Paulding and



Department of Challenge Manufacturing Co. Inc. of LA
1308 67th STREET OAKLAND, CA 94608
PHONE: (510) 652-8847
FAX: (510) 652-1565

November 17, 1995

County of Alameda
Health Care Services Agency
Drawer N
Alameda, CA 94501

Re: Account TB1083
Invoice 0011384

Gentlemen:

We are returning subject invoice unpaid. We have been on record in October 1987 and in March 1990 of stating that the underground tank have been abandoned, and have not been in use for over 25 years. We have no intention of ever using them. This is substantiated by the county inspectors report of May 12, 1993.

Copies of the correspondence and the inspector's report are attached. Please close the account and void this invoice.

As a related matter, it has come to our attention that these fees have been paid erroneously since 1988. We therefore request a refund of the fees previously collected in the amount of \$1,024.00

Thank you for your prompt attention.

Sincerely,

Hank Cloots
General Manager

HC/js

Encl.

white -env.health
 yellow -facility
 pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH
 Hazardous Materials Inspection Form

80 Swan Way, #200
 Oakland, CA 94621
 (415) 271-4320

II, III

Site ID # 318 Site Name Challenge Motel Today's Date 12/12/93

I.I.A BUSINESS PLANS (Title 19)

- 1. Immediate Reporting 2703
- 2. Bus. Plan Stds. 25503(b)
- 3. RR Cars > 30 days 25503.7
- 4. Inventory Information 25504(a)
- 5. Inventory Complete 2730
- 6. Emergency Response 25504(b)
- 7. Training 25504(c)
- 8. Deficiency 25505(a)
- 9. Modification 25505(b)

Site Address 1308 67th

City Saneyville Zip 94608 Phone _____

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

Inspection Categories:

- I. Haz. Mat/Waste GENERATOR/TRANSPORTER
- II. Business Plans, Acute Hazardous Materials
- III. Underground Tanks

I.I.B ACUTELY HAZ. MATLS

- 10. Registration Form Filed 25533(a)
- 11. Form Complete 25533(b)
- 12. RMPP Contents 25534(c)
- 13. Implement Sch. Req'd? (Y/N)
- 14. OffSite Conseq. Assess. 25524(c)
- 15. Probable Risk Assessment 25534(d)
- 16. Persons Responsible 25534(a)
- 17. Certification 25534(f)
- 18. Exemption Request? (Y/N) 25536(b)
- 19. Trade Secret Requested? 25538

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

III. UNDERGROUND TANKS (Title 23)

- General
- 1. Permit Application 25284 (H&S)
 - 2. Pipeline Leak Detection 25292 (H&S)
 - 3. Records Maintenance 2712
 - 4. Release Report 2651
 - 5. Closure Plans 2670

- Monitoring for Existing Tanks
- 6. Method
 - 1) Monthly Test
 - 2) Daily Vadose
 - Semi-annual groundwater
 - One time soils
 - 3) Daily Vadose
 - One time soils
 - Annual tank test
 - 4) Monthly Groundwater
 - One time soils
 - 5) Daily Inventory
 - Annual tank testing
 - Cont pipe leak det
 - Vadose/groundwater mon.
 - 6) Daily Inventory
 - Annual tank testing
 - Cont pipe leak det
 - 7) Weekly tank Gauge
 - Annual tank testing
 - 8) Annual Tank Testing
 - Daily Inventory
 - 9) Other _____

- 7. Precs Tank Test Date: 2643
- 8. Inventory Rec. 2644
- 9. Soil Testing 2646
- 10. Ground Water. 2647

- New Tanks
- 11. Monitor Plan 2632
 - 12. Access. Secure 2634
 - 13. Plans Submit 2711
 - Date: _____
 - 14. As Built 2635
 - Date: _____

Comments:
 There are several UST in the (2) building under the concrete floor. The present owner because of the property has never used the tanks and is not aware of the exact location (near oil tanks). The owner of the property is General Motors Co. who owns the adjacent property -

I will speak with General Motors Co. re the proper closure of the tanks.

The tanks have not been used for at least 22 years.

Contact: HANK CLOOTS
 Title: GENERAL MANAGER
 Signature: Hank Cloots

Inspector: Brian P. De
 Signature: _____

II, III



Division of Chemical Manufacturing Co., Inc. of LA
1308 67th STREET OAKLAND, CA 94608
PHONE: (415) 652-8847
FAX: (415) 652-1565

March 23, 1990

State Board of Equalization
Department of Business Taxes
Excise Tax Division
P. O. Box 647
Sacramento, CA 95803-6047

Gentlemen:

We are submitting the enclosed form as required with the deletions shown.

The referenced tanks are incorrectly identified, and by copy of this letter to the Water Board, we are formally requesting their deletion from all records.

When inspection was first made, in a spirit of cooperation, we pointed out the existence of these tanks, and somehow they were listed and carried forward.

Both tanks have not been in use for over 25 years, nor do we ever intend to use them again. Neither tank contains any petroleum products. One tank is not technically even an underground tank - it sits in a large open pit, and would be better classified as a below grade tank.

Enclosed is a copy of our letter of October 6, 1987, when we previously requested deletion.

In effect, the tanks have been permanently abandoned, and should be de-listed. If there is anything we should do to confirm this permanent abandonment, we should be informed of it so we can set the matter to rest completely.

Sincerely,

A handwritten signature in cursive script that reads "Henry Cloots".

Henry Cloots
General Manager

Encl

HC/js



Division of Challenge Manufacturing Co. Inc of LA
1308 67th STREET · OAKLAND, CA 94608
PHONE: (415) 652-8847
TELEX #17-1236

October 6, 1987

Division of Environmental Health
Underground Storage Tanks Unit
470-27th Street, Room 324
Oakland, CA 94612

Gentlemen:

Enclosed are the "applications" sent in regards to our underground tanks, indicating that they were abandoned years ago.

When we identified their existence to your inspectors, we indicated at that time that they were not in use for years. We did not respond earlier because we felt the fact that they were abandoned would prevent any registration requirements.

I trust this will satisfy your requirements and they will be deleted from your files.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Henry R. Cloots', written in dark ink.

Henry R. Cloots
General Manager

HC/js
encl.