ALAMEDA C[redacted]NTY HAZARDOUS MATERIALS DI[redacted]SION
DEPOSIT / REFUND ACCOUNT SHEET printed07/22/.

SITE INFORMATION

Bay Area Warehouse
4001 Hollis St
Emeryville 94608
Site Contact:
Site Phone :

StID: 1851 Site#: 6090
PROJECT#: 6090A
PROJECT TYPE:*** R ***
INSP: Susan Hugo
ACCT. SHEET PG #: ____

PROPERTY OWNER INFORMATION

Owner Contact:
Owner Phone :

PAYOR INFORMATION

Environmental Constructio
775 Montague Expressway
Milpitas CA 95035 # 304
Payor Contact:
Payor Phone : 408/997-1505

Date	Action Taken	Insp Init	Hours Spent/ Depstd	Hour Balnce	Money Spent/ Deposited	Money Balance
	Rcpt# 612090 Balance from Prev.Page	.....	.....	____	.....	264.50
9/26/91	admin	____	1.0	____	67-	197.50
6/23/92	review report (WID) ONFOLDER	SH	1.5	x 71	106.50	91-
6/24/92	" " (WID)	SH	1.5	x 71	106.50	<15.50>
____	8/10/97	AMIR	____	____	____	____
____	____	____	____	____	____	____
____	____	____	____	____	____	____
____	____	____	____	____	____	____
____	____	____	____	____	____	____
____	____	____	____	____	____	____
____	____	____	____	____	____	____

UPON COMPLETION OF PROJECT

PROJ COMPLETED BY : [redacted] & AMIR ATTACH: __ State Forms A,B & C __ Billing Adjustment*

DATE OF COMPLETION : [redacted] 8/10/97 DATE SENT TO BILLING: [redacted] 8/10

TOTAL COST OF PROJECT: 447.50 REFUND AMOUNT: 8/10/97[redacted] Rev. 7/96

* Billing adjustment forms needed when site is in our UST program.

REPORT: WrkShtC (Continued balance

LEVINE•FRICKE
ENGINEERS, HYDROGEOLOGISTS, & APPLIED SCIENTISTS

December 21, 1992 LF-1649.06

Ms. Susan Hugo
Senior Hazardous Materials Specialist
Division of Hazardous Materials
Department of Environmental Health
Alameda County Health Care Services Agency
80 Swan Way, Room 350
Oakland, California 94621

Subject: Underground Storage Tank Removal at Bay Area Warehouse, 4001 Hollis Street, Emeryville, California

Dear Ms. Hugo:

This letter is written to confirm our telephone conversation on December 17, 1992, regarding the removal of the gasoline underground storage tank (UST) formerly located at the Bay Area Warehouse, 4001 Hollis Street in Emeryville, California ("the Site"). Your letter to Mr. Charles Wellnitz of Bay Area Warehouse Company (BAW), dated October 13, 1992, requested that BAW, the owner and operator of the UST, conduct a ground-water investigation at the Site to assess the possible effect of fuel hydrocarbons on ground water in the vicinity of the former UST location.

As you are aware, Levine•Fricke has been conducting an environmental investigation in the vicinity of the Site on behalf of Catellus Development Corporation, the property owner.

Levine•Fricke was on site to oversee tank removal activities conducted by BAW and has reviewed the December 1991 "Report of Findings - Underground Storage Tank Removal," which was prepared by consultants working on behalf of BAW and submitted to the Alameda Health Care Services Agency (ACHA). Results presented in that report indicated that benzene was not detected in any soil samples collected by BAW from the tank excavation, and that total petroleum hydrocarbon as gasoline (TPHg) concentrations were 3 parts per million (ppm) or less. Results for the grab ground-water sample collected from the tank excavation by BAW indicated the presence of benzene and TPHg at concentrations of 0.24 ppm and 8.8 ppm, respectively.

1900 Powell Street, 12th Floor
Emeryville, California 94608
(510) 652-4500
Fax (510) 652-2246

Other offices in Irvine, CA; Sacramento/Roseville, CA; Tallahassee, FL; Honolulu, HI

Levine·Fricke personnel, who were on site during BAW's tank removal activities, observed a sheen on ground water encountered in the excavation. It is possible that petroleum hydrocarbons detected in the grab ground-water sample may have been a result of tank removal activities.

Therefore, as we discussed, one monitoring well, installed immediately downgradient from the excavation (within 10 feet) should be sufficient to assess the possible effect of fuel hydrocarbons on ground-water quality in the vicinity of the tank because:

- the ground-water gradient is known from other wells in the vicinity of the prior tank
- only low concentrations of gasoline were detected in soil samples collected from the tank excavation
- it is possible that fuel hydrocarbons detected in the grab ground-water sample collected by BAW may have resulted from tank removal activities.

In accordance with your October 13, 1992 letter, it is our understanding that the monitoring well will be monitored by BAW on a quarterly basis for one year. If chemical analysis results for ground-water samples collected from the well do not indicate significant concentrations of petroleum hydrocarbons, it is our understanding that the ACHA may not require further investigation in the vicinity of the tank excavation. If, however, significant concentrations of petroleum hydrocarbons are detected in the ground-water samples, it is our understanding that BAW may be required to install additional wells to assess the extent of the affected ground water.

As we discussed, before the work is conducted, BAW will be required to submit for your review and approval a work plan for installing one monitoring well and conducting quarterly monitoring. It is also understood that a "second notice" from the ACHA to Mr. Wellnitz will be temporarily delayed pending prompt receipt of the work plan.

Please do not hesitate to call me if you have any questions or comments regarding this letter.

Sincerely,

Jenifer Beatty

Jenifer J. Beatty
Project Hydrogeologist

cc: Charles Wellnitz, Bay Area Warehouse Company
Ric Notini, Catellus
Don Marini, Catellus
Pat Cashman, Catellus
Kimberly Brandt, Catellus

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
80 Swan Way, Rm 200
Oakland, CA 94621
(510) 271-4530

October 13, 1992
STID# 1851

Mr. Charles Wellnitz
8707 San Leandro Street
Oakland, California 94601

RE: Underground Storage Tank Removal at Bay Area Warehouse
4001 Hollis Street, Emeryville CA 94608

Dear Mr. Wellnitz:

The Alameda County Department of Environmental Health, Hazardous Materials Division has reviewed the files concerning the removal of one underground storage tank on November 20, 1991 at the referenced site. We are in receipt of a "Report of Findings - Underground Storage Tank Removal" submitted by the Environmental Construction Company for Bay Area Warehouse.

Soil samples collected during the tank removal showed low levels of Total Petroleum Hydrocarbon as gasoline (3.0 ppm). However, groundwater samples collected from the excavation pit exhibited high levels of contaminants (8,800 ppb Total Petroleum Hydrocarbon as gasoline, 240 ppb benzene, 360 ppb toluene, 170 ppb ethyl benzene, 750 ppb xylene). In addition, high levels of total lead (146 ppm) was detected in the soil samples. Because of the degree of contamination found at the site which exceeded regulatory threshold levels, further environmental assessment is required. Enclosed is a copy of "Underground Storage Tank Unauthorized Release (Leak) / Contamination Site Report" which must be completed and returned to this office within five working days.

This office will be the lead agency overseeing the environmental investigation and cleanup activities at the site. The RWQCB has delegated this authority to our office. However, you must keep the Water Board apprised of all actions taken to characterize and remediate contamination at the site, because the Board retains the ultimate responsibility for ensuring protection of the waters of the state.

A preliminary assessment should be conducted to determine the extent of soil and/or groundwater contamination that has resulted from the former leaking tank. The information gathered by this investigation will be used to assess the need for additional actions at the site. <u>The preliminary assessment should be designed to provide all of the information in the format shown in the attachment at the end of this letter</u>, which is based on the RWQCB's guidelines. You should be prepared to install at a minimum, three

Should you have any questions regarding this letter, please contact me at (510) 271-4530.

Sincerely,

Susan L. Hugo

Susan L. Hugo
Senior Hazardous Materials Specialist

Enclosures

cc: Rafat A. Shahid, Asst. Agency Director, Environmental Health
Rich Hiett, San Francisco Bay RWQCB
Gil Jensen, Alameda County District Attorney's Office
Edgar B. Howell, Chief, Hazardous Materials Division / file
Don Marini, Catellus Development Corp.- 201 Mission Street
Suite 250, San Francisco, California 94105
Jennifer Beatty, Levine Fricke 1900 Powell Street
Emeryville, California 94608

(RP1) Property Owner: Catellus
201 [illegible]ission St., Suite 250
S.F. CA 94105
attn: Don Marini

(RP2) Business Owner: Mr. Charles Wellnitz
8707 San Leandro St.
Oakland, CA 94601

DATE: 9/17/92

TO : **Local Oversight Program**

FROM: SUSAN

SUBJ: **Transfer of Elligible Oversight Case**

Site name: BAY AREA WAREHOUSE

Address: 4001 Hollis Street City Emeryville Zip 94608

Closure plan attached? (Y) N DepRef remaining $_____

DepRef Project #_____ STID #(if any) 1851

Number of Tanks: ✓ removed? (Y) N Date of removal 11-20-91

Leak Report filed? Y (N) Date of Discovery_____

Samples received? Y N Contamination:_____

Petroleum Y N Types: Avgas Jet leaded unleaded Diesel
fuel oil waste oil kerosene solvents

Monitoring wells on site_____ Monitoring schedule? Y (N)

LUFT category 1 2 3 * H S C A R W G O

Briefly describe the following:

Preliminary Assessment_____

Remedial Action_____

Post Remedial Action Monitoring_____

Enforcement Action_____

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 # ____ Site Name Bay Area Warehouse Today's Date 1/20/91 ✓

Site Address 4001 Hollis 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

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

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'LS

___	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(g)
___	17. Certification	25534(f)
___	18. Exemption Request? (Y/N)	25536(b)
___	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 gndwater
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 tsting
8) Annual Tank Testing
Daily Inventory
9) Other ____

___	7. Precis 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 Date: ____	2711
___	14. As Built Date: ____	2635

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Comments:

1 - 2000 GAL. GASOLINE TANK
- no obvious holes
- Petroleum Hydrocarbon odor present
Sheen present in ground water.
2 - soil samples from bottom of tank
1 - ~~soil~~ ground water sample ~~taken~~ collected.
02% - 2.5% LEL - 5
Manifest # 9150739 3

1 - piping trench soil sample taken

Stockpiled soil must be characterized (4 samples taken, composite into one to the state certified lab.)
Stockpiled soil must be covered with plastic sheeting.

II, III

Contact: Fred Chavez

Title: VP

Signature: ____

Inspector: Susan L. Hugo

Signature: Susan L. Hugo

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
80 SWAN WAY, ROOM 200
OAKLAND, CA 94621
PHONE NO. 415/271-4320

Project Specialist (print) SUSAN L. HUGO

ACCEPTED

DEPARTMENT OF ENVIRONMENTAL HEALTH
470 - 27th Street, Third Floor
Oakland, CA 94612
Telephone: (415) 874-7237

These plans have been reviewed and found to be acceptable and essentially meet the requirements of State and local health laws. Changes to your 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.

One copy of these 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 Inspection Department to determine if such changes meet the requirements of State and local laws.

Notify this Department at least 48 hours prior to the following required inspections:

✓ Removal of Tank and Piping
✓ Sampling
✓ Final Inspection

Issuance of a permit to operate is dependent on compliance with accepted plans and all applicable laws and regulations.

THERE IS A FINANCIAL PENALTY FOR NOT OBTAINING THESE INSPECTIONS.

Please note change made on page 4 & 5.
Susan L. Hugo
12/30/91

UNDERGROUND TANK CLOSURE PLAN

*** * * Complete according to attached instructions * * ***

1. **Business Name** BAY AREA WAREHOUSE

   Business Owner CHARLES P. WELLNITZ

2. **Site Address** 4001 HOLLIS ST.

   City EMERYVILLE CA **Zip** 94608 **Phone** (415) 568-1300

3. **Mailing Address** 8707 SAN LEANDRO ST.

   City OAKLAND CA **Zip** 94608 **Phone** (415) 568-1300

4. **Land Owner** CATELLAS DEVELPMENT CORP.

   Address 201 MISSION ST. **City, State** S. F. CA. **Zip** 94105

5. **Generator name under which tank will be manifested** BAY AREA WAREHOUSE

   EPA I.D. No. under which tank will be manifested CAC000626928

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6. Contractor THE ENVIRONMENTAL CONSTRUCTION COMPANY

Address 775 MONTAGUE EXPRESSWAY

City MILPITAS CA 95035 Phone (408) 957-7700

License Type C61/D40 ID# #578789

7. Consultant N/A

Address

City Phone

8. Contact Person for Investigation

Name MR. ROBERT WHITMAN Title PRESIDENT/ OWNER

Phone (408) 957-7700

9. Number of tanks being closed under this plan 1

Length of piping being removed under this plan 40 FEET

Total number of tanks at facility 1

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

** Underground tanks are hazardous waste and must be handled ** as hazardous waste

a) Product/Residual Sludge/Rinsate Transporter

Name H & H SHIP SERVICE EPA I.D. No. CAD0004771168

Hauler License No. License Exp. Date

Address 220 CHINA BASIN

City SAN FRANCISCO State CA Zip 94107

b) Product/Residual Sludge/Rinsate Disposal Site

Name H & H SHIP SERVICE EPA I.D. No. CAD0004771168

Address 220 CHINA BASIN

City SAN FRANCISCO State CA Zip 94107

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c) Tank and Piping Transporter

Name H & H SHIP SERVICE EPA I.D. No. CAD0004771168

Hauler License No. _____ License Exp. Date _____

Address 220 CHINA BASIN

City SAN FRANCISCO State CA Zip 94107

d) Tank and Piping Disposal Site

Name H & H SHIP SERVICE EPA I.D. No. CAD0004771168

Address 220 CHINA BASIN

City SAN FRANCISCO State CA Zip 94107

11. Experienced Sample Collector

Name MR. ROBERT WHITMAN - (TECC)

Company THE ENVIRONMENTAL CONSTRUCTION COMPANY

Address 775 MONTAGUE EXPRESSWAY

City MILPITAS State CA Zip 95035 Phone (408)957-7700

12. Laboratory

Name CHROMALAB

Address 2239 OMEGA RD #1

City SAN RAMON State CA Zip 94583

State Certification No. 238

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

If yes, describe. _____

14. Describe methods to be used for rendering tank inert

1.5 LBS. DRY ICE PER 100 GALLON CAPACITY

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 plugged.

The Bay Area Air Quality Management District (771-6000), along with local Fire and Building Departments, must also be contacted for tank removal permits. Fire departments typically require the use of explosion proof combustible gas meters to verify tank inertness. **It is the contractor's responsibility to bring a working combustible gas meter on site to verify tank inertness.**

15. Tank History and Sampling Information

Tank		Material to be sampled (tank contents, soil, groundwater, etc.)	Location and Depth of Samples
Capacity	Use History (see instructions)		
2000 GAL.	GASOLINE	SOIL and/or groundwater if present	~~BENEATH TANK 11 FEET~~ one sample must be collected at each end of the tank no deeper than 2 ft at the backfill/native soil interface.

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

Excavated/Stockpiled Soil	
Stockpiled Soil Volume (Estimated) 40 CUBIC YARDS	Sampling Plan Stockpiled soil must be characterized depending on method of disposal. ~~ONE SOIL SAMPLE FROM BENEATH EACH END OF THE TANK.~~

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

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.

Contaminant Sought	EPA, DHS, or Other Sample Preparation Method Number	EPA, DHS, or Other Analysis Method Number	Method Detection Limit
TPH-G	GC-FID 5030		1.0 ppm (soil)
TPHd/BTEX		~~5030/8015~~	1.0 ppm
& TOTAL LEAD		7420	.05 ppm
BTXE	8020 or 8240		5 ppb (soil)

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

18. Submit Worker's Compensation Certificate copy

Name of Insurer SUPERIOR NATIONAL INSURANCE CO.

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 report shall be made on an Underground Storage Tank Unauthorized Leak/Contamination Site Report form. (see Instructions)

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

I declare that to the best of my knowledge and belief 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 an approval from the Department of Environmental Health 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.

Signature of Contractor

Name (please type) MR. ROBERT WHITMAN

Signature _____

Date _____

Signature of Site Owner or Operator

Name (please type) CHARLES P. WELLNETZ

Signature _____

Date 9/25/91

rev 12/90

INSTRUCTIONS

General Instructions

* Three (3) copies of this plan plus attachments and deposit must be submitted to this Department.

* Any cutting into tanks requires local fire department approval.

* One complete copy of your approved plan must be at the construction site at all times; a copy of your approved plan must also be sent to the landowner.

Item Specific Instructions

2. SITE ADDRESS
Address at which closure is taking place.

5. EPA I.D. NO. under which the tanks will be manifested
EPA I.D. numbers may be obtained from the State Department of Health Services, 916/324-1781.

6. CONTRACTOR
Prime contractor for the project.

10. STATE REGISTERED HAZARDOUS WASTE TRANSPORTERS/FACILITIES

a) All residual liquids and sludges are to be removed from tanks before tanks are inerted.

c) Tanks must be hauled as hazardous waste.

d) This is the place where tanks will be taken for cleaning.

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

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

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

17. SITE HEALTH AND SAFETY PLAN

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

a) The name and responsibilities of the site health and safety officer;

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

c) An outline of briefings to be held before work each day to appraise employees of site health and safety hazards;

d) Frequency and types of air and personnel monitoring to be used - along with the environmental sampling techniques and instrumentation. Include instrumentation maintenance and calibration methods and frequencies;

e) Specific personal protective equipment and procedures to be used by workers to protect themselves from the identified hazards. Also state the contaminant concentrations in air - or other conditions - which will trigger changes in work or work habits to ensure workers are not exposed to high levels of hazardous chemicals or to other unsafe conditions;

f) Confined space entry procedures (if applicable);

g) Decontamination procedures;

h) Measures to be taken to secure the site, excavation and stockpiled soil during and after work hours (e.g. barricades, caution tape, fencing, trench plates, security guards, etc.);

i) Spill containment and emergency/contingency plan. Be sure to include emergency phone numbers, the location of the phone nearest the site, and directions to the hospital nearest the site;

j) Documentation that all site workers have received the appropriate OSHA approved trainings and participate in appropriate medical surveillance per 29 CFR 1910.120; and

k) Page for employees to sign indicating they have read and will comply with the site health and safety plan.

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

NOTE: These requirements are excerpts from 29 CFR Part 1910.120, Hazardous Waste Operations and Emergency Response; Final Rule, March 6, 1989. Safety plans of certain underground tank sites may need to meet the complete requirements of this Rule.

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

a) Scale;

b) North Arrow;

c) Property Lines;

d) Location of all Structures;

e) Location of all relevant existing equipment including tanks and piping to be removed and dispensers;

f) Streets;

g) Underground conduits, sewers, water lines, utilities;

h) Existing wells (drinking, monitoring, etc.);

i) Depth to ground water; and

j) All existing tanks and piping in addition to the ones being pulled.

20. DEPOSIT
A deposit, payable to Alameda County for the amount indicated on the Alameda County Underground Storage Tank Fee Schedule, must accompany the plans.

21. Blank Unauthorized Leak/Contamination Site Report forms may be obtained in limited quantities from our office and from the San Francisco Bay Regional Water Quality Control Board (415/464-1255). Larger quantities may be obtained directly from the State Water Resources Control Board at (916) 739-2421.

22. TANK CLOSURE REPORT
The tank closure report should contain the following information:

a) General description of the closure activities;

b) Description of tank, fittings and piping conditions. Indicate tank size and former contents; note any corrosion, pitting, holes, etc.;

c) Description of the excavation itself. Include the tank and excavation depth, a log of the stratigraphic units encountered within the excavation, a description of root holes or other potential contaminant pathways, the depth to any observed ground water, descriptions and locations of stained or odor-bearing soil, and descriptions of any observed free product or sheen;

d) Description of sampling methods;

e) Description of any remedial measures conducted at the time of tank removal;

f) To-scale figures showing the excavation size and depth, nearby buildings, sample locations and depths, and tank and piping locations. Include a copy of the plot plan prepared for the Tank Closure Plan under item 19;

g) Chain of custody records;

h) Copies of signed laboratory reports;

i) Copies of "TSDF to Generator" Manifests for all hazardous wastes hauled offsite (sludge, rinsate, tanks and piping, contaminated soil, etc.); and

j) Tabulation of the volume and final destination of all non-manifested contaminated soil hauled offsite.

TABLE #2

RECOMMENDED MINIMUM VERIFICATION ANALYSES FOR UNDERGROUND TANK LEAKS

HYDROCARBON LEAK	SOIL ANALYSIS	WATER ANALYSIS
Unknown Fuel	TPH G GCFID(5030) TPH D GCFID(3550) BTX&E 8020 or 8240 TPH AND BTX&E 8260	TPH G GCFID(5030) TPH D GCFID(3510) BTX&E 602, 624 or 8260
Leaded Gas	TPH G GCFID(5030) BTX&E 8020 OR 8240 TPH AND BTX&E 8260 TOTAL LEAD AA ------Optional------- TEL DHS-LUFT EDB DHS-AB1803	TPH G GCFID(5030) BTX&E 602 or 624 TOTAL LEAD AA TEL DHS-LUFT EDB DHS-AB1803
Unleaded Gas	TPH G GCFID(5030) BTX&E 8020 or 8240 TPH AND BTX&E 8260	TPH G GCFID(5030) BTX&E 602, 624 or 8260
Diesel, Jet Fuel and Kerosene	TPH D GCFID(3550) BTX&E 8020 or 8240 TPH AND BTX&E 8260	TPH D GCFID(3510) BTX&E 602, 624 or 8260
Fuel/Heating Oil	TPH D GCFID(3550) BTX&E 8020 or 8240 TPH AND BTX&E 8260	TPH D GCFID(3510) BTX&E 602, 624 or 8260
Chlorinated Solvents	CL HC 8010 or 8240 BTX&E 8020 or 8240 CL HC AND BTX&E 8260	CL HC 601 or 624 BTX&E 602 or 624 CL HC AND BTX&E 8260
Non-chlorinated Solvents	TPH D GCFID(3550) BTX&E 8020 or 8240 TPH AND BTX&E 8260	TPH D GCFID(3510) BTX&E 602 or 624 TPH and BTX&E 8260
Waste and Used Oil or Unknown (All analyses must be completed and submitted)	TPH G GCFID(5030) TPH D GCFID(3550) TPH AND BTX&E 8260 O & G 5520 D & F BTX&E 8020 or 8240 CL HC 8010 or 8240	TPH G GCFID(5030) TPH D GCFID(3510 O & G 5520 C & F BTX&E 602, 624 or 8260 CL HC 601 or 624
	ICAP or AA TO DETECT METALS: Cd, Cr, Pb, Zn, Ni METHOD 8270 FOR SOIL OR WATER TO DETECT: PCB* PCP* PNA CREOSOTE	 PCB PCP PNA CREOSOTE

* If found, analyze for dibenzofurans (PCBs) or dioxins (PCP)

Reference: Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites, 10 August 1990

EXPLANATION FOR TABLE #2: MINIMUM VERIFICATION ANALYSIS

1. OTHER METHODOLOGIES are continually being developed and as methods are accepted by EPA or DHS, they also can be used.

2. For DRINKING WATER SOURCES, EPA recommends that the 500 series for volatile organics be used in preference to the 600 series because the detection limits are lower and the QA/QC is better.

3. APPROPRIATE STANDARDS for the materials stored in the tank are to be used for all analyses on Table #2. For instance, seasonally, there may be five different jet fuel mixtures to be considered.

4. To AVOID FALSE POSITIVE detection of benzene, benzene-free solvents are to be used.

5. TOTAL PETROLEUM HYDROCARBONS (TPH) as gasoline (G) and diesel (D) ranges (volatile and extractible, respectively) are to be analyzed and characterized by GCFID with a fused capillary column and prepared by EPA method 5030 (purge and trap) for volatile hydrocarbons, or extracted by sonication using 3550 methodology for extractable hydrocarbons. Fused capillary columns are preferred to packed columns; a packed column may be used as a "first cut" with "dirty" samples or once the hydrocarbons have been characterized and proper QA/QC is followed.

6. TETRAETHYL LEAD (TEL) analysis may be required if total lead is detected unless the determination is made that the total lead concentration is geogenic (naturally occurring).

7. CHLORINATED HYDROCARBONS (CL HC) AND BENZENE, TOLUENE, XYLENE AND ETHYLBENZENE (BTX&E) are analyzed in soil by EPA methods 8010 and 8020 respectively, (or 8240) and in water, 601 and 602, respectively (or 624).

8. OIL AND GREASE (O & G) may be used when heavy, straight chain hydrocarbons may be present. Infrared analysis by method 418.1 may also be acceptable for O & G if proper standards are used. **Standard Methods" 17th Edition, 1989, has changed the 503 series to 5520.**

9. **PRACTICAL QUANTITATION REPORTING LIMITS are influenced by matrix problems and laboratory QA/QC procedures. Following are the Practical Quantitation Reporting Limits:**

	SOIL PPM	WATER PPB
TPH G	1.0	50.0
TPH D	1.0	50.0
BTX&E	0.005	0.5
O & G	50.0	5,000.0

Based upon a Regional Board survey of Department of Health Services Certified Laboratories, the Practical Quantitation Reporting Limits are attainable by a majority of laboratories with the exception of diesel fuel in soils. The Diesel Practical Quantitation Reporting Limits, shown by the survey, are:

ROUTINE	MODIFIED PROTOCOL
≤ 10 ppm (42%)	≤ 10 ppm (10%)
≤ 5 ppm (19%)	≤ 5 ppm (21%)
≤ 1 ppm (35%)	≤ 1 ppm (60%)

When the Practical Quantitation Reporting Limits are not achievable, an explanation of the problem is to be submitted on the laboratory data sheets.

10. LABORATORY DATA SHEETS are to be signed and submitted and include the laboratory's assessment of the condition of the samples on receipt including temperature, suitable container type, air bubbles present/absent in VOA bottles, proper preservation, etc. The sheets are to include the dates sampled, submitted, prepared for analysis, and analyzed.

11. IF PEAKS ARE FOUND, when running samples, that do not conform to the standard, laboratories are to report the peaks, including any unknown complex mixtures that elute at times varying from the standards. Recognizing that these mixtures may be contrary to the standard, they may not be readily identified; however, they are to be reported. At the discretion of the LIA or Regional Board the following information is to be contained in the laboratory report:

    The relative retention time for the unknown peak(s) relative to the reference peak in the standard, copies of the chromatogram(s), the type of column used, initial temperature, temperature program is C/minute, and the final temperature.

12. REPORTING LIMITS FOR TPH are: gasoline standard ≤ 20 carbon atoms, diesel and jet fuel (kerosene) standard ≤ 50 carbon atoms. It is not necessary to continue the chromatography beyond the limit, standard, or EPA/DHS method protocol (whichever time is greater).

EPILOGUE

ADDITIVES: Major oil companies are being encouraged or required by the federal government to reformulate gasoline as cleaner burning fuels to reduce air emissions. MTBE (Methyl-tertiary butyl ether), ETHANOL (ethyl alcohol), and other chemicals may be added to reformulate gasolines to increase the oxygen content in the fuel and thereby decrease undesirable emissions (about four percent with MTBE). MTBE and ethanol are, for practical purposes, soluble in water. The removal

from the water column will be difficult. Other compounds are being added by the oil companies for various purposes. The refinements for detection and analysis for all of these additives are still being worked out. If you have any questions about the methodology, please call your Regional Board representative.

ON SITE SAFETY EQUIPMENT:

2- ROLLS VISQUEEN

2- RESPIRATORS (WITH ORGANIC VAPOR CARTRIDGE)

2- FIRE EXTINGUISHERS

2- 55 GALLON DRUMS

2- BAGS OF ABSORBANTS

1- 5 GALLON BUCKET

CAUTION SIGNS

NO SMOKING SIGNS

CAUTION TAPE

BARRACADES

FENCE

HARD HATS

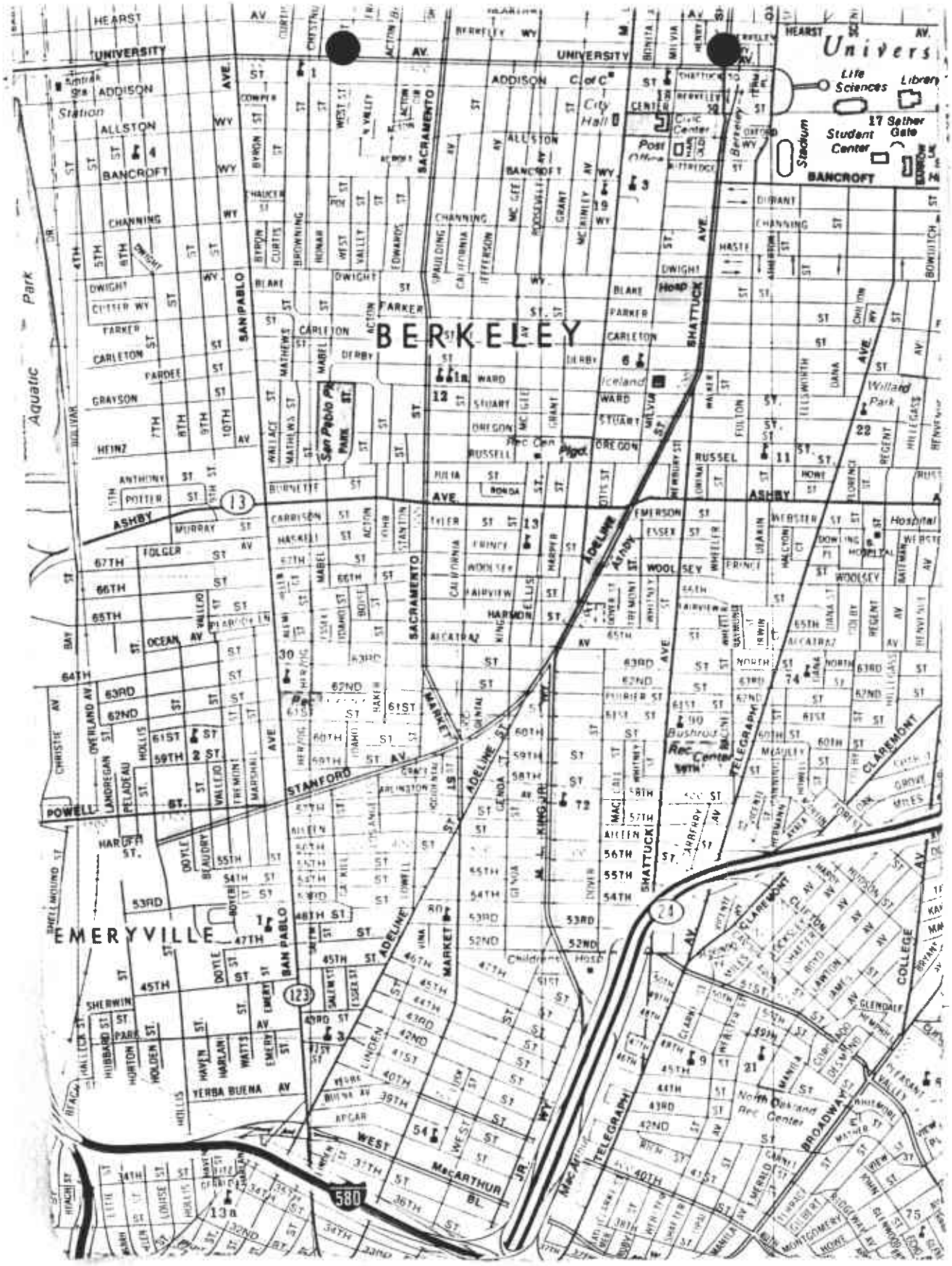
JOB PROJECT MANAGER: RON LEGUE

SITE SAFETY OFFICER: ROBERT WHITMAN

LEVEL C PROTECTION IS AVAILABLE ON-SITE

SITE SECURITY WILL BE A FENCE

PIPING WILL BE REMOVED & DISPOSED OF WITH UST'S



Alto Bates Herrick Hospital

2001 Dwight Way, Berkeley, CA

ACORD. CERTIFICATE OF INSURANCE

ISSUE DATE (MM/DD/YY)
08-28-91

PRODUCER

ANDREINI AND COMPANY
220 West 20th Avenue
San Mateo, CA 94403
(415) 573-1111

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.

INSURED
ROBERT WHITMAN
DBA: THE ENVIRONMENTAL
CONSTRUCTION COMPANY
775 Montague Expressway
Milpitas, CA 95035

COMPANIES AFFORDING COVERAGE

COMPANY LETTER A — SUPERIOR NATIONAL INSURANCE CO.
COMPANY LETTER B
COMPANY LETTER C
COMPANY LETTER D
COMPANY LETTER E

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	
	GENERAL LIABILITY				GENERAL AGGREGATE	$
	COMMERCIAL GENERAL LIABILITY				PRODUCTS-COMP/OP AGG.	$
	CLAIMS MADE OCCUR				PERSONAL & ADV. INJURY	$
	OWNER'S & CONTRACTOR'S PROT.				EACH OCCURRENCE	$
					FIRE DAMAGE (Any one fire)	$
					MED. EXPENSE (Any one person)	$
	AUTOMOBILE LIABILITY				COMBINED SINGLE LIMIT	$
	ANY AUTO					
	ALL OWNED AUTOS				BODILY INJURY (Per person)	$
	SCHEDULED AUTOS					
	HIRED AUTOS				BODILY INJURY (Per accident)	$
	NON-OWNED AUTOS					
	GARAGE LIABILITY				PROPERTY DAMAGE	$
	EXCESS LIABILITY				EACH OCCURRENCE	$
	UMBRELLA FORM				AGGREGATE	$
	OTHER THAN UMBRELLA FORM					
	WORKER'S COMPENSATION				STATUTORY LIMITS	
A	AND	WCN 12706-C	11-14-90	11-14-91	EACH ACCIDENT	$ 1,000,000
	EMPLOYERS' LIABILITY				DISEASE—POLICY LIMIT	$ 1,000,000
					DISEASE—EACH EMPLOYEE	$ 1,000,000
	OTHER					

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS

*Except With Respect To Non-Payment, Which Is 10 Days

CERTIFICATE HOLDER

JAPAN AIR LINES
C/O IASCO Attn: John Shimmer
100 Iasco Road
Napa, CA 94558

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 Denise M. Bauman

Andreini And Company

State of California
Department of Consumer Affairs
CONTRACTORS STATE LICENSE BOARD

License Number
513187

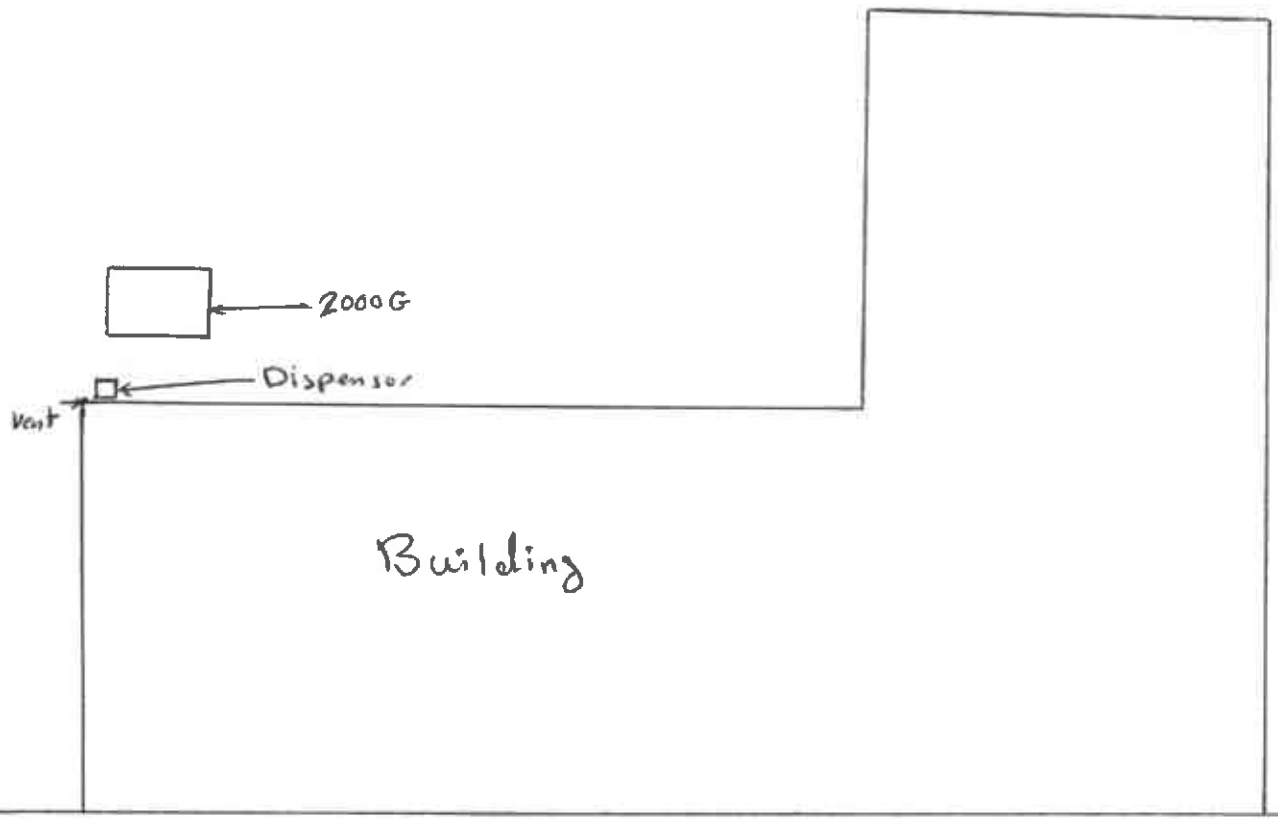
Entity
INDIV

Business/Organization
ENVIRONMENTAL CONSTRUCTION COMPANY THE

Classification(s)
C61/D40

Expiration Date
10/31/91

Hollis Street



4001 Hollis St.
Emeryville,

Park Ave