[redacted]

LEVINE·FRICKE

Underground Storage Tank Removal Report
Peralta Street and San Pablo Avenue
Emeryville, California

November 19, 1993
1649.14

Prepared for
Catellus Development Corporation
201 Mission Street, 30th Floor
San Francisco, California 94105

LEVINE·FRICKE

LEVINE•FRICKE
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

November 19, 1993

LF 1649.14

Ms. Susan Hugo
Alameda County Health Care Services Agency
80 Swan Way, Suite 200
Oakland, California 94621

Subject: Underground Storage Tank Removal Report, Peralta Street and San Pablo Avenue, Emeryville, California

Dear Ms. Hugo:

The enclosed report details tank removal and disposal activities, soil sampling procedures, laboratory analysis, and analytical results associated with removal of an underground storage tank from beneath the sidewalk along Peralta Street in Emeryville, California. This work was conducted by Levine•Fricke, Inc., on behalf of Catellus Development Corporation, in accordance with the underground storage tank closure plan submitted to the Alameda Health Care Services Agency, which was approved on August 23, 1993.

Please call me if you have any questions or comments regarding this report.

Sincerely,

Cynthia Barclay for

Jenifer Beatty
Project Hydrogeologist

cc: Richard Hiett, RWQCB
Kimberly Brandt, Catellus
Pat Cashman, Catellus

1900 Powell Street, 12th Floor
Emeryville, California 94608
(510) 652-4500
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Other offices in Irvine, CA, Sacramento/Roseville, CA; Tallahassee, FL, Honolulu, HI

CONTENTS

LIST OF TABLES

LIST OF FIGURES

CERTIFICATION

All hydrogeologic and geologic information, conclusions, and recommendations have been prepared under the supervision of and reviewed by a Levine·Fricke California Registered Geologist.

Andrew L. Wright
Senior Associate Geologist
California Registered Geologist (4592)

11/19/93
Date

November 19, 1993 LF 1649.14

UNDERGROUND STORAGE TANK REMOVAL REPORT
PERALTA STREET AND SAN PABLO AVENUE
EMERYVILLE, CALIFORNIA

1.0 INTRODUCTION

This report describes activities conducted to remove a fuel underground storage tank (UST) from beneath the sidewalk along Peralta Street adjacent to 3819 San Pablo Avenue ("the Site"; Figure 1) in Emeryville, California. The three-story building at 3819 San Pablo Avenue is used for retail/residential purposes and is operated by the Foxwater Group. This work was conducted by Levine·Fricke, Inc., on behalf of Catellus Development Corporation ("Catellus").

On August 23, 1993, the Alameda Health Care Services Agency (ACHA) approved the underground storage tank closure plan that described proposed UST removal activities.

2.0 BACKGROUND AND PREVIOUS INVESTIGATIONS

Levine·Fricke personnel observed an approximately 8-inch by 8-inch square metal plate with the lettering "L D FRAZEE, HEATING, OAKLAND, CAL" in the sidewalk along Peralta Street on May 7, 1993, indicating that a UST was present below the sidewalk. On June 7, 1993, Levine·Fricke gained access to the UST and collected a sample of the product contained in it. The sample was submitted to Friedman and Bruya, Inc., of Seattle, Washington, for fuel characterization analysis. Results indicated that the fuel product contained in the tank was a heating oil. Laboratory certificates are contained in Appendix A.

On June 23, 1993, approximately 900 gallons of heating oil was pumped from the UST into a vacuum truck by Evergreen Environmental Services, Inc., of Newark, California ("Evergreen"), an oil recycling company. The bottom of the UST was determined to be at approximately 9 feet below ground surface (bgs).

An encroachment permit was obtained from the City of Emeryville and two soil borings (TB-1 and TB-2; Figure 2) were drilled on June 18, 1993, near what were assumed to be the ends of the UST, based on the geophysical survey. One soil

sample was collected from each boring at a depth of 10 feet bgs and submitted for analysis of total petroleum hydrocarbons as diesel (TPHd), TPH as motor oil (TPHmo), TPH as gasoline (TPHg), benzene, toluene, ethylbenzene, and xylenes (BTEX compounds), oil and grease (O&G), and organic lead. None of these compounds were identified above method detection limits for either soil sample, with the exception of O&G, which was detected at 40 parts per million (ppm) in the sample collected from boring TB-1. Laboratory results are contained in Appendix B.

2.0 UST REMOVAL ACTIVITIES

One 1,500-gallon heating oil UST was removed from the Site on September 22, 1993, under permits from the ACHA and the Emeryville Fire Department (EFD). Ms. Susan Hugo of the ACHA and Mr. Gerald Anthony of the EFD were on site to observe UST removal activities. The former UST location and excavation boundary are shown in Figures 2 and 3. Water lines and meters servicing 3817, 3819, and 3823 San Pablo Avenue crossed directly over the UST (Figure 2). To avoid relocation of these utilities, the UST was removed by sliding it out of the excavation.

UST removal and backfilling activities were performed by Trumpp Bros., Inc., a general engineering contractor from San Jose, California. A Levine·Fricke field geologist was on site to observe UST removal activities, and to collect soil samples from the excavation for chemical analysis. The completed excavation was backfilled using a controlled density fill (concrete mixture containing flyash and pea gravel) to just below the water lines, approximately 1 foot below the surrounding ground surface. The remainder of the excavation was backfilled with gravel.

Details of the UST removal are presented below.

2.1 UST Contents Disposal

Prior to UST removal, approximately 60 gallons of residual product and sludge in the bottom of the UST were pumped into a vacuum truck by Evergreen on September 22, 1993, and transported to its recycling facility in Newark, California.

2.2 UST Stabilization, Inspection, and Field Observations

The empty UST was rendered inert by inserting dry ice to remove organic vapors and oxygen. Explosivity meter readings

were taken after the dry ice was placed in the UST. After the combustible gas concentration had been reduced to below 15 percent of the Lower Explosive Limit (LEL), the UST was removed.

Excavation activities were conducted using a backhoe. The top of the UST was approximately 4 feet bgs and the bottom of the UST was approximately 9 feet bgs. Buried piping associated with the UST (less than 5 lineal feet) was observed to lead into the basement of the building located at 3819 San Pablo Avenue. The associated piping was removed and capped off near the building face. Soil lithology beneath the sidewalk in the UST excavation consisted of a black silty clay to approximately 5 feet bgs, and a gray gravelly, silty clay layer from 5 to 6 feet bgs underlain by an olive silty clay to the depth of the excavation (approximately 9.5 feet bgs). Imported UST backfill material was not encountered in the excavation.

The UST was constructed of steel with riveted seams and was approximately 5 feet in diameter and 8 feet long. A 1-inch-diameter hole was observed in the bottom of the UST on the southwestern end, and the sides of the UST were covered with surface rust. Based on visual and olfactory observation, a small quantity of suspected petroleum-affected soil was observed in the floor of the excavation (approximately 9.5 feet bgs) and along the sidewalls at approximately 7 feet bgs. The suspected petroleum-affected soil was excavated and stockpiled adjacent to the excavation on plastic sheeting. The stockpile was then covered with plastic sheeting.

On September 22, 1993, Erickson transported the UST and piping under hazardous waste manifest to its facility in Richmond for disposal. A copy of the manifest is included in Appendix C.

2.3 Soil Sampling Methods

Soil samples were collected by driving clean brass tubes into the sidewalls of the excavation and into soil collected from the bottom of the excavation in a backhoe bucket. The soil samples were labeled and capped with aluminum foil and plastic caps. Samples were stored in a chilled container and transported for analysis to Anametrix, Inc., of San Jose, California, a state-certified laboratory for chemical analysis. Samples were transported under chain-of-custody protocol.

As directed by Ms. Hugo, two soil samples were collected from the bottom of the excavation at approximately 10 feet bgs

beneath the ends of the tank (BN-10 and BS-10.5), and two sidewall samples were collected from the northwest and southeast sidewalls at a depth of approximately 8.5 feet bgs (SN-8.0 and SS-8.5). In addition, Levine·Fricke collected one soil sample from beneath the piping that lead from the UST into the building (sample ID: PIPE). Four soil samples were collected from the stockpile of excavated soil (approximately 20 cubic yards) and submitted to the analytical laboratory, which composited the four samples into one sample.

2.4 Analytical Results for Soil Samples

Soil samples were analyzed for TPHd and TPHmo using EPA Method 3510, O&G using Standard Method 5520EF, and BTEX compounds using EPA Method 8020. Analytical results for soil samples collected from the excavation and stockpiled soil are presented in Table 1. Laboratory data sheets are presented in Appendix B.

Analytical results did not indicate the presence of TPHd, TPHmo, or BTEX compounds above laboratory detection limits. Low concentrations of O&G (ranging from 33 ppm to 120 ppm) were detected in four of the five samples collected from the excavation.

Analytical results for the soil sample collected from the stockpile (PILE) indicated low concentrations of TPHd (17 ppm) and O&G (93 ppm). TPHmo and BTEX compounds were below laboratory detection limits.

3.0 SUMMARY AND CONCLUSIONS

One fuel UST was removed and disposed of by a licensed hazardous waste transportation company under a hazardous waste manifest. One small hole was observed in the bottom of the UST on the southwestern end. Approximately 20 cubic yards of petroleum-affected soil were removed from the UST excavation during removal activities.

With the exception of low concentrations (less than 125 mg/kg) of oil and grease, soil samples collected from the excavation floor and sidewalls indicate that soils have not been affected by petroleum hydrocarbons. The excavation was backfilled using a controlled density fill and gravel.

Based on our observation of excavation activities and the results of soil sampling and analysis, it is our opinion that the work performed complied with applicable UST closure

requirements. On the basis of the soil-quality results, we do not recommend any additional remedial work in this area.

TABLE 1
ANALYTICAL RESULTS FOR SOIL SAMPLES COLLECTED FROM THE UST EXCAVATION
PERALTA STREET AND SAN PABLO AVENUE, OAKLAND, CALIFORNIA
(concentrations reported in milligrams per kilogram [mg/kg])

Sample ID		Date	Depth	TPHd	Oil & Grease	TPHmo	Benzene	Toluene	Ethyl-benzene	Total Xylenes
BN-10.0		22-Sep-93	10.0	<10	120	<10	<0.005	<0.005	<0.005	<0.005
BS-10.5		22-Sep-93	10.5	<10	37	<10	<0.005	<0.005	<0.005	<0.005
SN-8.0		22-Sep-93	8.0	<10	33	<10	<0.005	<0.005	<0.005	<0.005
SS-8.5		22-Sep-93	8.5	<10	<30	<10	<0.005	<0.005	<0.005	<0.005
Pipe	(1)	22-Sep-93	2.5	<10	80	<10	<0.005	<0.005	<0.005	<0.005
Pile*		22-Sep-93	NA	17	93	<10	<0.005	<0.005	<0.005	<0.005

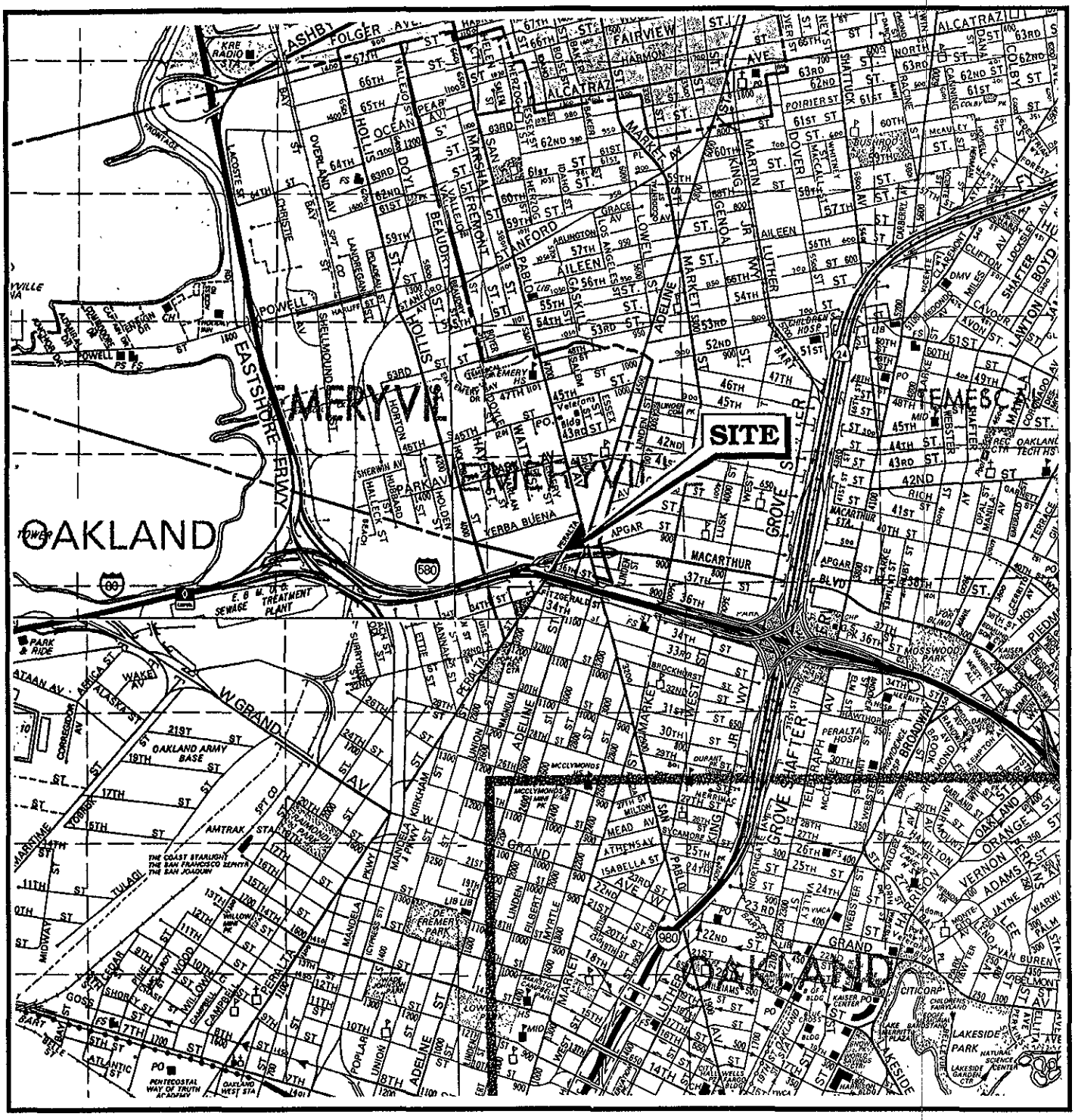
Data entered by MEK/11-Nov-93. Data proofed by MEK/11-Nov-93.

One milligram per kilogram of soil is equivalent to one part per million.
TPHd - Total petroleum hydrocarbons as diesel using EPA Method 3550
TPHmo - Total petroleum hydrocarbons as motor oil using EPA Method 3550
Oil and grease using Standard Method 5520 E,F
Benzene, toluene, ethylbenzene, and total xylenes using EPA Method 8020

* Composite sample collected from stockpiled soil.

(1) This sample also was analyzed for total petroleum hydrocarbons as gasoline (TPHg). TPHg was not detected above the laboratory detection limit of 0.5 mg/kg.

Analyses performed by Anametrix Laboratories, San Jose, California.



MAP SOURCE:
Thomas Bros. Map
Alameda and Contra Costa Counties
1992 EDITION

Figure 1: SITE LOCATION MAP

Project No. 1649.14

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MJS15JUL93RYL

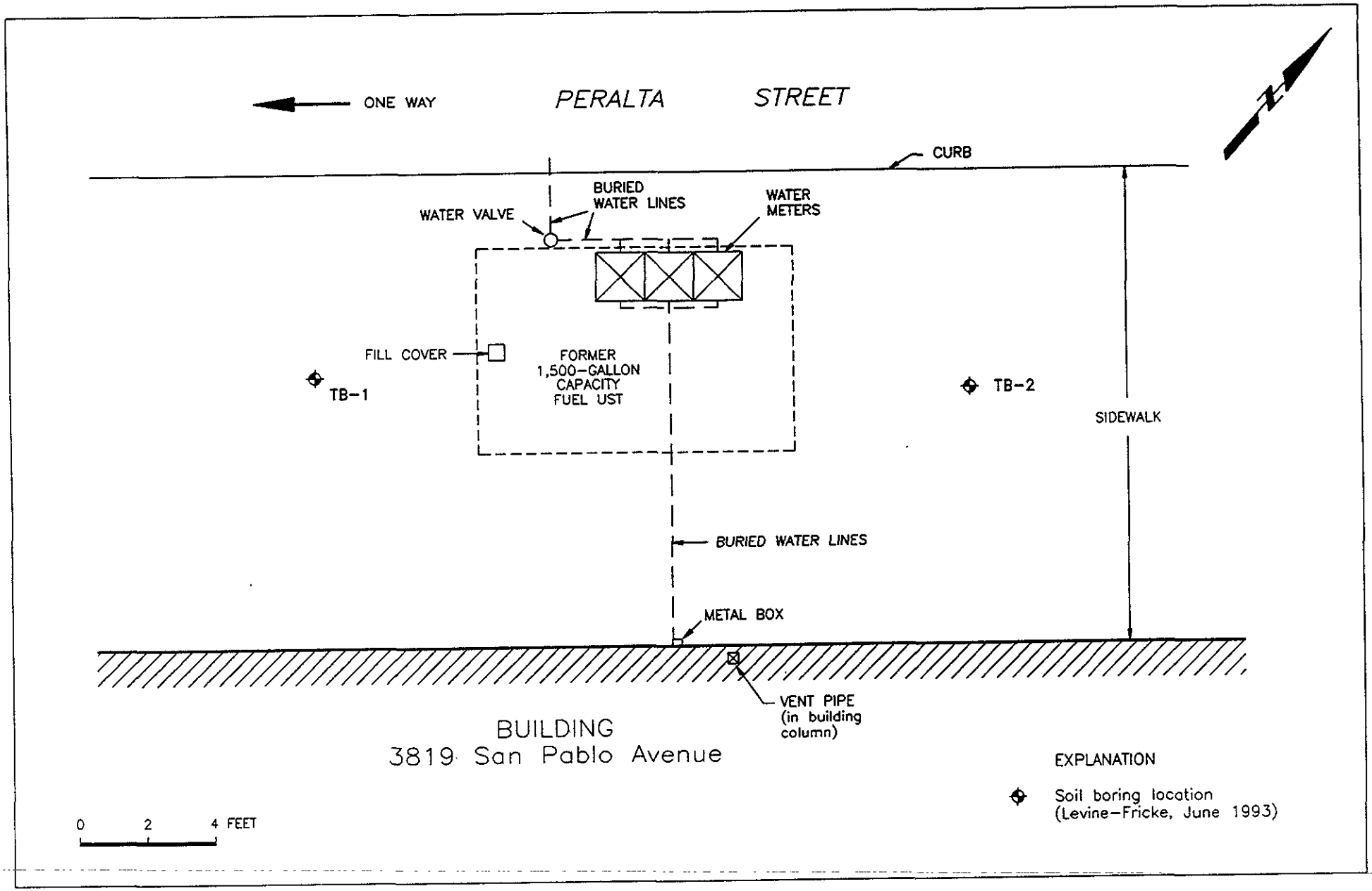

Figure 2 : SITE PLAN SHOWING APPROXIMATE LOCATION OF THE FORMER UST AND SOIL BORING LOCATIONS

Project No. 1649

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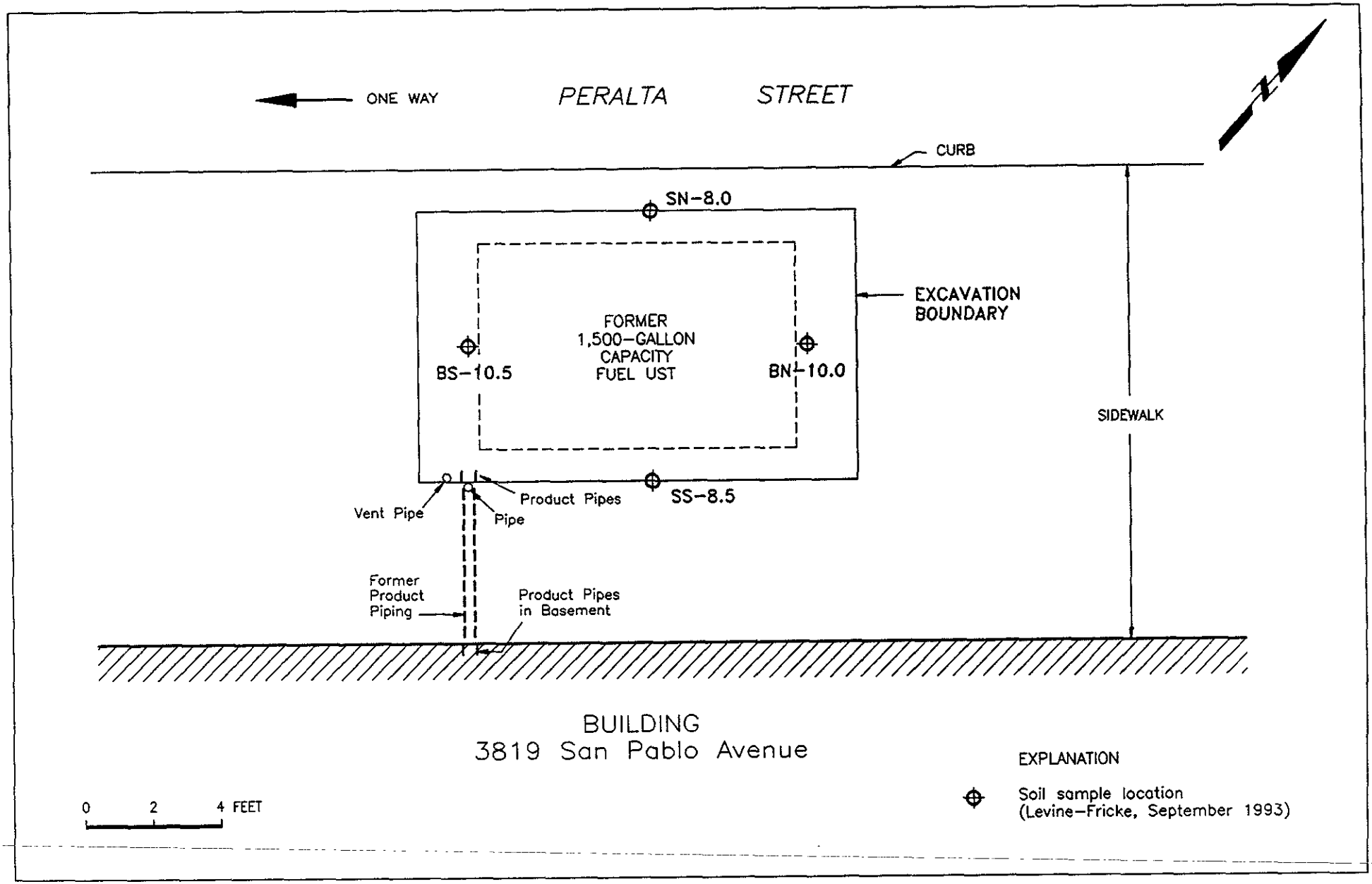


Figure 3 : APPROXIMATE EXCAVATION BOUNDARIES AND SOIL SAMPLE LOCATIONS

SUSAN L. HUGO

STID 1667

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
80 SWAN WAY, ROOM 200
OAKLAND, CA 94621
PHONE NO. 510/271-4320

ACCEPTED

Underground Storage Tank Closure Permit Application
Alameda County Division of Hazardous Materials
80 Swan Way, Suite 200
Oakland, CA 94621
Telephone: (510) 271-4320

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

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

Any changes or alterations of these plans and specifications must be submitted to this Department and to the Fire and Building Inspections Department to determine if such changes meet the requirements of State and local laws.

Notify this Department at least 72 hours prior to the following required inspections:

✓ Removal of Tank(s) and Piping
____ Sampling
____ Final Inspection

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

***THERE IS A FINANCIAL PENALTY FOR NOT OBTAINING THESE INSPECTIONS**

Contact Specialist:

Need to submit completed forms A & B.
Susan L. Hugo 8/23/93

UNDERGROUND TANK CLOSURE PLAN

* * * Complete according to attached instructions * * *

1. Business Name Catellus Development Corporation ✓

   Business Owner Same as Above

2. Site Address Adjacent to [redacted] (Site is Adjacent to Parking Lot)

   City Emeryville Zip 94608 Phone N/A

3. Mailing Address 201 Mission Street, 30th Floor

   City San Francisco, CA Zip 94105 Phone (415) 974-4500

4. Land Owner Catellus Development Corporation

   Address 201 Mission St., 30th Floor City, State San Francisco, CA Zip 94105

5. Generator name under which tank will be manifested _____

   Catellus Development Corporation

   EPA I.D. No. under which tank will be manifested CAD 983585746

6. Contractor Trumpp Bros. Inc.

Address 1540 Industrial Ave

City San Jose, CA Phone (408) 292-0820

License Type* A, B, C21, H ID# ~~77 0121947~~ 646168 5/31/94

*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. Indicate that the certificate has been received, in addition, to holding the appropriate contractors license type.

7. Consultant Levine-Fricke Inc.

Address 1900 Powell Street, 12th Floor

City Emeryville, CA Phone (510) 652-4500

8. Contact Person for Investigation

Name Michael Stoll Title Project Engineer

Phone (510) 652-4500

9. Number of tanks being closed under this plan 1

Length of piping being removed under this plan estimated <20-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 Evergreen Environmental Services EPA I.D. No. CAD 980695761 ~~980887418~~

Hauler License No. 0242 License Exp. Date 7/31/94

Address 6880 Smith Ave.

City Newark State CA Zip 94560

b) Product/Residual Sludge/Rinsate Disposal Site

Name Evergreen Environmental Services EPA I.D. No. CAD 980887418

Address 6880 Smith Ave.

City Newark State CA Zip 94560

c) Tank and Piping Transporter

Name Erickson, Inc. EPA I.D. No. CAD 009466392

Hauler License No. 0019 License Exp. Date 5/31/94

Address 255 Parr Blvd.

City Richmond State CA Zip 94801

d) Tank and Piping Disposal Site

Name Erickson, Inc. EPA I.D. No. CAD 009466392

Address 255 Parr Blvd.

City Richmond State CA Zip 94801

11. Experienced Sample Collector

Name Michael Stoll

Company Levine-Fricke Inc.

Address 1900 Powell Street, 12th Floor

City Emeryville State CA Zip 94608 Phone (510) 652-4500

12. Laboratory

Name Anametrix Inc.

Address 1961 Concourse Drive, Suite E

City San Jose State CA Zip 95131

State Certification No. 1234

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

If yes, describe.

14. Describe methods to be used for rendering tank inert

Residual liquids in the tank will be pumped out prior to excavation and dry ice will be added to purge aromatic hydrocarbons. A gas meter will be maintained on site throughout the excavation to insure that the tank is inert.

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, ground-water, etc.)	Location and Depth of Samples
Capacity	Use History (see instructions)		
2000 gallons (estimated)	Tank was used to store heating oil. It is unknown when the tank was last used.	Soil Water (if encountered)	no deeper than 2' beneath both ends of the tank (2 samples) 1 sample from the tank excavation

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) 20 cubic yards	Sampling Plan 4 discrete samples from the stockpile to be composited by the laboratory into 1 sample for analysis.

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
			Anametrix Inc.
Heating Oil (TPHd/TPHmo)	3550	GC FID, Mod. EPA 8015	10ppm-Soil 50ppb-Water
Heating Oil (BTEX)		GC FID, EPA 8020	0.005ppm-Soil 0.5ppb-Water
Heating Oil (Oil & Grease)		SM 5520 EF SM 5520 B F	30ppm-Soil 5 ppm-Water

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

18. Submit Worker's Compensation Certificate copy

Name of Insurer Fremont Indemnity 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) Gary Trumpp

Signature Gary Trumpp

Date 7-27-93

Signature of Site Owner or Operator

Name (please type) Kimberly Brandt Agent for Catellus

Signature KIMBERLY BRANDT AGENT FOR CATELLUS

Date 7/21/93

LEVINE•FRICKE, INC.

HSP APPROVAL REQUEST FORM

PROJECT AND SECTION NUMBER 1649.14

OFFICE NAME Emeryville, California

PACKAGE PREPARER NAME AND TITLE Michael Stoll, Project Geotechnical Engineer

CLIENT NAME Catellus Development Corporation

CLIENT ADDRESS 201 Mission Street, San Francisco, CA

CLIENT CONTACT Ms. Kimberly Brandt ✓

START DATE OF PROJECT 7/22/93 DURATION OF PROJECT 1 to 2 weeks

NAME AND TITLE OF PROJECT MANAGER Jenifer Beatty, Project Hydrogeologist

COMMENTS This HSP is designed to address the following tasks scheduled at the Site: UST removal, soil sampling, ground-water sampling, and excavation/backfilling observation.

APPROVED BY (PRINT NAME AND TITLE) SHARI A. SAMUELS
HEALTH & SAFETY

APPROVAL SIGNATURE [signature] DATE 7/14/93

OTHER APPROVALS IF NEEDED

SIGNATURE	TITLE	DATE

SIGNATURE	TITLE	DATE

CONTENTS

CONTENTS (continued)

July 14, 1993 LF 1649.14

REMOVAL OF ONE HEATING OIL UNDERGROUND STORAGE TANK AND ASSOCIATED PIPING FROM THE SIDEWALK ADJACENT TO 3819 SAN PABLO AVENUE EMERYVILLE, CALIFORNIA HEALTH AND SAFETY PLAN

1.0 PURPOSE

This document defines the Health and Safety considerations for the possible management of hazardous substances by Levine•Fricke personnel and subcontractors. This document is required by Levine•Fricke policies and procedures and may be required by OSHA 29 CFR 1910.120. The basic requirements for the health and safety of the project workers are delineated in the Levine•Fricke Health and Safety Procedures. All personnel on site will be informed about the pertinent sections of the HSP.

2.0 PROJECT STAFFING

PROJECT MANAGER	Jenifer Beatty
SITE SAFETY OFFICER	Michael Stoll
EMERGENCY COORDINATOR	Michael Stoll

3.0 SCOPE OF WORK

CHECK OFF APPROPRIATE CATEGORIES (MORE THAN ONE MAY APPLY)

X	TANK EXCAVATION	X	SOIL SAMPLING
X	SOIL EXCAVATION	o	ASBESTOS
o	POND CLEANUP	o	ON-SITE STORAGE
o	BUILDING DECONTAMINATION	o	CONSTRUCTION
o	MONITORING WELL INSTALLATION	o	DEMOLITION
o	ON-SITE TREATMENT SOIL	o	VAPOR SAMPLING
X	GROUND-WATER SAMPLING	o	OTHER_____
o	ON-SITE TREATMENT OF GROUND WATER		_____

Field activities at the Site relate to the removal of one underground storage tank. Levine•Fricke will observe the excavation of the tank. The tank will be removed by a subcontractor to Levine•Fricke using a backhoe. Levine•Fricke personnel will collect soil samples from the excavation limits. In addition, if ground-water is present in the excavation, a grab sample will be collected. Upon completion of sample collection activities, the excavation will be backfilled to grade.

3.1 Site Layout

The UST is located in the sidewalk area along Peralta Street adjacent to the side of the retail/residential building located at 3819 San Pablo Avenue.

4.0 HAZARD EVALUATION

A. PHYSICAL HAZARDS (TRENCHES, UTILITIES, TERRAIN, ETC.)
The use of heavy equipment at the Site poses potential physical hazards. Excavations pose a hazard for personnel around and entering the excavation.

B. CHEMICAL CONTAMINANTS AND HIGHEST CONCENTRATIONS DETECTED IN SOIL OR GROUND-WATER AT THE SITE

NAME OF MATERIAL	CONC. in ppm	TLV/PEL	ACTION LEVEL	MSDS AVAILABLE	HAZARD TO PERSONNEL
Oil and Grease	40				

CARCINOGENS?
o YES X NO

IF YES, LIST --

4.1 Task Specific Hazards

TASK Soil Sampling, UST and Soil Excavation Observation

1. Noise and other hazards associated with the operation of heavy equipment.

2. Workers will not enter unsupported/non-sloped excavations deeper than 4 feet. All requirements pursuant to 29 CFR 1926.651 and 652, Excavations, Trenching and Shoring, shall be observed.

TASK Ground-Water Sampling

1. Workers will not enter unsupported/non-sloped excavations deeper than 4 feet. All requirements pursuant to 29 CFR 1926.651 and 652, Excavations, Trenching and Shoring, shall be observed.

5.0 PROJECT MANAGEMENT

CREW SIZE

PROJECT MANAGER	Jenifer Beatty
CHEMIST	Doug Lipton
SITE SAFETY OFFICER	Michael Stoll and/or Shellie Fletcher

5.1 Subcontractors

Excavation contractors (Trumpp Bros. General Contractors of San Jose, California) with 40 hour OSHA training will complete the scheduled tasks.

6.0 MATERIAL HANDLING EQUIPMENT

(PROVIDE DETAILS, E.G., QUANTITIES AND TYPES)

_____	o	DRUM DOLLY	_____
_____	o	PUMPS	_____
_____	o	FORK TRUCK	_____
_____	o	MAN LIFT	_____
__2__	X	HEAVY EQUIP.	backhoe/excavator to remove UST/soil and soil, compactor to compact the backfill soils
_____	o	CRANE	_____
__1__	X	VACUUM TANKER	Licensed hauler for UST contents
_____	o	AIR COMPRESSOR	_____

7.0 REPORTING AND RECORDKEEPING

7.1 General

Recordkeeping shall be consistent with OSHA regulations in all respects. The following records will be maintained in the Corporate Health and Safety Director's Office, the local Levine•Fricke Office and/or at the site:

- The Health and Safety Log--The log documents the Site Safety officer's daily activities pertaining to site health and safety compliance.
- OSHA 200 Log and Summary of Occupational Injuries and Illnesses--Current within 72 hours. Will be maintained in the appropriate local office and Health and Safety Director's office.
- Respirator Fit Test Records
- Training and Medical Certificates
- Tailgate Safety Meeting Records

8.0 ENVIRONMENTAL SAMPLING

SAMPLING REQUIRED X YES o NO

SOIL SAMPLING EQUIPMENT USED: A mallet will be used to drive brass tubes into the soil.

WATER/LIQUID SAMPLING EQUIPMENT USED: A disposable sampling bailer will be used to collect the ground-water sample (if required) from the excavation.

9.0 TRAINING

LEVINE•FRICKE CREW RECEIVED INITIAL 40-HOUR TRAINING

X YES o NO

IF NO, WHY? _____

_____

SUBCONTRACTOR RECEIVED REQUIRED TRAINING

X YES o NO Trumpp Bros. contractors have received the required training

IF NO, WHY? _____

_____

SAFETY BRIEFINGS ARE HELD EACH SHIFT

WHO CONDUCTS MEETING? The Levine•Fricke SSO

WHERE ARE RECORDS STORED? Levine•Fricke project files

10.0 MEDICAL REQUIREMENTS

ENTIRE CREW RECEIVED BASELINE PHYSICAL EXAMINATIONS

X YES o NO

IF NO, WHY? _____

_____

SPECIAL TESTS REQUIRED None

11.0 CONTAMINATION CONTROL

- The job site is partitioned into three distinct zones: clean zone, contamination reduction zone, and exclusion zone.
- Workers may only enter and exit from the exclusion zone via the contamination reduction zone.
- Only authorized personnel are allowed to enter the exclusion or the contamination reduction zone.
- Section 16 includes a site map defining the zones.
- Section 17 describes the personnel and equipment decontamination procedures.

12.0 WORKER PROTECTION

12.1 Personal Protective Equipment

1. WORK TASK DESCRIPTION soil and ground-water sampling, UST and soil excavation observation

2. LEVEL o A o B o C X D

3. RESPIRATORY PROTECTION No

4. PROTECTIVE CLOTHING

X HARD HAT

EYE PROTECTION

X SAFETY GLASSES WITH SIDE SHIELDS
o CHEMICAL RESISTANT GOGGLES
o FACE SHIELD
o OTHER _____

BODY PROTECTION Not Applicable

GLOVES -when sampling

o LATEX
o SURGICAL RUBBER
o VITON
X PVC
o NEOPRENE
o NEOPRENE (MILLED)
o SILVERSHIELD
o LEATHER
o COTTON
o OTHER _____

BOOTS

X LEATHER - STEEL TOED
o PVC - STEEL TOED
o NEOPRENE - STEEL TOED
o PVC BOOTIES
o TYVEK BOOTIES
o OTHER _____

HEARING PROTECTION

o EAR MUFFS
X EAR PLUGS
o OTHER _____

12.2 General Safety Equipment

- o SAFETY SHOWER
- o EYEWASH
- X BARRIERS
- o WARNING SIGNS
- X BARRIER TAPE
- o WATER/GATORADE
- o DECON BARRELS
- o LIGHTING _____

- o LIFELINE/HARNESS
- o EXTRACTION DEVICE
- o AIR HORNS

X FIRE EXTINGUISHERS --to be supplied by the contractor and Levine•Fricke.

COMMUNICATION SYSTEMS-- Mobile cellular telephone on site for emergency use and pagers for Levine•Fricke personnel

SANITARY FACILITIES --Potable water will be brought to the site by Levine•Fricke personnel. Toilets are available at nearby Levine•Fricke sites or at the Levine•Fricke maintenance facility.

13.0 PERSONNEL MONITORING PLAN

AIR MONITORING REQUIRED o Yes X NO

EXPLAIN STRATEGY Air monitoring is not required, however a Photoionization detector will be used to monitor volatile organic chemical concentrations in the breathing zone. If ambient air concentrations of VOCs in the breathing zone reach 25 parts per million (ppm) or greater, personnel shall upgrade to Level C using half-face air-purifying respirators equipped with NIOSH-approved high efficiency particulate/organic vapor combination cartridges.

SAMPLING EQUIPMENT

o COMBUSTIBLE GAS/OXYGEN METER
o DRAEGER TUBES
X PHOTOIONIZATION DETECTOR
o FLAME IONIZATION DETECTOR
o INFRARED DETECTOR
o AEROSOL MONITOR
o SAMPLING PUMPS
o AND MEDIA _____

OTHER _____

HEAT STRESS MONITORING X YES o NO

NAMES OF MONITORING TECHNICIANS

Michael Stoll and/or Shellie Fletcher

LOCATION OF MONITORING RECORDS Levine•Fricke project files

14.0 SITE SAFETY OFFICER RESPONSIBILITIES

The Site Safety Officer (SSO) or Designee will enter before any work begins and will verify that the established zones are identified and escape routes are clear.

The daily site entry procedure will include the following:

- Determine the wind direction and stay appraised of it throughout the stay. Identify the direction during the tailgate safety meeting or informally with each affected employee.
- Confirm the proper placement of emergency information and operational status of equipment and the decontamination facility.
- Monitor the air as necessary for conditions that may cause injury or exposure and record all data.
- Visually observe for signs of actual or potential life- or health-threatening hazards.
- Note physical conditions of the site. Determine potential exposure pathways.
- Use survey tape or markers to identify new boundaries of the zones.
- Document site activities in a daily log. Record observations related to field conditions and the site.

15.0 GENERAL SAFE WORK PRACTICES

- All accidents and incidents must be reported to the supervisor immediately.
- All defects/malfunctions which appear during the course of the work shift must be reported to the supervisor.
- No eating, drinking, smoking, chewing tobacco or gum is allowed in the exclusion or contamination reduction zones.
- Employees shall inform their supervisors of any prescription medications they are using while at work that can affect their abilities.
- Employees shall not show up for work under the influence or in possession of alcohol or illicit drugs.
- Only Levine•Fricke-approved personal protective equipment shall be used by Levine•Fricke employees.
- Employees shall not remove or disturb any covering, guards, or safety devices placed on vehicles, gears, or other moving equipment or machinery, except to perform maintenance or repairs. Work on the equipment shall not commence until the equipment has been deactivated, sources of energy are removed, and controls are locked and tagged out.
- Before starting any vehicle or machinery, or turning on electricity, gas, steam, or air, employees will check the entire area to ensure that it is safe to proceed with the work. Out of service or locked out equipment is not to be started by anyone unless authorized by a supervisor.
- Employees shall maintain good housekeeping of the facilities and remove or dispose of all unnecessary materials.
- Special operations, including confined space entry, hot work, and decommissioning of equipment for repairs, require permits to be signed by authorized personnel. A description of the procedures will be included as an appendix.

- Trenching or excavations must be shored or sloped or appropriately prepared as required by OSHA standards. A description of the techniques to be used is included as an appendix, if appropriate.

16.0 WORK ZONE MAP

(Can be completed on site during the first working day.)

17.0 DECONTAMINATION PROCEDURES

PERSONNEL DECONTAMINATION PROCEDURES-- Disposable gloves, sampling equipment and other disposable clothing or equipment worn by Levine•Fricke personnel will be placed in a suitable disposal container on site at the end of each work day. Protective clothing will be replaced if its protective function is compromised through holes or tears.

EQUIPMENT DECONTAMINATION PROCEDURES-- Equipment that comes in contact with on-site soils or ground-water that apparently contain chemicals identified at the site will be brushed off before removal from the site area.

LAUNDERING PROCEDURE FOR WORK CLOTHES-- Wash separately.

18.0 LEVINE•FRICKE INTERNAL CALL LIST

IN THE EVENT OF INJURY, FIRE, EXPLOSION, SPILL, RELEASE, OR OTHER NONROUTINE EVENTS, IMMEDIATELY CONTACT ONE OF THE FOLLOWING PEOPLE, IN THIS ORDER:

1. Shari Samuels (510)652-4500 or (510)943-2303
2. JoAnn Weber (510)652-4500
3. Michael Stoll (510)652-4500
4. Jenifer Beatty (510)652-4500

19.0 HAZARDOUS WASTE OPERATIONS CONTINGENCY PLAN

GENERATOR'S NAME: Catellus Development Corporation

OWNER'S NAME: Foxwater Group

WORK LOCATION: 3819 San Pablo Avenue, sidewalk area along Peralta Street, California

CONTACT: Ms. Kimberly Brandt (Catellus) PHONE #(415) 974-4500

LEVINE•FRICKE PROJECT MANAGER: Jenifer Beatty

19.1 General Injury

- Step 1: Use first-aid kit on site, if appropriate.
- Step 2: Use off-site medical help and/or assistance if appropriate.
- Step 3: Notify SSO, On-Site Project Manager, and Health and Safety Director.

19.2 Specific Treatments

- Eye Exposure: Flush eye with eye wash, contact ambulance.
- Skin Exposure: Wash immediately with soap and water; contact ambulance, if appropriate.
- Fire (localized): Use fire extinguisher and activate alarm system, if appropriate.
- Fire (uncontrolled): Call Fire Department.
- Chemical Spill: Contact Fire Department and National Response Center for Toxic Chemical and Oil Spills.
- Explosion: Contact Fire Department if potential for additional explosions or fire danger exists.
- Inhalation: Move person to clean air and cover source of chemicals, if possible.
- Swallowing: Contact ambulance service.

EMERGENCY PHONE NUMBERS:

- POLICE 911
- FIRE 911

Hazardous Materials Release Response/Reporting

- National Response Center 1-800-424-8802
- California Office of Emergency Services 1-800-852-7550

Toxics Information

- CHEMTREK 1-800-424-6699
- Poison Control Center 1-415-476-6600
- AMBULANCE 911
- HOSPITAL

  Emergency Room 1-510-204-1303
  Alta Bates Hospital
  2450 Ashby Avenue
  Berkeley, California

  See attached map for route to hospital.

20.0 CONTRACTOR AND SUBCONTRACTOR AGREEMENTS

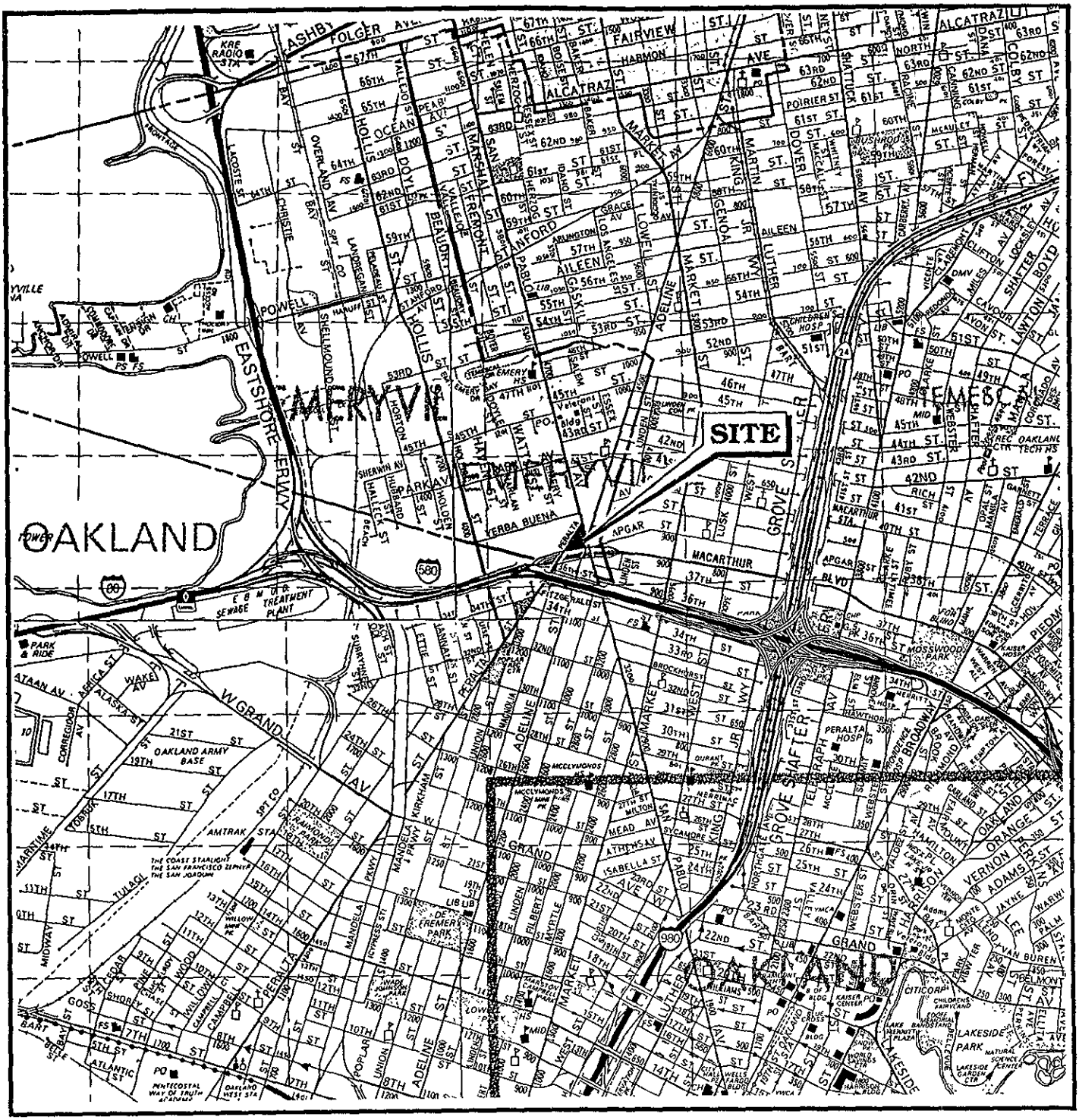
Contractor and Subcontractor Agreements:

1. Contractor certifies that the following personnel to be employed on the Site adjacent to 3819 San Pablo Avenue, Emeryville have met the Hazards and Protection requirements of the OSHA Hazardous Waste Operations and Emergency Response Standard (29 CFR 1910.120) and other applicable standards.

2. Contractor certifies that, in addition to meeting the OSHA requirements, she/he has received a copy of this HSP and will insure that the employees and subcontractors of the Contractor are informed, and will comply with both OSHA requirements and the guidelines in this HSP.

3. Contractor further certifies that she/he has read, understands, and will comply with all provisions of this HSP and will not hold Levine•Fricke responsible or liable for any injury or health problems that may occur.

Contractor Personnel	Training/ Certification/ Medical Examination	Signature	Date
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____



MAP SOURCE:
Thomas Bros. Map
Alameda and Contra Costa Counties
1992 EDITION

Figure 1: SITE LOCATION MAP

Project No. 1649.14

LEVINE•FRICKE
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

MJS15JUL93◀RYL

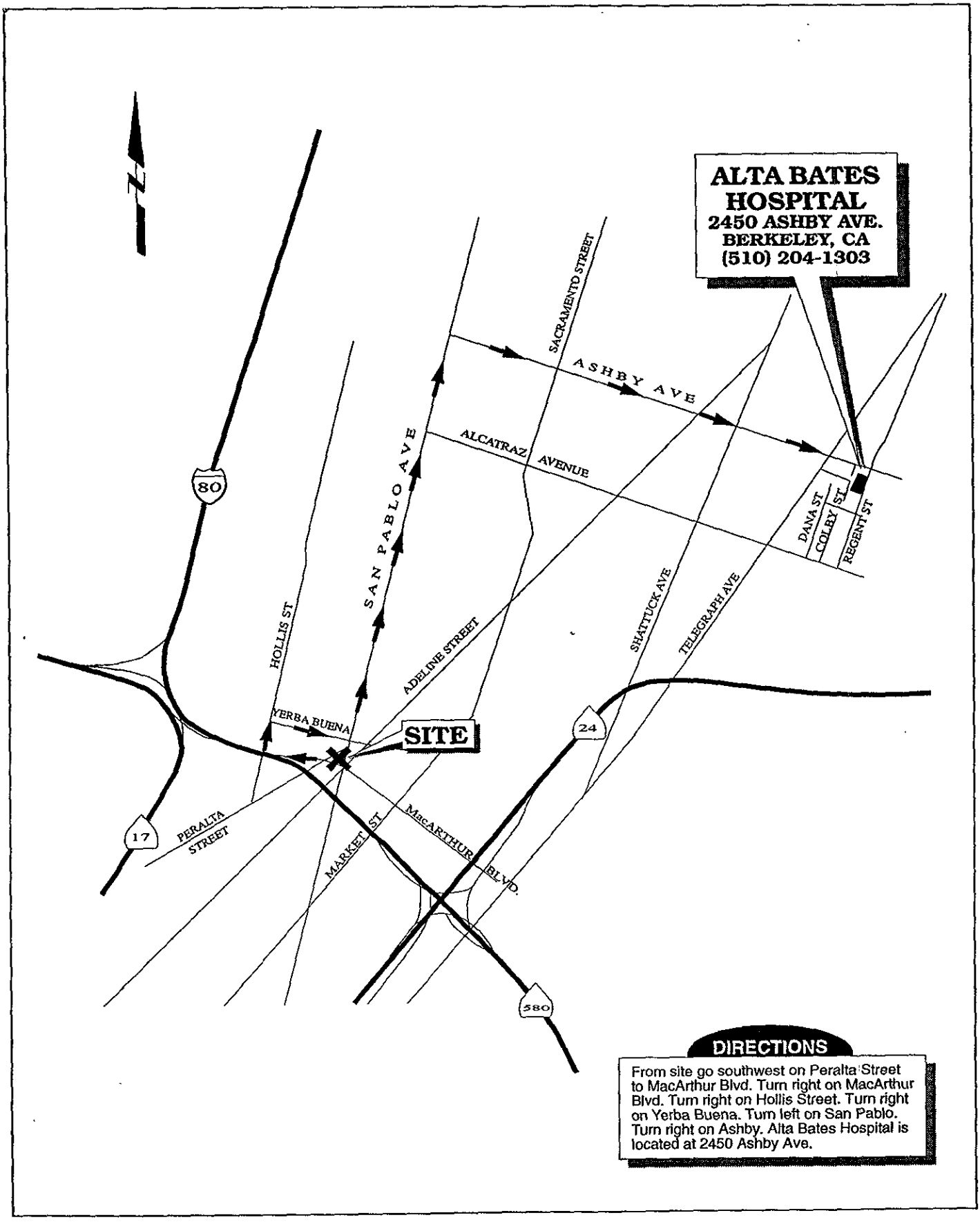
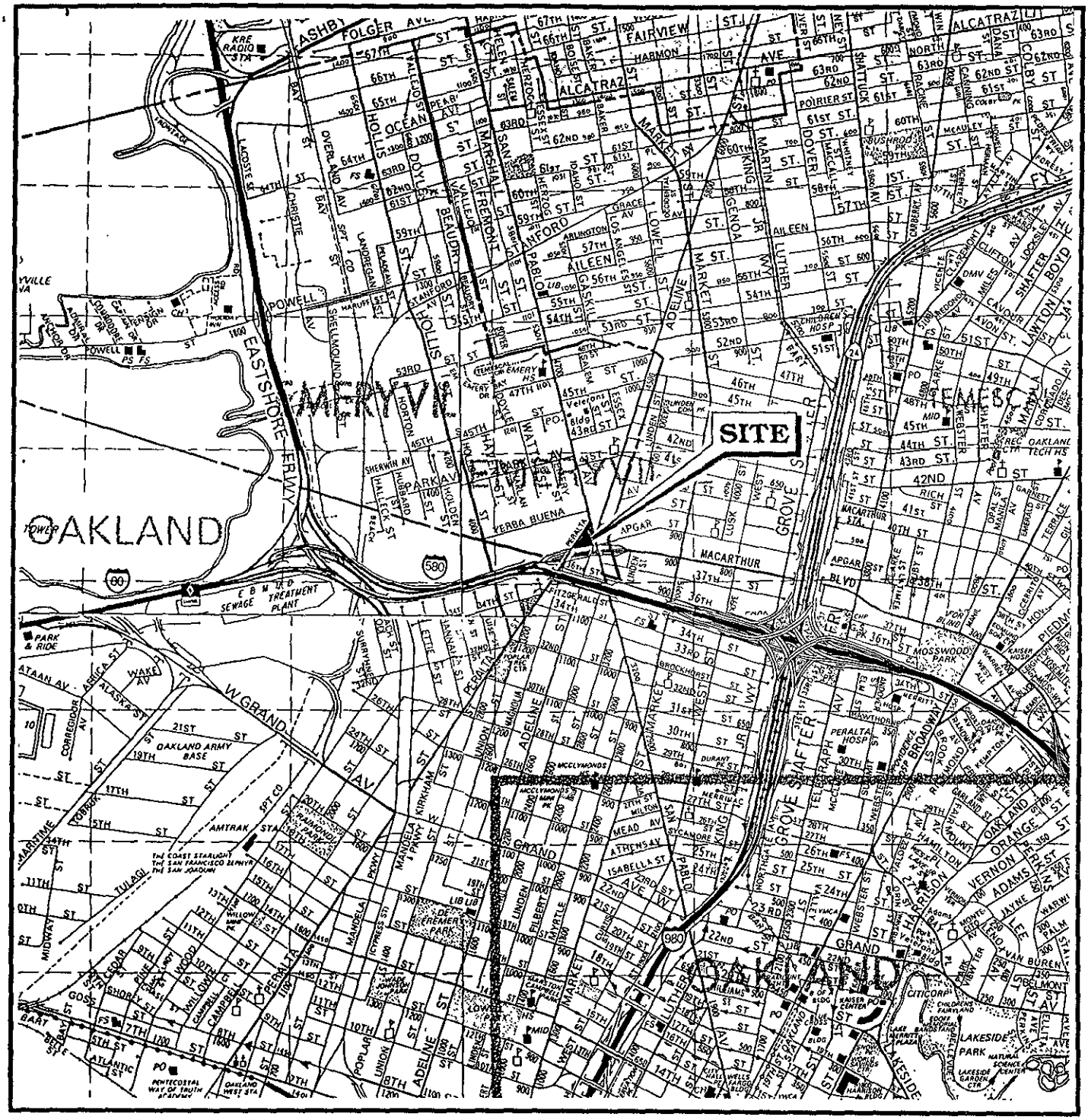


Figure 2 : HOSPITAL ROUTE MAP



MAP SOURCE:
Thomas Bros. Map
Alameda and Contra Costa Counties
1992 EDITION

Figure 1: SITE LOCATION MAP

Project No. 1649.14

LEVINE•FRICKE
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

MJS15JUL93◆RYL

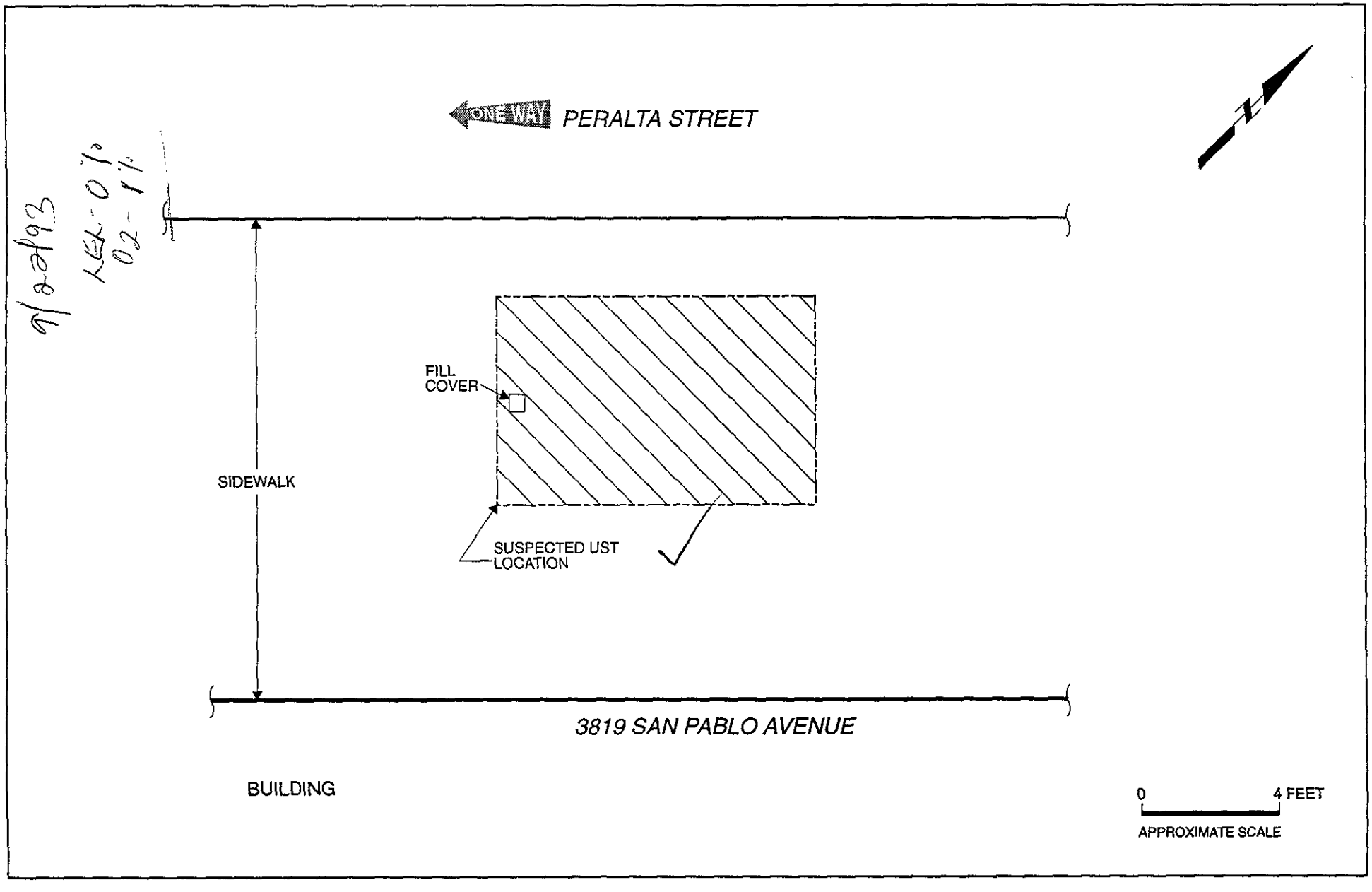


Figure 2 : SITE PLAN

ACORD CERTIFICATE OF INSURANCE

ISSUE DATE (MM/DD/YY) 6/30/93

PRODUCER
Rollins Hudig Hall
1737 N. First St., Ste. 400
San Jose, CA 95112
Carlyn Eaton/Jeff Aber
408-436-7160

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
Trumpp Brothers Inc.
1540 Industrial Avenue
San Jose
CA 95112

COMPANIES AFFORDING COVERAGE

COMPANY LETTER A	Transcontinental
COMPANY LETTER B	Transportation
COMPANY LETTER C	Fremont Indemnity Co.
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	
A	GENERAL LIABILITY [X] COMMERCIAL GENERAL LIABILITY [ ] CLAIMS MADE [X] OCCUR. [X] OWNER'S & CONTRACTOR'S PROT.	CO121630102	7/01/93	7/01/94	GENERAL AGGREGATE	$ 2000000
					PRODUCTS-COMP/OP AGG.	$ 1000000
					PERSONAL & ADV. INJURY	$ 1000000
					EACH OCCURRENCE	$ 1000000
					FIRE DAMAGE (Any one fire)	$ 50000
					MED EXPENSE (Any one person)	$ 5000
B	AUTOMOBILE LIABILITY [X] ANY AUTO [ ] ALL OWNED AUTOS [ ] SCHEDULED AUTOS [X] HIRED AUTOS [X] NON-OWNED AUTOS [ ] GARAGE LIABILITY	121630133	7/01/93	7/01/94	COMBINED SINGLE LIMIT	$ 1000000
					BODILY INJURY (Per person)	$
					BODILY INJURY (Per accident)	$
					PROPERTY DAMAGE	$
	EXCESS LIABILITY [ ] UMBRELLA FORM [ ] OTHER THAN UMBRELLA FORM				EACH OCCURRENCE	$
					AGGREGATE	$
					STATUTORY LIMITS	
C	WORKER'S COMPENSATION AND EMPLOYERS' LIABILITY	WP9253353301	7/01/93	7/01/94	EACH ACCIDENT	$ 1000000
					DISEASE-POLICY LIMIT	$ 1000000
					DISEASE-EACH EMPLOYEE	$ 1000000
	OTHER					

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS

CERTIFICATE HOLDER

01 Alameda County Health Care
Dept Environmental Health
80 Swan Way, Rm. 200
Oakland, CA 94621

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 001037000

ACORD 25-S (7/88)

END

LOP 1667

LEVINE•FRICKE
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

Letter of Transmittal

Date 8-2-93

From Michael Stoll
To Ms. Susan Hugo
Alameda County Health Care Services Agency
80 Swan Way, Room 200
Oakland, CA 94621

Project No. 1649.14
Subject UST Removal - Peralta St
Yerba Buena Project

The following items are: ☐ Requested ☒ Enclosed ☐ Sent separately
via certified mail

Description	No. of Copies
Alameda County Tank closure Plan (orig + 2 copies)	3
Health & Safety Plan (3 copies) - includes Plot Plan	3
Plot plan and contractors Workmans Comp certificate (3 copies)	3
☐ Check for $483 made payable to Alamade County (orig)	—

returned 8/9/93

These data are transmitted:
☐ At your request ☒ For your action
☐ For your approval ☐ For your files
☐ For your review ☐ For your information

Comments

Susan - Here is the information required for the heating oil UST removal ~~that~~ [Jenifer Beatty (Levine-Fricke) has previously discussed the UST with you] along Peralta Street in Emeryville.

I will be in touch with you soon to let you know our tentative schedule.

Sincerely,

Michael Stoll
(Signed)

'93 AUG -6 PM 2:08

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

Returned to LF. 8/9/93

LEVINE·FRICKE
CONSULTING ENGINEERS AND HYDROGEOLOGISTS
1900 POWELL STREET, SUITE #1200
EMERYVILLE, CALIFORNIA 94608
(510) 652-4500

CivicBank of Commerce
1814 Franklin Street
Oakland, CA 94612

90-4095
1211

42437

FOUR HUNDRED EIGHTY THREE DOLLARS AND 00/100----------

DATE	CHECK NO.	AMOUNT
7/30/93	42437	$483.00

PAY TO THE ORDER OF

ALAMEDA COUNTY HEALTH CARE SERVICE AGENCY
80 SWON WAY, ROOM 200
OAKLAND, CA 94621

LEVINE•FRICKE, INC.

Thao Hall

⑈042437⑈ ⑆121140959⑆ 10502012691⑈

white -env.health
yellow -facility
pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

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

Hazardous Materials Inspection Form

II,III

Site ID # 1067 Site Name Catellus YERBA BUENA Proj. Today's Date 9/22/93

Site Address Corner of San Pablo & Peralta

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

11:00 →

* 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 tstng
8) Annual Tank Testing
Daily Inventory
9) Other _____

X-UGT SP Bldg

___	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

Rev 6/88

Comments: Emeryville Fire Dept (Bernard Anthoney) on site

1 — gallon Heating fuel tank removal (5 Ft x 9 Ft) dimension

LEL = 0 % & O2 = 1 %

Erickson - Hauler of tank manifest #

Bottom of the tank had holes

One sample from the bottom of tank collected at 9 1/2 ft Bgs.

Will overexcavate on both ends.

One soil sample fr. the sidewall next to bldg & one sidewall soil sample next to the Peralta Street collected for verification.

Use only clean fill to backfill the excavation pit. (Control density fill)

Analyse for TPH-d, BTEX, TOG.

II, III

Contact: _____

Title: _____ Inspector: _____

Signature: _____ Signature: Susan L. Hugo

APPENDIX A

FUEL CHARACTERIZATION LABORATORY RESULTS

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Andrew John Friedman
James E. Bruya, Ph.D.
(206) 285-8282

3008-B 16th Avenue West
Seattle, WA 98119
FAX: (206) 283-5044

June 10, 1993

Jennifer Beatty, Project Leader
Levine-Fricke, Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608

Dear Ms Beatty:

Enclosed are the results from the testing of material submitted on June 8, 1993 from Project 1649.14, Yerba Buena.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

Stephen D. Zappone
Chemist

SDZ/dp

Enclosures

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: June 10, 1993
Date Received: June 8, 1993
Project: 1649.14, Yerba Buena
Date Samples Extracted: June 8, 1993
Date Extracts Analyzed: June 8, 1993

RESULTS FROM THE ANALYSIS OF THE PRODUCT SAMPLE FOR FINGERPRINT CHARACTERIZATION BY CAPILLARY GAS CHROMATOGRAPHY USING A FLAME IONIZATION DETECTOR (FID) AND ELECTRON CAPTURE DETECTOR (ECD)

Sample #	GC Characterization
Tank	The GC trace using the flame ionization detector (FID) showed the presence of medium boiling compounds. The patterns displayed by these peaks are indicative of diesel fuel or fuel oil. The medium boiling compounds appeared as a regular broad hump of an unresolved pattern of peaks eluting from *n*-C_{10} to *n*-C_{28} showing a maximum near *n*-C_{17}. A regular pattern of the *n*-alkanes is seen for this product. Peaks are seen on the GC/ECD trace indicative of halogenated or oxidized hydrocarbons, possibly due to the presence of PCBs. The material appears to be unweathered due to the abundance of the *n*-alkanes. The large peak at 25 minutes is pentacosane, a compound added in the laboratory as a QA/QC check.

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

[redacted] 10:30 pm

Project No.: 1649.14	Field Logbook No.:	Date: 6/7/93	Serial No.: 11633
Project Name: Yerba Buena	Project Location: EMERYVILLE		
Sampler (Signature): Jenifer Beatty			

SAMPLES						ANALYSES								Samplers: JJB
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CONTAINERS	SAMPLE TYPE	EPA 601	EPA 624					HOLD	RUSH	REMARKS
TANK	6/7/93		40571-72	2										Fuel Characterization Analysis. Results to Jenifer Beatty

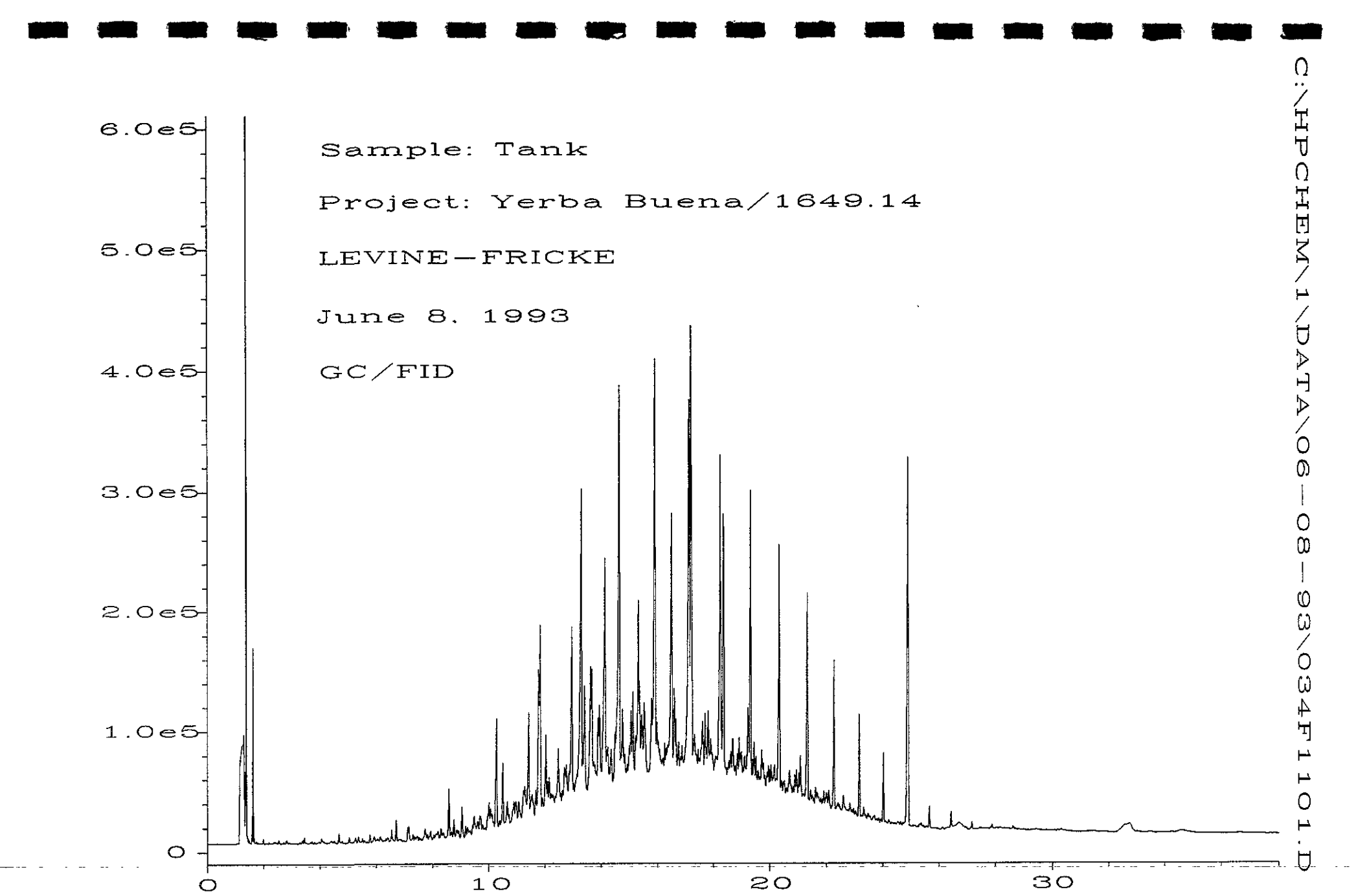
RELINQUISHED BY: (Signature) Jenifer Beatty	DATE 6/7/93	TIME 915	RECEIVED BY: (Signature) C.K. Fricke	DATE 6.8.93	TIME 10:30
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS:		

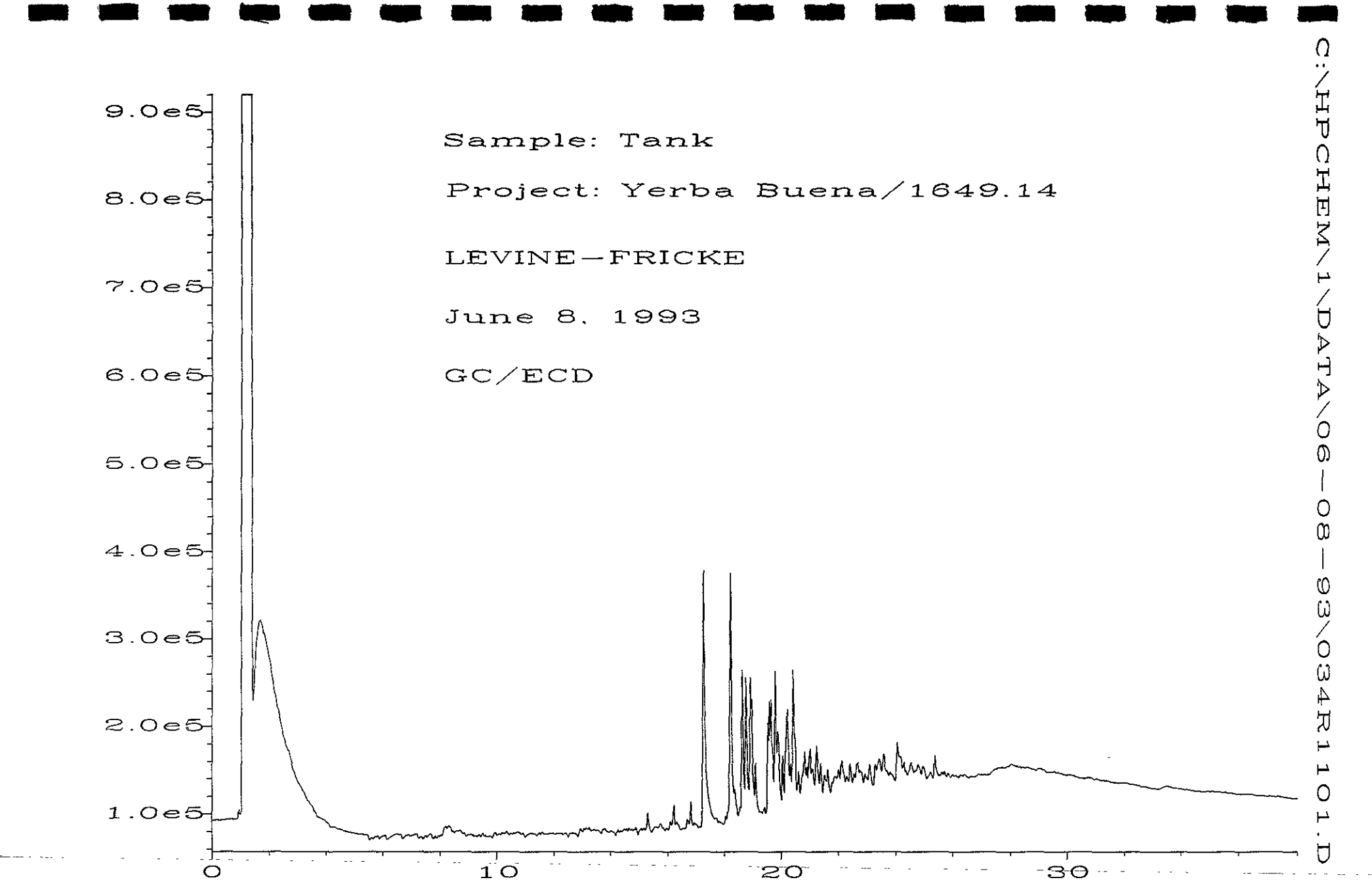
Sample Collector:
LEVINE-FRICKE
1900 Powell Street, 12th Floor
Emeryville, Ca 94608
(415) 652-4500

Analytical Laboratory:
FRIEDMAN + BRUYA.

(White) Lab Copy (Green) File Copy (Yellow) Field Copy (Pink)

FORM NO. 86/COC/ARF


Sample: Tank
Project: Yerba Buena/1649.14
LEVINE-FRICKE
June 8. 1993
GC/FID
6.0e5
5.0e5
4.0e5
3.0e5
2.0e5
1.0e5
0
0
10
20
30
C:\HPCHEM\1\DATA\06-08-93\034F1101.D


Sample: Tank
Project: Yerba Buena/1649.14
LEVINE-FRICKE
June 8, 1993
GC/ECD
9.0e5
8.0e5
7.0e5
6.0e5
5.0e5
4.0e5
3.0e5
2.0e5
1.0e5
0
10
20
30
C:\HPCHEM\1\DATA\06-08-93\034R1101.D

APPENDIX B

LABORATORY CERTIFICATES FOR SOIL SAMPLES

Inchcape Testing Services
Anametrix Laboratories

1961 Concourse Drive
Suite E
San Jose, CA 95131
Tel: 408-432-8192
Fax: 408-432-8198

MS. JENIFER BEATTY
LEVINE-FRICKE
1900 POWELL STREET 12TH FLOOR
EMERYVILLE, CA 94608

Workorder # : 9306267
Date Received : 06/18/93
Project ID : 1649.14
Purchase Order: N/A

The following samples were received at Anametrix, Inc. for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9306267- 1	TB-1-10
9306267- 2	TB1-13.5
9306267- 3	TB-2A-10

This report consists of 18 pages not including the cover letter, and is organized in sections according to the specific Anametrix laboratory group or section which performed the analysis(es) and generated the data. The Report Summary that precedes each section will help you determine which Anametrix group is responsible for those test results, and will bear the signatures of the department supervisor and the chemist who have reviewed the analytical data. Please refer all questions to the department supervisor who signed the form.

Anametrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234. A detailed list of the approved fields of testing can be obtained by calling our office, or the DHS Environmental Laboratory Accreditation Program at (415)540-2800.

If you have any further questions or comments on this report, please give us a call as soon as possible. Thank you for using Anametrix.

Sarah Schoen, Ph.D.
Laboratory Director

07-06-93
Date

COPY

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MS. JENIFER BEATTY
LEVINE-FRICKE
1900 POWELL STREET 12TH FLOOR
EMERYVILLE, CA 94608

Workorder # : 9306267
Date Received : 06/18/93
Project ID : 1649.14
Purchase Order: N/A
Department : GC
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9306267- 1	TB-1-10	SOIL	06/18/93	TPHd
9306267- 3	TB-2A-10	SOIL	06/18/93	TPHd
9306267- 1	TB-1-10	SOIL	06/18/93	TPHgBTEX

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MS. JENIFER BEATTY
LEVINE-FRICKE
1900 POWELL STREET 12TH FLOOR
EMERYVILLE, CA 94608

Workorder # : 9306267
Date Received : 06/18/93
Project ID : 1649.14
Purchase Order: N/A
Department : GC
Sub-Department: TPH

QA/QC SUMMARY :

- The concentrations reported as the C22-C36 range hydrocarbons were calculated using a diesel initial calibration.

Cheryl Balsmeier 7/6/93
Department Supervisor Date

Charles M Burch 7 6.93
Chemist Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS AS C4-C12
(GASOLINE WITH BTEX)
ANAMETRIX, INC. - (408) 432-8192

Anametrix W.O.: 9306267 Project Number : 1649.14
Matrix : SOIL Date Released : 07/02/93
Date Sampled : 06/18/93

COMPOUNDS	Reporting Limit (mg/Kg)	Sample I.D.# TB-1-10 -01	Sample I.D.# BU2902E3 BLANK
Benzene	0.005	ND	ND
Toluene	0.005	ND	ND
Ethylbenzene	0.005	ND	ND
Total Xylenes	0.005	ND	ND
TPH as Gasoline	0.5	ND	ND
% Surrogate Recovery		87%	84%
Instrument I.D.		HP4	HP4
Date Analyzed		06/29/93	06/29/93
RLMF		1	1

ND - Not detected at or above the practical quantitation limit for the method.
TPHg - Total Petroleum Hydrocarbons as C4-C12 is determined by GCFID using modified EPA Method 8015 following sample purge and trap by EPA Method 5030.
BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA Method 8020 following sample purge and trap by EPA Method 5030.
RLMF - Reporting Limit Multiplication Factor.

Anametrix control limits for surrogate p-Bromofluorobenzene recovery are 53-147%.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Charleston Bunch 7.2.93
Analyst Date

Supervisor Date 7/2/93

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS AS DIESEL
ANAMETRIX, INC. (408) 432-8192

Anametrix W.O.: 9306267
Matrix : SOIL
Date Sampled : 06/18/93
Date Extracted: 06/21/93

Project Number : 1649.14
Date Released : 07/02/93
Instrument I.D.: HP09

Anametrix I.D.	Client I.D.	Date Analyzed	Reporting Limit (mg/Kg)	Amount Found (mg/Kg)
9306267-01	TB-1-10	06/30/93	10	ND
9306267-03	TB-2A-10	06/30/93	10	ND
BU21H1F1	METHOD BLANK	06/30/93	10	ND

Note : Reporting limit is obtained by multiplying the dilution factor times 10 mg/Kg.
ND - Not detected at or above the practical quantitation limit for the method.
TPHd - Total Petroleum Hydrocarbons as C12-C22 is determined by GCFID following sample extraction by EPA Method 3550.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Charlesin Burch 7.6.93
Analyst Date

Cheryl Bowmer 7/6/93
Supervisor Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL
ANAMETRIX, INC. (408) 432-8192

Anametrix W.O.: 9306267
Matrix : SOIL
Date Sampled : 06/18/93
Date Extracted: 06/21/93

Project Number : 1649.14
Date Released : 07/02/93
Instrument I.D.: HP09

Anametrix I.D.	Client I.D.	Date Analyzed	Reporting Limit (mg/Kg)	Amount Found (mg/Kg)
9306267-01	TB-1-10	06/30/93	10	ND
9306267-03	TB-2A-10	06/30/93	10	ND
BU21H1F1	METHOD BLANK	06/30/93	10	ND

Note : Reporting limit is obtained by multiplying the dilution factor times 10 mg/Kg.
ND - Not detected at or above the practical quantitation limit for the method.
TPHd - Total Petroleum Hydrocarbons as C22-C36 is determined by GCFID following sample extraction by EPA Method 3550.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Charleston Burch 7-6-93
Analyst Date

Supervisor Date

TOTAL EXTRACTABLE HYDROCARBON MATRIX SPIKE REPORT
EPA METHOD 3550 WITH GC/FID
ANAMETRIX, INC. (408) 432-8192

Sample I.D.	: 1649.14 TB-2A-10	Anametrix I.D.	: 06267-03
Matrix	: SOIL	Analyst	: CMB
Date Sampled	: 06/18/93	Supervisor	:
Date Extracted	: 06/21/93	Date Released	: 07/02/93
Date Analyzed	: 06/30/93	Instrument I.D.	: HP9

COMPOUND	SPIKE AMT (mg/Kg)	SAMPLE CONC (mg/Kg)	REC MS (mg/Kg)	% REC MS	REC MD (mg/Kg)	% REC MD	RPD	% REC LIMITS
Diesel	125	0	66	53%	64	51%	-3%	32-143

* Quality control limit established by Anametrix, Inc.

TOTAL VOLATILE HYDROCARBON LABORATORY CONTROL SAMPLE REPORT
EPA METHOD 5030 WITH GC/FID
ANAMETRIX, INC. (408) 432-8192

Sample I.D.	: LAB CONTROL SAMPLE	Anametrix I.D.	: MU2901E1
Matrix	: SOIL	Analyst	: CMB
Date Sampled	: N/A	Supervisor	:
Date Analyzed	: 06/29/93	Date Released	: 07/02/93
		Instrument I.D.	: HP4

COMPOUND	SPIKE AMT. (mg/Kg)	REC LCS (mg/Kg)	%REC LCS	% REC LIMITS
GASOLINE	0.50	0.49	98%	58-130
p-BFB			58%	53-147

* Quality control established by Anametrix, Inc.

TOTAL EXTRACTABLE HYDROCARBON LABORATORY CONTROL SAMPLE REPORT
EPA METHOD 3550 WITH GC/FID
ANAMETRIX, INC. (408) 432-8192

Sample I.D.	: LAB CONTROL SAMPLE	Anametrix I.D.	: MU21H1F1
Matrix	: SOIL	Analyst	: CMB
Date Sampled	: N/A	Supervisor	: CF
Date Extracted	: 06/21/93	Date Released	: 07/02/93
Date Analyzed	: 06/30/93	Instrument I.D.	: HP9

COMPOUND	SPIKE AMT (mg/Kg)	REC LCS (mg/Kg)	% REC LCS	% REC LIMITS
Diesel	125	96	77%	72-143

*Limits established by Anametrix, Inc.

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MS. JENIFER BEATTY
LEVINE-FRICKE
1900 POWELL STREET 12TH FLOOR
EMERYVILLE, CA 94608

Workorder # : 9306267
Date Received : 06/18/93
Project ID : 1649.14
Purchase Order: N/A
Department : PREP
Sub-Department: PREP

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9306267- 1	TB-1-10	SOIL	06/18/93	5520EF
9306267- 3	TB-2A-10	SOIL	06/18/93	5520EF

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MS. JENIFER BEATTY
LEVINE-FRICKE
1900 POWELL STREET 12TH FLOOR
EMERYVILLE, CA 94608

Workorder # : 9306267
Date Received : 06/18/93
Project ID : 1649.14
Purchase Order: N/A
Department : PREP
Sub-Department: PREP

QA/QC SUMMARY :

- No QA/QC problems encountered for these samples.

Department Supervisor — Date: 6/25/93

Chemist — Date: 06.28.93

ANALYSIS DATA SHEET - TOTAL RECOVERABLE PETROLEUM HYDROCARBONS AS OIL AND GREASE
ANAMETRIX LABORATORIES (408) 432-8192

Project # : 1649.14
Matrix : SOIL
Date sampled : 06/18/93
Date extracted: 06/21/93
Date analyzed : 06/22/93

Anametrix I.D. : 9306267
Analyst : MP
Supervisor : [illegible]
Date released : 06/25/93

Workorder #	Sample I.D.	Reporting Limit (mg/Kg)	Amount Found (mg/Kg)
9306267-01	TB-1-10	30	40
9306267-03	TB-2A-10	30	ND
BU21H1W9	METHOD BLANK	30	ND

ND - Not detected above the reporting limit for the method.
TRPH - Total Recoverable Petroleum Hydrocarbons are determined by Standard Method 5520EF, 18th edition.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

MATRIX SPIKE REPORT - TOTAL RECOVERABLE PETROLEUM HYDROCARBONS
AS OIL AND GREASE
ANAMETRIX LABORATORIES (408) 432-8192

Sample I.D. : 1649.14, TB-1-10
Matrix : SOIL
Date sampled : 06/18/93
Date extracted : 06/21/93
Date analyzed : 06/22/93

Anametrix I.D. : 9306267
Analyst : M.P.
Supervisor : [illegible]
Date Released : 06/25/93

COMPOUND	SPIKE AMT (mg/Kg)	SAMPLE CONC (mg/Kg)	MS AMT (mg/Kg)	%REC MS	MD AMT (mg/Kg)	%REC MD	%RPD	% REC LIMITS
Motor Oil	300	40	340	100%	350	103%	3%	48-114%

* Quality control limits established by Anametrix Laboratories.

TRPH - Total Recoverable Petroleum Hydrocarbons are determined by Standard Method 5520EF, 18th edition.

LAB CONTROL SAMPLE REPORT - TOTAL RECOVERABLE PETROLEUM HYDROCARBONS
AS OIL AND GREASE
ANAMETRIX LABORATORIES (408) 432-8192

Sample I.D.	: LAB CONTROL SAMPLE	Anametrix I.D.	: MU21H1W9
Matrix	: SOIL	Analyst	:
Date sampled	: N/A	Supervisor	:
Date extracted	: 06/21/93	Date Released	: 06/25/93
Date analyzed	: 06/22/93		

COMPOUND	SPIKE AMT. (mg/Kg)	LCS (mg/Kg)	%REC LCS	%REC LIMITS
Motor Oil	300	310	103%	68-113%

Quality control established by Anametrix Laboratories.

TRPH - Total Recoverable Petroleum Hydrocarbons are determined by Standard Method 5520EF.

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MS. JENIFER BEATTY
LEVINE-FRICKE
1900 POWELL STREET 12TH FLOOR
EMERYVILLE, CA 94608

Workorder # : 9306267
Date Received : 06/18/93
Project ID : 1649.14
Purchase Order: N/A
Department : METALS
Sub-Department: METALS

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9306267- 1	TB-1-10	SOIL	06/18/93	ORG Pb

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MS. JENIFER BEATTY
LEVINE-FRICKE
1900 POWELL STREET 12TH FLOOR
EMERYVILLE, CA 94608

Workorder # : 9306267
Date Received : 06/18/93
Project ID : 1649.14
Purchase Order: N/A
Department : METALS
Sub-Department: METALS

QA/QC SUMMARY :

- No QA/QC problems encountered for sample.

Department Supervisor 7-2-93 Date

Mona Kamel 7/02/93
Chemist Date

INORGANIC ANALYSIS DATA SHEET
ANAMETRIX, INC. (408) 432-8192

Analyte-Method: Org-Lead
Project I.D. : 1649.14
Matrix : SOIL
Reporting Unit: mg/Kg

Analyst : MK
Supervisor : MW
Date Sampled : 06/18/93
Date Released : 07/01/93
Instrument I.D. : AA1

ANAMETRIX SAMPLE I.D.	CLIENT I.D.	DATE PREPARED	DATE ANALYZED	REP. LIMIT	DIL. FACTOR	RESULT	Q
9306267-1	TB-1-10	06/25/93	06/29/93	0.30	1	ND	
MB0625S	METHOD BLANK	06/25/93	06/29/93	0.30	1	ND	

COMMENT:

MATRIX SPIKE REPORT
ANAMETRIX, INC. (408) 432-8192

Spike I.D. : 9306267-01MS,MD
Client I.D. : TB-1-10
Project I.D. : 1649.14
Matrix : SOIL
Reporting Unit: mg/Kg

Date Prepared : 06/25/93
Date Analyzed : 06/29/93
Analyst : MK
Supervisor : MN
Date Released : 07/01/93
Instrument I.D. : AA1

ANALYTE-METHOD	SPIKE AMOUNT	SAMPLE CONC.	M.S. CONC.	% REC.	M.S.D. CONC.	% REC.	RPD	Q
RG-Lead	2.00	0.0	2.4	120	2.4	120	0.0	

COMMENT:

LABORATORY CONTROL SAMPLE REPORT
ANAMETRIX, INC. (408) 432-8192

Anametrix W.O.# : 9306267
Spike I.D. : LCS0625S
Project I.D. : 1649.14
Matrix : SOIL
Reporting Unit : mg/Kg

Analyst : MK
Supervisor : MN
Date Released : 07/01/93
Instrument I.D : AA1

ANALYTE-METHOD	DATE PREPARED	DATE ANALYZED	SPIKE AMT.	METHOD SPIKE	% REC.	Q
ERG-Lead	06/25/93	06/29/93	2.0	2.4	120	

COMMENT:

g.D.

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.: 1649.14	Field Logbook No.:	Date: 6/18/93	Serial No.: 11652
Project Name: Y.B.-Peralta St.	Project Location: Emeryville		
Sampler (Signature): [signature]			Samplers: WEM

SAMPLES / ANALYSES

	SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CONTAINERS	SAMPLE TYPE	EPA 601	~~EPA 624~~	TPHg	BTEX	TPHd	O&G TRPH 5520 EF	Organic Lead 6010	HOLD	RUSH	REMARKS
D. (17)	TB-1-10	6/18/93	|	1	1	Soil			X	X	X	X				
(18)	TB-1-13.5	↓	|	2	↓	↓							X			Standard TAT
(19)	TB-2A-10	↓	|	3	↓	↓				X	X					

RELINQUISHED BY: (Signature) [signature]	DATE 6/18/93 TIME 4:00	RECEIVED BY: (Signature) [signature] NCM 132	DATE 6/18/93 TIME 4:05
RELINQUISHED BY: (Signature) [signature] - NCM 132	DATE 6/18/93 TIME 5:10	RECEIVED BY: (Signature) Josephine DeCarli	DATE 6/18/93 TIME 17:10
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED BY: (Signature)	DATE TIME
METHOD OF SHIPMENT:	DATE TIME	LAB COMMENTS:	

Sample Collector: LEVINE-FRICKE
1900 Powell Street, 12th Floor
Emeryville, Ca 94608
(415) 652-4500

Analytical Laboratory: Anametrix

Inchcape Testing Services
Anametrix Laboratories

1961 Concourse Drive
Suite E
San Jose, CA 95131
Tel: 408-432-8192
Fax: 408-432-8198

MS. JENIFER BEATTY
LEVINE-FRICKE
1900 POWELL STREET 12TH FLOOR
EMERYVILLE, CA 94608

Workorder # : 9309289
Date Received : 09/22/93
Project ID : 1649.14
Purchase Order: N/A

The following samples were received at Anametrix, Inc. for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9309289- 1	PIPE

This report consists of 12 pages not including the cover letter, and is organized in sections according to the specific Anametrix laboratory group or section which performed the analysis(es) and generated the data. The Report Summary that precedes each section will help you determine which Anametrix group is responsible for those test results, and will bear the signatures of the department supervisor and the chemist who have reviewed the analytical data. Please refer all questions to the department supervisor who signed the form.

Anametrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234. A detailed list of the approved fields of testing can be obtained by calling our office, or the DHS Environmental Laboratory Accreditation Program at (415)540-2800.

If you have any further questions or comments on this report, please give us a call as soon as possible. Thank you for using Anametrix.

Sarah Schoen,Ph.D.
Laboratory Director

09-24-93
Date

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MS. JENIFER BEATTY
LEVINE-FRICKE
1900 POWELL STREET 12TH FLOOR
EMERYVILLE, CA 94608

Workorder # : 9309289
Date Received : 09/22/93
Project ID : 1649.14
Purchase Order: N/A
Department : GC
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9309289- 1	PIPE	SOIL	09/22/93	BTEX
9309289- 1	PIPE	SOIL	09/22/93	TPHd

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MS. JENIFER BEATTY
LEVINE-FRICKE
1900 POWELL STREET 12TH FLOOR
EMERYVILLE, CA 94608

Workorder # : 9309289
Date Received : 09/22/93
Project ID : 1649.14
Purchase Order: N/A
Department : GC
Sub-Department: TPH

QA/QC SUMMARY :

- No QA/QC problems encountered for these samples.

Cheryl Baerner 9/24/93
Department Supervisor Date

Charlotte Burch 9.24.93
Chemist Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS
(GASOLINE WITH BTEX)
ANAMETRIX, INC. - (408) 432-8192

Anametrix W.O.: 9309289
Matrix : SOIL
Date Sampled : 09/22/93

Project Number : 1649.14
Date Released : 09/24/93

COMPOUNDS	Reporting Limit (mg/Kg)	Sample I.D.# PIPE -01	Sample I.D.# BS2301E2 BLANK
Benzene	0.005	ND	ND
Toluene	0.005	ND	ND
Ethylbenzene	0.005	ND	ND
Total Xylenes	0.005	ND	ND
TPH as Gasoline	0.5	ND	ND
% Surrogate Recovery		107%	108%
Instrument I.D.		HP4	HP4
Date Analyzed		09/23/93	09/23/93
RLMF		1	1

ND - Not detected at or above the practical quantitation limit for the method.
TPHg - Total Petroleum Hydrocarbons as C4-C12 are determined by GCFID using modified EPA Method 8015 following sample purge and trap by EPA Method 5030.
BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA Method 8020 following sample purge and trap by EPA Method 5030.
RLMF - Reporting Limit Multiplication Factor.

Anametrix control limits for surrogate p-Bromofluorobenzene recovery are 53-147%.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Charlotte Bench 9.24.93
Analyst Date

Cheryl Balmer 9/24/93
Supervisor Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS AS DIESEL
ANAMETRIX, INC. (408) 432-8192

Anametrix W.O.: 9309289
Matrix : SOIL
Date Sampled : 09/22/93
Date Extracted: 09/22/93

Project Number : 1649.14
Date Released : 09/24/93
Instrument I.D.: HP9

Anametrix I.D.	Client I.D.	Date Analyzed	Reporting Limit (mg/Kg)	Amount Found (mg/Kg)	Surrogate %Rec
9309289-01	PIPE	09/23/93	10	ND	74%
BS22H1F1	METHOD BLANK	09/22/93	10	ND	79%

Note : Reporting limit is obtained by multiplying the dilution factor times 10 mg/Kg.
The surrogate recovery limits for C25 are 30-130%.

ND - Not detected at or above the practical quantitation limit for the method.
TPHd - Total Petroleum Hydrocarbons as C12-C22 are determined by GCFID following sample extraction by EPA Method 3510.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Charlotte Burch 9.24.93
Analyst Date

Cheryl Balmer 9/24/93
Supervisor Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL
ANAMETRIX, INC. (408) 432-8192

Anametrix W.O.: 9309289
Matrix : SOIL
Date Sampled : 09/22/93
Date Extracted: 09/22/93

Project Number : 1649.14
Date Released : 09/24/93
Instrument I.D.: HP9

Anametrix I.D.	Client I.D.	Date Analyzed	Reporting Limit (mg/Kg)	Amount Found (mg/Kg)	Surrogate %Rec
9309289-01	PIPE	09/23/93	10	ND	74%
BS22H1F1	METHOD BLANK	09/22/93	10	ND	79%

Note : Reporting limit is obtained by multiplying the dilution factor times 10 mg/Kg.
The surrogate recovery limits for C25 are 30-130%.

ND - Not detected at or above the practical quantitation limit for the method.
TPHd - Total Petroleum Hydrocarbons as C22-C36 are determined by GCFID following sample extraction by EPA Method 3510.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Charlesetta Bruch 9.24.93
Analyst Date

Cheryl Balmer 9/24/93
Supervisor Date

TOTAL VOLATILE HYDROCARBON MATRIX SPIKE REPORT
EPA METHOD 5030 WITH GC/PID
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 1649.14 PIPE
Matrix : SOIL
Date Sampled : 09/22/93
Date Analyzed : 09/23/93

Anametrix I.D. : 09289-01
Analyst : CmB
Supervisor : as
Date Released : 09/24/93
Instrument I.D.: HP4

COMPOUND	SPIKE AMT (mg/Kg)	SAMPLE CONC (mg/Kg)	REC MS (mg/Kg)	% REC MS	REC MD (mg/Kg)	% REC MD	RPD	% REC LIMITS
BENZENE	0.040	0.000	0.039	98%	0.042	105%	7%	45-139
TOLUENE	0.040	0.000	0.041	102%	0.043	108%	5%	51-138
ETHYLBENZENE	0.040	0.000	0.041	102%	0.043	108%	5%	48-146
TOTAL XYLENES	0.040	0.000	0.040	100%	0.041	102%	2%	50-139
p-BFB				101%		97%		53-147

* Quality control limit established by Anametrix, Inc.

TOTAL VOLATILE HYDROCARBON LABORATORY CONTROL SAMPLE REPORT
EPA METHOD 5030 WITH GC/PID
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : LAB CONTROL SAMPLE
Matrix : SOIL
Date Sampled : N/A
Date Analyzed : 09/23/93

Anametrix I.D. : MS2301E3
Analyst : CMB
Supervisor : CA
Date Released : 09/24/93
Instrument ID : HP4

COMPOUND	SPIKE AMT (mg/Kg)	LCS (mg/Kg)	%REC LCS	%REC LIMITS
BENZENE	0.020	0.022	110%	52-133
TOLUENE	0.020	0.022	110%	57-136
ETHYLBENZENE	0.020	0.023	115%	56-139
TOTAL-XYLENES	0.020	0.022	110%	56-141
P-BFB			106%	53-147

* Quality control limit established by Anametrix, Inc.

TOTAL EXTRACTABLE HYDROCARBON LABORATORY CONTROL SAMPLE REPORT
EPA METHOD 3550 WITH GC/FID
ANAMETRIX, INC. (408) 432-8192

Sample I.D.	: LAB CONTROL SAMPLE	Anametrix I.D.	: MS22H1F1
Matrix	: SOIL	Analyst	: amb
Date Sampled	: N/A	Supervisor	:
Date Extracted	: 09/22/93	Date Released	: 09/24/93
Date Analyzed	: 09/22/93	Instrument I.D.	: HP9

COMPOUND	SPIKE AMT (mg/Kg)	REC LCS (mg/Kg)	% REC LCS	% REC LIMITS
DIESEL	125	90	72%	48-113
SURROGATE			79%	30-130

*Limits established by Anametrix, Inc.

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MS. JENIFER BEATTY
LEVINE-FRICKE
1900 POWELL STREET 12TH FLOOR
EMERYVILLE, CA 94608

Workorder # : 9309289
Date Received : 09/22/93
Project ID : 1649.14
Purchase Order: N/A
Department : PREP
Sub-Department: PREP

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9309289- 1	PIPE	SOIL	09/22/93	5520EF

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MS. JENIFER BEATTY
LEVINE-FRICKE
1900 POWELL STREET 12TH FLOOR
EMERYVILLE, CA 94608

Workorder # : 9309289
Date Received : 09/22/93
Project ID : 1649.14
Purchase Order: N/A
Department : PREP
Sub-Department: PREP

QA/QC SUMMARY :

- No QA/QC problems encountered for this sample.

Cathy Meltzberger 9/24/93
Department Supervisor Date

Chemist 9/24/93
Date

LAB CONTROL SAMPLE REPORT - TOTAL RECOVERABLE PETROLEUM HYDROCARBONS AS OIL AND GREASE
ANAMETRIX LABORATORIES (408) 432-8192

Sample I.D.	: LAB CONTROL SAMPLE	Anametrix I.D.	: MS22H1W9
Matrix	: SOIL	Analyst	: HE
Date sampled	: N/A	Supervisor	: CM
Date extracted	: 09/22/93	Date Released	: 09/24/93
Date analyzed	: 09/23/93		

COMPOUND	SPIKE AMT. (mg/Kg)	LCS (mg/Kg)	%REC LCS	%REC LIMITS
Motor Oil	300	240	80%	71-119%

* Quality control established by Anametrix Laboratories.

TRPH - Total Recoverable Petroleum Hydrocarbons are determined by Standard Method 5520EF.

9309289

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.: 1649.14	Field Logbook No.:	Date: 9/22/93	Serial No.: 11191
Project Name: Peralta Street	Project Location: Emeryville		
Sampler (Signature):			Samplers: WEM

SAMPLES						ANALYSES								
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CONTAINERS	SAMPLE TYPE	EPA 601	EPA 624	TPHd	TPHo	TRPH	BTEX	HOLD	RUSH	REMARKS
(1) PIPE	9/22/93	—		1	Soil			X	X	X	X		X	24-Hour TAT Results to Jenifer Beatty

RELINQUISHED BY: (Signature)	DATE 9/22/93	TIME 2:30	RECEIVED BY: (Signature)	DATE 9/22/93	TIME 14:30
RELINQUISHED BY: (Signature)	DATE 9/22/93	TIME 15:24	RECEIVED BY: (Signature)	DATE 9/22/93	TIME 15:24
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS:		

Sample Collector:
LEVINE-FRICKE
1900 Powell Street, 12th Floor
Emeryville, Ca 94608
(415) 652-4500

Analytical Laboratory:
Anametrix

Shipping Copy (White) Lab Copy (Green) File Copy (Yellow) File Copy (Pink) FORM NO. COC/ARF

Inchcape Testing Services
Anametrix Laboratories

1961 Concourse Drive
Suite E
San Jose, CA 95131
Tel: 408-432-8192
Fax: 408-432-8198

MS. JENIFER BEATTY
LEVINE-FRICKE
1900 POWELL STREET 12TH FLOOR
EMERYVILLE, CA 94608

Workorder # : 9309288
Date Received : 09/22/93
Project ID : 1649.14
Purchase Order: N/A

The following samples were received at Anametrix, Inc. for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9309288- 1	PILE
9309288- 2	BN-10.0
9309288- 3	BS-10.5
9309288- 4	SN-8.0
9309288- 5	SS-8.5

This report consists of 14 pages not including the cover letter, and is organized in sections according to the specific Anametrix laboratory group or section which performed the analysis(es) and generated the data. The Report Summary that precedes each section will help you determine which Anametrix group is responsible for those test results, and will bear the signatures of the department supervisor and the chemist who have reviewed the analytical data. Please refer all questions to the department supervisor who signed the form.

Anametrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234. A detailed list of the approved fields of testing can be obtained by calling our office, or the DHS Environmental Laboratory Accreditation Program at (415)540-2800.

If you have any further questions or comments on this report, please give us a call as soon as possible. Thank you for using Anametrix.

Corinne Ham for
Sarah Schoen, Ph.D.
Laboratory Director

09/28/93
Date

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MS. JENIFER BEATTY
LEVINE-FRICKE
1900 POWELL STREET 12TH FLOOR
EMERYVILLE, CA 94608

Workorder # : 9309288
Date Received : 09/22/93
Project ID : 1649.14
Purchase Order: N/A
Department : GC
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9309288- 1	PILE	SOIL	09/22/93	BTEX
9309288- 2	BN-10.0	SOIL	09/22/93	BTEX
9309288- 3	BS-10.5	SOIL	09/22/93	BTEX
9309288- 4	SN-8.0	SOIL	09/22/93	BTEX
9309288- 5	SS-8.5	SOIL	09/22/93	BTEX
9309288- 1	PILE	SOIL	09/22/93	TPHd
9309288- 2	BN-10.0	SOIL	09/22/93	TPHd
9309288- 3	BS-10.5	SOIL	09/22/93	TPHd
9309288- 4	SN-8.0	SOIL	09/22/93	TPHd
9309288- 5	SS-8.5	SOIL	09/22/93	TPHd

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MS. JENIFER BEATTY
LEVINE-FRICKE
1900 POWELL STREET 12TH FLOOR
EMERYVILLE, CA 94608

Workorder # : 9309288
Date Received : 09/22/93
Project ID : 1649.14
Purchase Order: N/A
Department : GC
Sub-Department: TPH

QA/QC SUMMARY :

- No QA/QC problems encountered for these samples.

Cheryl Balmer 9/28/93
Department Supervisor Date

Reggie Dawson 9/28/93
Chemist Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS
(BTEX)
ANAMETRIX, INC. - (408) 432-8192

Anametrix W.O.: 9309288
Matrix : SOIL
Date Sampled : 09/22/93

Project Number : 1649.14
Date Released : 09/28/93

	Reporting Limit	Sample I.D.# PILE	Sample I.D.# BN-10.0	Sample I.D.# BS-10.5	Sample I.D.# SN-8.0	Sample I.D.# SS-8.5
COMPOUNDS	(mg/Kg)	-01	-02	-03	-04	-05
Benzene	0.005	ND	ND	ND	ND	ND
Toluene	0.005	ND	ND	ND	ND	ND
Ethylbenzene	0.005	ND	ND	ND	ND	ND
Total Xylenes	0.005	ND	ND	ND	ND	ND
% Surrogate Recovery		109%	108%	108%	109%	108%
Instrument I.D.		HP4	HP4	HP4	HP4	HP4
Date Analyzed		09/23/93	09/23/93	09/23/93	09/23/93	09/23/93
RLMF		1	1	1	1	1

ND - Not detected at or above the practical quantitation limit for the method.
TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using modified EPA Method 8015 following sample purge and trap by EPA Method 5030.
BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA Method 8020 following sample purge and trap by EPA Method 5030.
RLMF - Reporting Limit Multiplication Factor.

Anametrix control limits for surrogate p-Bromofluorobenzene recovery are 53-147%.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Peggie Dawson 9/28/93
Analyst Date

Cheryl Bulman 9/28/93
Supervisor Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS
(BTEX)
ANAMETRIX, INC. - (408) 432-8192

Anametrix W.O.: 9309288
Matrix : SOIL
Date Sampled : N/A

Project Number : 1649.14
Date Released : 09/28/93

COMPOUNDS	Reporting Limit (mg/Kg)	Sample I.D.# BS2301E2 BLANK
Benzene	0.005	ND
Toluene	0.005	ND
Ethylbenzene	0.005	ND
Total Xylenes	0.005	ND
% Surrogate Recovery		108%
Instrument I.D.		HP4
Date Analyzed		09/23/93
RLMF		1

ND - Not detected at or above the practical quantitation limit for the method.
TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using modified EPA Method 8015 following sample purge and trap by EPA Method 5030.
BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA Method 8020 following sample purge and trap by EPA Method 5030.
RLMF - Reporting Limit Multiplication Factor.

Anametrix control limits for surrogate p-Bromofluorobenzene recovery are 53-147%.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Reggie Dawson 9/28/93
Analyst Date

Cheryl Balmer 9/28/93
Supervisor Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS AS DIESEL
ANAMETRIX, INC. (408) 432-8192

Anametrix W.O.: 9309288
Matrix : SOIL
Date Sampled : 09/22/93
Date Extracted: 09/22/93

Project Number : 1649.14
Date Released : 09/28/93
Instrument I.D.: HP9

Anametrix I.D.	Client I.D.	Date Analyzed	Reporting Limit (mg/Kg)	Amount Found (mg/Kg)	Surrogate %Rec
9309288-01	PILE	09/27/93	10	17	71%
9309288-02	BN-10.0	09/27/93	10	ND	73%
9309288-03	BS-10.5	09/27/93	10	ND	76%
9309288-04	SN-8.0	09/23/93	10	ND	76%
9309288-05	SS-8.5	09/23/93	10	ND	79%
BS22H1F1	METHOD BLANK	09/22/93	10	ND	79%

Note : Reporting limit is obtained by multiplying the dilution factor times 10 mg/Kg.
The surrogate recovery limits for C25 are 30-130%.

ND - Not detected at or above the practical quantitation limit for the method.
TPHd - Total Petroleum Hydrocarbons as C12-C22 is determined by GCFID following sample extraction by EPA Method 3510.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Reggie Dawson 9/28/93
Analyst Date

Cheryl Balmer 9/28/93
Supervisor Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL
ANAMETRIX, INC. (408) 432-8192

Anametrix W.O.: 9309288
Matrix : SOIL
Date Sampled : 09/22/93
Date Extracted: 09/22/93

Project Number : 1649.14
Date Released : 09/28/93
Instrument I.D.: HP9

Anametrix I.D.	Client I.D.	Date Analyzed	Reporting Limit (mg/Kg)	Amount Found (mg/Kg)	Surrogate %Rec
9309288-01	PILE	09/27/93	10	ND	71%
9309288-02	BN-10.0	09/27/93	10	ND	73%
9309288-03	BS-10.5	09/27/93	10	ND	76%
9309288-04	SN-8.0	09/23/93	10	ND	76%
9309288-05	SS-8.5	09/23/93	10	ND	79%
BS22H1F1	METHOD BLANK	09/22/93	10	ND	79%

Note : Reporting limit is obtained by multiplying the dilution factor times 10 mg/Kg.
The surrogate recovery limits for C25 are 30-130%.

ND - Not detected at or above the practical quantitation limit for the method.

TPHd - Total Petroleum Hydrocarbons as C22-C36 is determined by GCFID following sample extraction by EPA Method 3510.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Reggie Dawson 9/28/93
Analyst Date

Cheryl Balmer 9/28/93
Supervisor Date

TOTAL EXTRACTABLE HYDROCARBON MATRIX SPIKE REPORT
EPA METHOD 3550 WITH GC/FID
ANAMETRIX, INC. (408) 432-8192

Sample I.D.	: 1649.14 SN-8.0	Anametrix I.D.	: 09288-04
Matrix	: SOIL	Analyst	: RD
Date Sampled	: 09/22/93	Supervisor	: CB
Date Extracted	: 09/22/93	Date Released	: 09/28/93
Date Analyzed	: 09/23/93	Instrument I.D.	: HP9

COMPOUND	SPIKE AMT (mg/Kg)	SAMPLE CONC (mg/Kg)	REC MS (mg/Kg)	% REC MS	REC MD (mg/Kg)	% REC MD	RPD	% REC LIMITS
DIESEL	125	0	106	85%	105	84%	-1%	32-143
SURROGATE				78%		76%		30-130

* Quality control limit established by Anametrix, Inc.

TOTAL VOLATILE HYDROCARBON LABORATORY CONTROL SAMPLE REPORT
EPA METHOD 5030 WITH GC/PID
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : LAB CONTROL SAMPLE
Matrix : SOIL
Date Sampled : N/A
Date Analyzed : 09/23/93

Anametrix I.D. : MS2301E3
Analyst : RD
Supervisor : [illegible]
Date Released : 09/28/93
Instrument ID : HP4

COMPOUND	SPIKE AMT (mg/Kg)	LCS (mg/Kg)	%REC LCS	%REC LIMITS
BENZENE	0.020	0.022	110%	52-133
TOLUENE	0.020	0.022	110%	57-136
ETHYLBENZENE	0.020	0.023	115%	56-139
TOTAL-XYLENES	0.020	0.022	110%	56-141
P-BFB			106%	53-147

* Quality control limit established by Anametrix, Inc.

TOTAL EXTRACTABLE HYDROCARBON LABORATORY CONTROL SAMPLE REPORT
EPA METHOD 3550 WITH GC/FID
ANAMETRIX, INC. (408) 432-8192

Sample I.D.	: LAB CONTROL SAMPLE	Anametrix I.D.	: MS22H1F1
Matrix	: SOIL	Analyst	: RD
Date Sampled	: N/A	Supervisor	: cs
Date Extracted	: 09/22/93	Date Released	: 09/24/93
Date Analyzed	: 09/22/93	Instrument I.D.	: HP9

COMPOUND	SPIKE AMT (mg/Kg)	REC LCS (mg/Kg)	% REC LCS	% REC LIMITS
DIESEL	125	90	72%	48-113
SURROGATE			79%	30-130

*Limits established by Anametrix, Inc.

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MS. JENIFER BEATTY
LEVINE-FRICKE
1900 POWELL STREET 12TH FLOOR
EMERYVILLE, CA 94608

Workorder # : 9309288
Date Received : 09/22/93
Project ID : 1649.14
Purchase Order: N/A
Department : PREP
Sub-Department: PREP

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9309288- 1	PILE	SOIL	09/22/93	5520EF
9309288- 2	BN-10.0	SOIL	09/22/93	5520EF
9309288- 3	BS-10.5	SOIL	09/22/93	5520EF
9309288- 4	SN-8.0	SOIL	09/22/93	5520EF
9309288- 5	SS-8.5	SOIL	09/22/93	5520EF

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MS. JENIFER BEATTY
LEVINE-FRICKE
1900 POWELL STREET 12TH FLOOR
EMERYVILLE, CA 94608

Workorder # : 9309288
Date Received : 09/22/93
Project ID : 1649.14
Purchase Order: N/A
Department : PREP
Sub-Department: PREP

QA/QC SUMMARY :

-No QA/QC problems encountered for these samples.

Department Supervisor Date 9/24/93

Chemist Date 9/24/93

ANALYSIS DATA SHEET - TOTAL RECOVERABLE PETROLEUM HYDROCARBONS
AS OIL AND GREASE
ANAMETRIX LABORATORIES (408) 432-8192

Project # : 1649.14
Matrix : SOIL
Date sampled : 09/22/93
Date extracted: 09/22/93
Date analyzed : 09/23/93

Anametrix I.D. : 9309288
Analyst : HE
Supervisor : CM
Date released : 09/24/93

Workorder #	Sample I.D.	Reporting Limit (mg/Kg)	Amount Found (mg/Kg)
9309288-01	PILE	30	93
9309288-02	BN-10.0	30	120
9309288-03	BS-10.5	30	37
9309288-04	SN-8.0	30	33
9309288-05	SS-8.5	30	ND
BS22H1W9	METHOD BLANK	30	ND

ND - Not detected above the reporting limit for the method.
TPH - Total Recoverable Petroleum Hydrocarbons are determined by Standard Method 5520EF, 18th edition.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

MATRIX SPIKE REPORT - TOTAL RECOVERABLE PETROLEUM HYDROCARBONS
AS OIL AND GREASE
ANAMETRIX LABORATORIES (408) 432-8192

Sample I.D.	: 1649.14, SN-8.0MS, MD	Anametrix I.D.	: 9309288-04
Matrix	: SOIL	Analyst	: HE
Date sampled	: 09/22/93	Supervisor	: CW
Date extracted	: 09/22/93	Date Released	: 09/24/93
Date analyzed	: 09/23/93		

COMPOUND	SPIKE AMT (mg/Kg)	SAMPLE CONC (mg/Kg)	MS AMT (mg/Kg)	%REC MS	MD AMT (mg/Kg)	%REC MD	%RPD	% REC LIMITS
Motor Oil	300	33	240	69%	270	79%	14%	48-114%

* Quality control limits established by Anametrix Laboratories.

TRPH - Total Recoverable Petroleum Hydrocarbons are determined by Standard Method 5520EF, 18th edition.

LAB CONTROL SAMPLE REPORT - TOTAL RECOVERABLE PETROLEUM HYDROCARBONS AS OIL AND GREASE
ANAMETRIX LABORATORIES (408) 432-8192

Sample I.D.	: LAB CONTROL SAMPLE	Anametrix I.D.	: MS22H1W9
Matrix	: SOIL	Analyst	:
Date sampled	: N/A	Supervisor	:
Date extracted	: 09/22/93	Date Released	: 09/24/93
Date analyzed	: 09/23/93		

COMPOUND	SPIKE AMT. (mg/Kg)	LCS (mg/Kg)	%REC LCS	%REC LIMITS
Motor Oil	300	240	80%	71-119%

Quality control established by Anametrix Laboratories.

TRPH - Total Recoverable Petroleum Hydrocarbons are determined by Standard Method 5520EF.

APPENDIX C

HAZARDOUS WASTE MANIFEST

[redacted]e of California—Environmental Protection Agency
[redacted]m Approved OMB No. 2050–0039 (Expires 9-30-94)
[redacted]se print or type. Form designed for use on elite (12-pitch) typewriter.

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
CAD983585746	02486	1 of 1	

3. Generator's Name and Mailing Address
CATellus Development corp
201 Mission ST, 30th FL
San Francisco CA. 94105

4. Generator's Phone (415) 974 4500

A. State Manifest Document Number 92202486

B. State Generator's ID

5. Transporter 1 Company Name: ERicKSON INC

6. US EPA ID Number: CAD009466392

C. State Transporter's ID 402970

D. Transporter's Phone 510-235-1393

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Erickson, Inc.
255 Parr Blvd.
Richmond, Ca. 94801

10. US EPA ID Number: CAD009466392

G. State Facility's ID

H. Facility's Phone (510) 235-1393

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. Waste Empty Storage Tank NON-RCRA Hazardous Waste Solid.	001	TP	1500	P	State 512 EPA/Other NONE
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
a. [illegible] Waste Empty Storage Tank [illegible] Dry Ice Per 1000 Gallon capacity [illegible]

K. Handling Codes for Wastes Listed Above
a. b. c. d.

15. Special Handling Instructions and Additional Information

Keep away from sources of ignition. Always wear hardhats when working around U.G.S.T.'s 24 Hr. Contact Name Gary Trumpp & Phone (408) 292-0820

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable federal, state and international laws.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Month	Day	Year
William Madison	[signature] Agent for Catellus	09	22	93

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Michael Davenport	[signature]	09	22	93

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR / TRANSPORTER / FACILITY

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-80[redacted]880 [redacted] WITHIN CALIFORNIA, CALL 1-800-[redacted]550

3CCU6400

DO NOT WRITE BELOW THIS LINE.

Blue: GENERATOR SENDS THIS COPY TO DTSC WITHIN 30 DAYS.
To: P.O. Box 400, Sacramento, CA 95812-0400

DTSC 8022A (12/91)
EPA 8700—22