

**SUMMARY REPORT
TANK REMOVAL AND SOIL EXCAVATION
CITY OF EMERYVILLE FIRE STATION
4331 SAN PABLO AVENUE
EMERYVILLE, CALIFORNIA**

August 17, 1994

Prepared for:

Mr. Juan Arreguin
City of Emeryville Department of Public Works
2200 Powell Street
Twelfth Floor
Emeryville, CA 94608

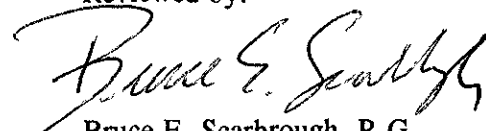
Prepared by:

SEACOR
90 New Montgomery Street
Suite 620
San Francisco, California 94105-4503

Prepared by:

Sandra E. Bruni
Project Geologist

Reviewed by:


Bruce E. Scarbrough, R.G.
Principal Geologist

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HAZMAT

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PROFESSIONAL REVIEW

This report has been prepared by *SEACOR* under the professional supervision of the Principal(s) and/or staff whose seal(s) and signature(s) appear hereon.

The findings, interpretations, recommendations, specifications or professional opinions are presented, within the limits prescribed by the client, in accordance with generally accepted professional geologic and engineering practices. There is no other warranty either expressed or implied.

Prepared by:

Reviewed by:

Sandra E. Bruni
Project Geologist

Bruce E. Scarbrough, R.G.
Principal Geologist

1.0 INTRODUCTION

This report describes the removal of one ⁵⁸⁰~~1,000~~-gallon underground storage tank (UST) and soil excavation activities conducted by Science & Engineering Analysis Corporation (SEACOR) at the former City of Emeryville (CE) Fire Station located at 4331 San Pablo Avenue in Emeryville, California (the Site.) The UST removal and soil excavation activities were performed on behalf of CE in accordance with the "Tri-Regional Board Staff Recommendations for Preliminary Evaluation And Investigation of Underground Tank Sites document", dated August 10, 1990, and the Alameda County Department of Environmental Health (ACDEH) guidelines.

The services provided by SEACOR included:

- Oversight and documentation for the removal of one UST and associated fuel dispenser pump and pipeline;
- Excavation of UST backfill soil; and,
- Preparation of this Summary Report describing Site activities.

1.1 SITE LOCATION AND DESCRIPTION

The Site is located in a mixed residential and light commercial area in the northwest portion of the City of Emeryville and in the northwest portion of Alameda County, California (Figure 1). The Site is bounded to the east by San Pablo Avenue (Figure 2).

The Site consists of two single story buildings, one concrete-lined sump, one satellite dish tower, and adjacent parking areas for automobiles. The Site is asphalt-covered with the exception of an approximate 36-foot (ft.) by 23-ft. concrete pad located adjacent to the east of the main building. The former UST was located in the southeast portion of the Site.

2.0 SCOPE OF WORK

July 20
SEACOR supervised and documented the removal of one 1,000-gallon UST, associated equipment, and underground piping from the Site on July 26, 1994. SEACOR collected three soil samples during UST removal activities for chemical analyses. The chemical analytical program and soil analytical results are included in Section 3.0 of this report.

The following sections describe the UST removal and associated activities.

2.1 UTILITY CLEARANCE, HEALTH AND SAFETY PLAN, AND PERMITTING

Prior to invasive activities, SEACOR prepared a site-specific Health and Safety Plan for UST removal activities as required by Code of Federal Regulations (CFR) 1910.120. CE obtained UST removal permits from the ACDEH (Appendix A). CE also located the UST and associated piping, and utilities in the area of excavation.

2.2 UNDERGROUND STORAGE TANK REMOVAL

July 20
On July 26, 1994, a representative from SEACOR met with representatives from Red Horse Contractors (RHC) at the Site to perform UST removal activities. RHC checked the UST and associated piping for residual liquids, but did not detect any. RHC detached the fuel dispenser and removed the asphalt overlying the UST. The backfill surrounding the UST was subsequently removed by RHC and placed on Visqueen™. Petroleum odor was encountered during excavation of the UST and associated piping backfill at approximately one ft. below ground surface (bgs). Prior to removing the UST from the ground, Mr. Brian Oliva, ACDEH Hazardous Materials Inspector and a representative from the City of Emeryville Fire Marshall, observed the monitoring of the lower explosive limit (LEL) within the UST to verify flammable vapors had been adequately purged. Dry ice was placed in the UST to ensure the dispersal of any flammable vapors, and the LEL was monitored a second time.

The UST was lifted from the excavation by a tractor excavator and placed on a flat-bed truck for transport to a disposal facility. Before leaving the site, the UST was inspected and cleaned to assure that no contamination or waste materials were transported off-site. The inspection revealed that the UST was in good condition and did not contain any holes or corrosion upon removal. The UST was transported under manifest to H and H Ship Service in San Francisco, California. A copy of the Hazardous Waste Manifest for the UST is included in Appendix B.

2.3 SOIL EXCAVATION AND SAMPLING

Due to the presence of petroleum hydrocarbon odors in the backfill material, the excavation was extended into native soil at approximately 8.5 ft. bgs. Approximately 20 cubic yards (yd³) of soil was excavated from the area of the former UST, associated piping, and dispenser pump and stockpiled at the Site on Visqueen™.

Soil sample collection locations and methods were authorized by Mr. Brian Oliva, ACDEH. One soil sample (S-1) was collected from native soil beneath the fill end of the UST at an approximate depth of 8.5 ft. bgs. One soil sample (S-2) was collected from approximately 1.0 ft. bgs at the former fuel dispenser pump location. A soil stockpile sample (SP-1) was collected by compositing soil from four random locations within the soil stockpile. The soil samples were collected in accordance with "Tri-

Regional Board Staff Recommendations for Preliminary Evaluation And Investigation of Underground Tank Sites", dated August 10, 1990 (Tri-Regional). The soil sampling locations are shown on Figure 2.

The encountered soil types consisted of silty clay and silty sand to a depth of 8.5-ft. bgs, the maximum depth explored. The soils encountered from the ground surface to a depth of approximately one ft. were composed of asphaltic-concrete cap (AC cap) and road base. Underlying the AC cap is black, silty clay which extends to an approximate depth of 4.5 ft. bgs. Medium-grained silty sand was encountered from approximately 4.5 ft. to 8.5 ft. bgs. Groundwater was not encountered during excavation.

Soil samples were collected from the excavation by scooping soil from the desired sample location with a backhoe and driving brass sample tubes into the soil in the excavator bucket. The sample tubes were then capped with Teflon™ and plastic end caps, sealed with Teflon™ tape, labeled, and placed in a cooler containing dry ice. Soil samples were transported to Superior Analytical Laboratory (Superior) in San Francisco, California accompanied by completed chain-of-custody records.

Soil samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg) and diesel (TPHd) by U.S. Environmental Protection Agency (EPA) Method 8015, modified and benzene, toluene, ethylbenzene, and total xylenes (BTEX compounds) by EPA Method 8020. Soil analytical results are presented in Section 3.0.

3.0 ANALYTICAL RESULTS

3.1 SOIL ANALYSES RESULTS

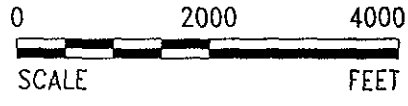
Results of laboratory analyses of soil samples collected in association with the removal of the UST indicated detectable concentrations of TPHd, TPHg, and BTEX. TPHd was detected in soil samples S-1, S-2, and SP-1 at concentrations of 86 parts per million (ppm), 4,800 ppm, and 3,000 ppm, respectively. TPHg was detected in soil samples S-1, S-2, and SP-1 at concentrations of 1 ppm, 18 ppm, and 430 ppm, respectively. BTEX concentrations in the three soil samples ranged from below the detection limit to 11 ppm. Soil sample locations and designations are presented on Figure 2. Laboratory analytical reports and completed chain-of-custody records are presented in Appendix C.

4.0 CONCLUSIONS

Analytical results for a soil sample collected from beneath the UST showed the presence of low concentrations (less than 100 ppm) of TPHd and TPHg. Higher concentrations of TPHg and TPHg were reported in the soil sample collected from beneath the former fuel dispenser. Additional soil excavation beneath the former fuel dispenser pump and excavation sidewall soil sampling was performed under the direction of Mr. Brian Oliva, ACDEH on August 16, 1994. The results of this additional sampling will be forwarded to the ACDEH by September 6, 1994.



SOURCE: BASE MAP FROM U.S.G.S. OAKLAND, WEST CA QUADRANGLE. 7.5 MINUTE SERIES TOPOGRAPHIC, PHOTOREVISED 1980.

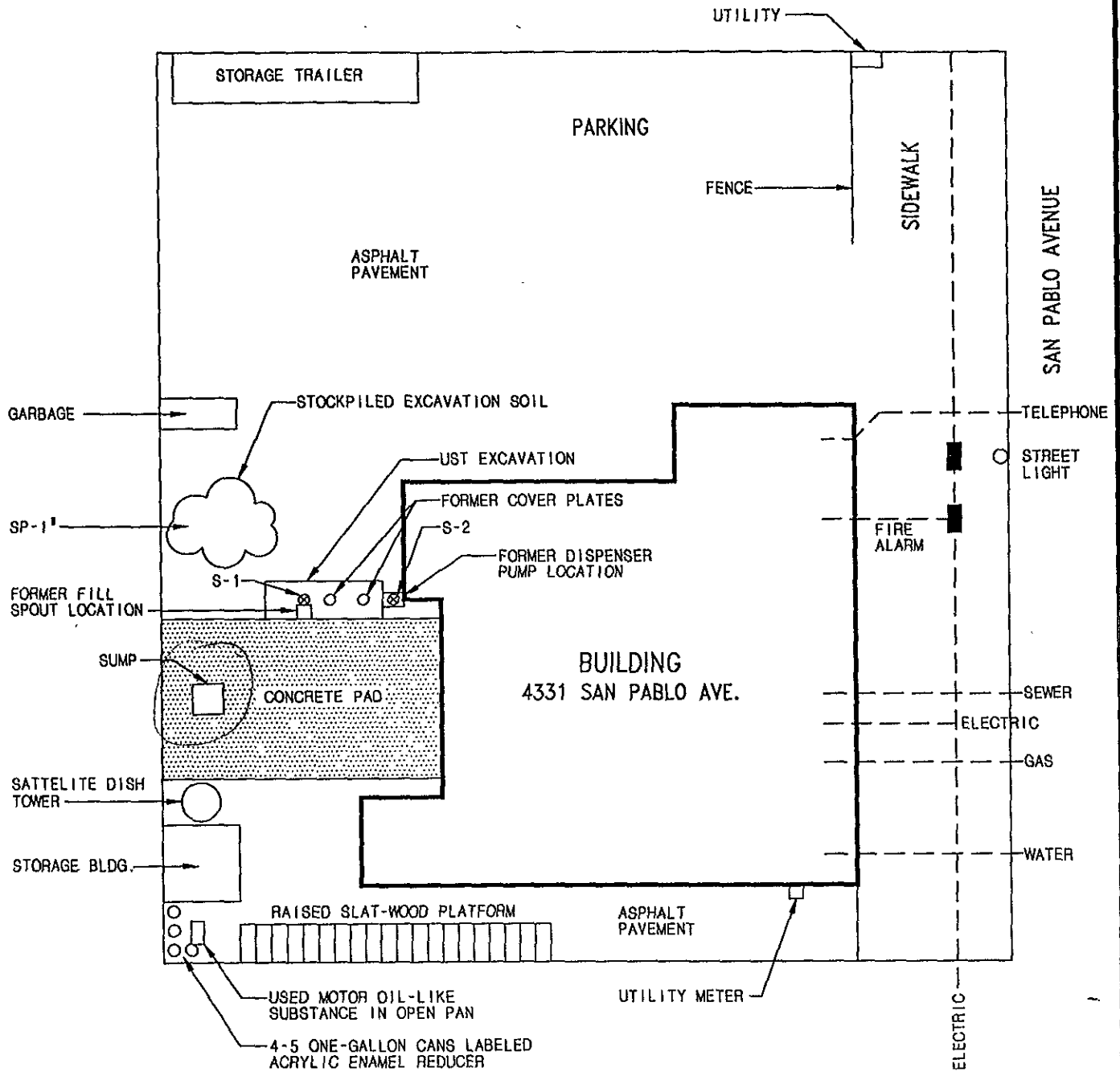


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SEACOR
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ENGINEERING

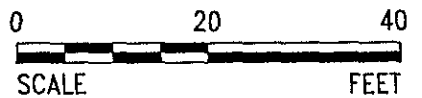
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APPR	SB
DATE	04AUG94
JOB NO.	50100-003-01

FIGURE 1
CITY OF EMERYVILLE
4331 SAN PABLO AVENUE
EMERYVILLE, CALIFORNIA
SITE LOCATION MAP



LEGEND:

▪ COMPOSITE SAMPLE



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SEACOR
ENVIRONMENTAL
ENGINEERING

DRAWN	CCR
APPR	SB
DATE	17AUG94
JOB NO.	50100-003-01

FIGURE 2
CITY OF EMERYVILLE
4331 SAN PABLO AVENUE
EMERYVILLE, CALIFORNIA

SITE PLAN

APPENDIX A
PERMITS

DEPARTMENT OF ENVIRONMENTAL HEALTH
 HAZARDOUS MATERIALS DIVISION
 80 SWAN WAY, ROOM 200
 OAKLAND, CA 94621

RECEIVED

16 1994

ACCEPTED

Underground Storage Tank Closure Permit Application
 Alameda County Division of Hazardous Materials
 2000 Broadway, Suite 200, Oakland, CA 94612

These closure/feasibility plans must be approved and found to comply with the requirements of State and local laws. The plans must include details of any required remediation and job and availability of the removal. The plans must include details of any required remediation and job and availability of the removal. The plans must include details of any required remediation and job and availability of the removal.

One copy of the plans must be submitted to the following:

- City of Emeryville
- City of Alameda
- City of Berkeley
- City of Fremont
- City of Hayward
- City of San Francisco
- City of San Jose
- City of San Mateo
- City of Santa Clara
- City of Santa Cruz
- City of Stanislaus
- City of Tehama
- City of Trinity
- City of Yuba

and Piping

Insurances of all tanks are dependent on applicable laws and regulations.

FOR INFORMATION

Special requirements:
 ① Health & Safety Plan must adhere to 26 CFR 1910-120 or to title 266
 ② See Corrections on page 4

UNDERGROUND TANK CLOSURE PLAN

*** Complete according to attached instructions ***

- Business Name FIRE STATION
 Business Owner City of Emeryville
- Site Address 4331 San Pablo Avenue
 city Emeryville Zip _____ Phone NA
- Mailing Address 2200 Powell Street, 12th Floor
 city Emeryville Zip 94608 Phone (510)596-4333
- Land Owner City of Emeryville
 Address 2200 Powell St. city, state Emeryville, CA zip 94608
- Generator name under which tank will be manifested CITY OF EMERYVILLE
- EPA I.D. No. under which tank will be manifested CAL000-71920

6. Contractor Red Horse Constructors, Inc.
Address 3060 Kerner Blvd., Suite A
City San Rafael, CA. 94901 Phone (415) 457.8506
License Type* A-Haz. ID# 555399

*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 Science & Engineering Analysis, Corp.
Address 90 New Montgomery Street #620
City San Francisco Phone (415) 882.1548

8. Contact Person for Investigation
Name SANDRA BRUNI Title PROJECT GEOLOGIST
Phone (415) 882.1548

9. Number of tanks being closed under this plan one
Length of piping being removed under this plan 15 feet.
Total number of tanks at facility one

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 Shipyard EPA I.D. No. CAD009271168
Hauler License No. 0334 License Exp. Date 4.30.95
Address 220 China Basin Street
City San Francisco State CA Zip 94107

b) Product/Residual Sludge/Rinsate Disposal Site

Name PRC-Patterson EPA I.D. No. CAD083116672
Address 13331 N. Hwy. 33
City Patterson State CA Zip 95363

c) Tank and Piping Transporter

Name H & H Shipyard EPA I.D. No. CAD004771168
Hauler License No. 0334- License Exp. Date 4.30.95
Address 220 China Basin Street
City San Francisco State CA Zip 94107

d) Tank and Piping Disposal Site

Name H & H Shipyard EPA I.D. No. CAD004771168
Address 220 China Basin Street
City San Francisco State CA Zip 94107

11. Experienced Sample Collector

Name SANDRA E. BRUNI
Company Science & Engineering Analysis, Corporation
Address 90 New Montgomery Street, Suite 620
City San Francisco State CA Zip 94105 Phone (415) 882-1548

12. Laboratory

Name Superior Precision Analytical, Inc.
Address 1555 Burke, Unit 1
City San Francisco State CA Zip 94124
State Certification No. 1332

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

Pack with dry ice.

Note use of least 30 pounds CO₂ / 1000 gal - tank size

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)		
550-gal.	diesel fuel storage.	soil and groundwater if encountered.	beneath tank & beneath product piping at a maximum of two feet below the native soil/backfill 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) 20 yds ³	Sampling Plan STOCKPILED SOIL WILL BE SAMPLED ACCORDING TO TRI-REGIONAL BOARD STAFF RECOMMENDATIONS PENDING ANALYTICAL RESULTS OF INITIAL SOIL SAMPLES FROM EXCAVATION BASE & PRODUCT PIPING AREA OR IF VISIBLE CONTAMINATION IS OBSERVED.

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
TPHd	EPA Method 3550	EPA Method 8015M	1 ppm
BTEX	EPA Method 5030	EPA Method 8020	0.005 ppm

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

18. Submit Worker's Compensation Certificate copy
 Name of Insurer ROLLINS HUDIG HALL OF NORTHERN CALIFORNIA, INC.
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.

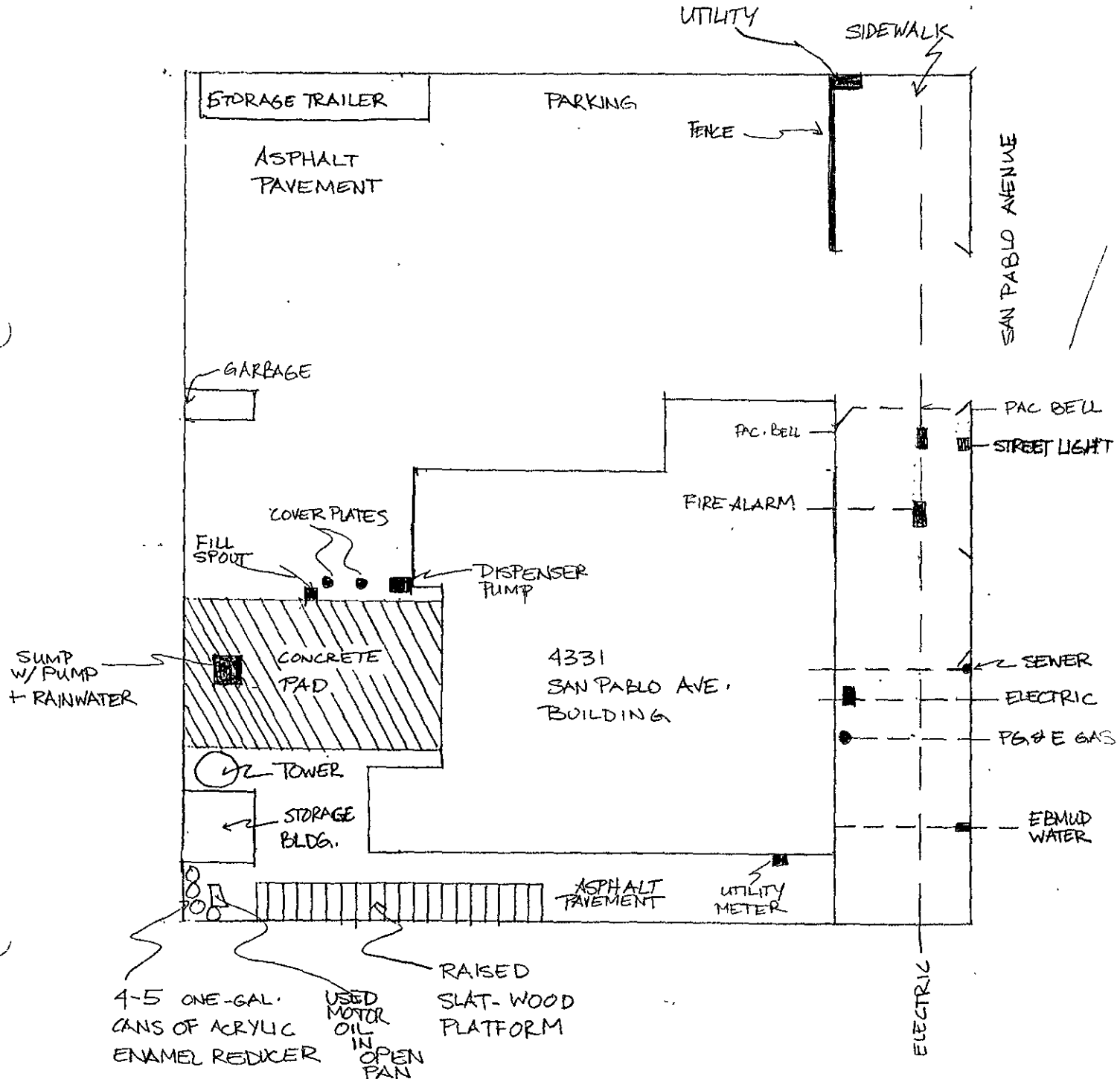
I understand that all work performed during this project will be done in compliance with all applicable OSHA (Occupational Safety and Health Administration) requirements concerning personnel health and safety. I understand that site and worker safety are solely the responsibility of the property owner 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) Redhorse Constructors Inc. - Mark Warner
 Signature Mark Warner
 Date 5-24-94

Signature of Site Owner or Operator
 Name (please type) Juan C. Arreguin
 Signature Juan C. Arreguin
 Date 6/24/94

JOB NAME CITY OF EMERYVILLE
JOB NO. 50000-003-01
CALCULATED BY AB DATE 5/94
CHECKED BY _____ DATE _____
SHEET 1 OF 1
SCALE: 1" = 20'





Rollins Hudig Hall of Northern California, Inc.
Insurance Services
One Market, Spear Tower, Suite 2100
San Francisco, CA 94105
Telephone 415 543-9360 Fax 415 543-5628

DATE: June 16, 1994

TELECOPIER MESSAGE COVER SHEET

TOTAL NUMBER OF PAGES (INCLUDING THIS PAGE): 2

PLEASE CALL (415) 512-6176 IF YOU DO NOT RECEIVE ALL PAGES.

TO: FAX NUMBER: 882-4406
FIRM NAME: Seacor

ATTENTION:

FROM: Sharla Rodriguez
Senior Account Administrator

RE: Certificate of Insurance
INSURED: Redhorse Constructors

MESSAGE:

Please find attached your FAX copy of the certificate of insurance you requested. The hard copy will be in today's mail. If you should need any kind of revisions let me know.

If you should have any questions, please contact our office.

Sincerely,

A handwritten signature in cursive script that reads 'Sharla Rodriguez'.

Sharla Rodriguez
Senior Account Administrator

ACORD CERTIFICATE OF INSURANCE ISSUE DATE (MM/DD/YY) 6/16/94

PRODUCER
 RHM of Northern California
 One Market
 Spear Street Tower Ste. 2100
 San Francisco, CA 94105
 415-543-9360

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

COMPANIES AFFORDING COVERAGE	
COMPANY LETTER A	Republic Indemnity Co of Amer
COMPANY LETTER B	
COMPANY LETTER C	
COMPANY LETTER D	
COMPANY LETTER E	

INSURED
 Mary Melrow
 c/o Redhorse Constructors Inc.
 3060 Kerner Boulevard #A
 San Rafael
 CA 94901

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 <input type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS MADE <input type="checkbox"/> OCCUR. <input type="checkbox"/> OWNER'S & CONTRACTOR'S PROT.				GENERAL AGGREGATE \$ PRODUCTS-COMP/OP AGG. \$ PERSONAL & ADV. INJURY \$ EACH OCCURRENCE \$ FIRE DAMAGE (Any one fire) \$ MED. EXPENSE (Any one person) \$
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS <input type="checkbox"/> GARAGE LIABILITY				COMBINED SINGLE LIMIT \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE \$
	EXCESS LIABILITY <input type="checkbox"/> UMBRELLA FORM <input type="checkbox"/> OTHER THAN UMBRELLA FORM				EACH OCCURRENCE \$ AGGREGATE \$
A	WORKER'S COMPENSATION AND EMPLOYERS' LIABILITY	PC995767	8/01/93	8/01/94	STATUTORY LIMITS EACH ACCIDENT \$ 1000000 DISEASE-POLICY LIMIT \$ 1000000 DISEASE-EACH EMPLOYEE \$ 1000000
	OTHER				

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS
 RE: All Operations

CERTIFICATE HOLDER
 Seacor
 90 New Montgomery Street
 Suite 620
 San Francisco, CA 94105

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
Philip J. Beckman 001743000

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



COMPLETE THIS FORM FOR EACH FACILITY/SITE

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

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

DBA OR FACILITY NAME CITY OF EMERYVILLE		NAME OF OPERATOR CITY OF EMERYVILLE		
ADDRESS 4331 SAN PABLO AVENUE		NEAREST CROSS STREET 43rd STREET	PARCEL # (OPTIONAL) 49-1178-15-3	
CITY NAME EMERYVILLE		STATE CA	ZIP CODE 94608	SITE PHONE # WITH AREA CODE (510) 596-4333
<input checked="" type="checkbox"/> BOX TO INDICATE <input type="checkbox"/> CORPORATION <input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> PARTNERSHIP <input checked="" type="checkbox"/> LOCAL-AGENCY DISTRICTS*		<input type="checkbox"/> COUNTY-AGENCY* <input type="checkbox"/> STATE-AGENCY* <input type="checkbox"/> FEDERAL-AGENCY*		
* If owner of UST is a public agency, complete the following: name of Supervisor of division, section, or office which operates the UST JUAN C. ARREGUIN, D.P.W.				
TYPE OF BUSINESS <input type="checkbox"/> 1 GAS STATION <input type="checkbox"/> 2 DISTRIBUTOR <input type="checkbox"/> 3 FARM <input type="checkbox"/> 4 PROCESSOR <input checked="" type="checkbox"/> 5 OTHER		<input type="checkbox"/> IF INDIAN RESERVATION OR TRUST LANDS	# OF TANKS AT SITE 1	E.P.A. I.D. # (optional) CA0000-71920 TK1044-000436e

EMERGENCY CONTACT PERSON (PRIMARY)

EMERGENCY CONTACT PERSON (SECONDARY) - optional

DAYS: NAME (LAST, FIRST) ARREGUIN, JUAN CARLOS		PHONE # WITH AREA CODE (510) 596-4333	
NIGHTS: NAME (LAST, FIRST) SAME		PHONE # WITH AREA CODE	

II. PROPERTY OWNER INFORMATION - (MUST BE COMPLETED)

NAME CITY OF EMERYVILLE		CARE OF ADDRESS INFORMATION		
MAILING OR STREET ADDRESS 2200 POWELL STREET		<input checked="" type="checkbox"/> box to indicate <input type="checkbox"/> CORPORATION <input type="checkbox"/> PARTNERSHIP <input checked="" type="checkbox"/> LOCAL-AGENCY <input type="checkbox"/> STATE-AGENCY <input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> COUNTY-AGENCY <input type="checkbox"/> FEDERAL-AGENCY		
CITY NAME EMERYVILLE		STATE CA	ZIP CODE 94608	PHONE # WITH AREA CODE (510) 596-4333

III. TANK OWNER INFORMATION - (MUST BE COMPLETED)

NAME OF OWNER CITY OF EMERYVILLE		CARE OF ADDRESS INFORMATION		
MAILING OR STREET ADDRESS 2200 POWELL STREET		<input checked="" type="checkbox"/> box to indicate <input type="checkbox"/> CORPORATION <input type="checkbox"/> PARTNERSHIP <input checked="" type="checkbox"/> LOCAL-AGENCY <input type="checkbox"/> STATE-AGENCY <input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> COUNTY-AGENCY <input type="checkbox"/> FEDERAL-AGENCY		
CITY NAME EMERYVILLE		STATE CA	ZIP CODE 94608	PHONE # WITH AREA CODE (510) 596-4333

IV. BOARD OF EQUALIZATION UST STORAGE FEE ACCOUNT NUMBER - Call (916) 322-9669 if questions arise.

TY (TK) HQ **44-000436**

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

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

VI. LEGAL NOTIFICATION AND BILLING ADDRESS

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

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

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

OWNER'S NAME (PRINTED & SIGNED) JUAN C. ARREGUIN FOR	OWNER'S TITLE PROJECT ENGINEER	DATE MONTH/DAY/YEAR 05/25/94
---	--	--

LOCAL AGENCY USE ONLY

COUNTY # <input type="text"/>	JURISDICTION # <input type="text"/>	FACILITY # <input type="text"/>
LOCATION CODE - OPTIONAL <input type="text"/>	CENSUS TRACT # - OPTIONAL <input type="text"/>	SUPVISOR - DISTRICT CODE - OPTIONAL <input type="text"/>

THIS FORM MUST BE ACCOMPANIED BY AT LEAST (1) OR MORE PERMIT APPLICATION - FORM B, UNLESS THIS IS A CHANGE OF SITE INFORMATION ONLY.
OWNER MUST FILE THIS FORM WITH THE LOCAL AGENCY IMPLEMENTING THE UNDERGROUND STORAGE TANK REGULATIONS

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



COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM.

MARK ONLY ONE ITEM

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

DBA OR FACILITY NAME WHERE TANK IS INSTALLED: FIRE STATION

I. TANK DESCRIPTION COMPLETE ALL ITEMS - SPECIFY IF UNKNOWN

A. OWNER'S TANK I.D. #	B. MANUFACTURED BY:
C. DATE INSTALLED (MO/DAY/YEAR)	D. TANK CAPACITY IN GALLONS: <u>550 GALLONS</u>

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

A. <input checked="" type="checkbox"/> 1 MOTOR VEHICLE FUEL	<input type="checkbox"/> 4 OIL	B. <input type="checkbox"/> 1 PRODUCT	C. <input type="checkbox"/> 1a REGULAR UNLEADED	<input checked="" type="checkbox"/> 3 DIESEL	<input type="checkbox"/> 6 AVIATION GAS
<input type="checkbox"/> 2 PETROLEUM	<input type="checkbox"/> 80 EMPTY	<input type="checkbox"/> 2 WASTE	<input type="checkbox"/> 1b PREMIUM UNLEADED	<input type="checkbox"/> 4 GASAHOL	<input type="checkbox"/> 7 METHANOL
<input type="checkbox"/> 3 CHEMICAL PRODUCT	<input type="checkbox"/> 95 UNKNOWN		<input type="checkbox"/> 2 LEADED	<input type="checkbox"/> 5 JET FUEL	
D. IF (A.1) IS NOT MARKED, ENTER NAME OF SUBSTANCE STORED					C. A. S. #:

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

A. TYPE OF SYSTEM	<input type="checkbox"/> 1 DOUBLE WALL	<input type="checkbox"/> 3 SINGLE WALL WITH EXTERIOR LINER	<input checked="" type="checkbox"/> 95 UNKNOWN
	<input type="checkbox"/> 2 SINGLE WALL	<input type="checkbox"/> 4 SECONDARY CONTAINMENT (VAULTED TANK)	<input type="checkbox"/> 99 OTHER
B. TANK MATERIAL (Primary Tank)	<input type="checkbox"/> 1 BARE STEEL	<input type="checkbox"/> 2 STAINLESS STEEL	<input type="checkbox"/> 3 FIBERGLASS
	<input type="checkbox"/> 5 CONCRETE	<input type="checkbox"/> 6 POLYVINYL CHLORIDE	<input type="checkbox"/> 7 ALUMINUM
	<input type="checkbox"/> 9 BRONZE	<input type="checkbox"/> 10 GALVANIZED STEEL	<input checked="" type="checkbox"/> 95 UNKNOWN
			<input type="checkbox"/> 99 OTHER
C. INTERIOR LINING	<input type="checkbox"/> 1 RUBBER LINED	<input type="checkbox"/> 2 ALKYD LINING	<input type="checkbox"/> 3 EPOXY LINING
	<input type="checkbox"/> 5 GLASS LINING	<input type="checkbox"/> 6 UNLINED	<input checked="" type="checkbox"/> 95 UNKNOWN
			<input type="checkbox"/> 4 PHENOLIC LINING
			<input type="checkbox"/> 99 OTHER
	IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? YES ___ NO ___		
D. CORROSION PROTECTION	<input type="checkbox"/> 1 POLYETHYLENE WRAP	<input type="checkbox"/> 2 COATING	<input type="checkbox"/> 3 VINYL WRAP
	<input type="checkbox"/> 5 CATHODIC PROTECTION	<input type="checkbox"/> 91 NONE	<input checked="" type="checkbox"/> 95 UNKNOWN
			<input type="checkbox"/> 4 FIBERGLASS REINFORCED PLASTIC
			<input type="checkbox"/> 99 OTHER
E. SPILL AND OVERFILL	SPILL CONTAINMENT INSTALLED (YEAR) _____		OVERFILL PREVENTION EQUIPMENT INSTALLED (YEAR) _____

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

A. SYSTEM TYPE	A U 1 SUCTION	A U 2 PRESSURE	A U 3 GRAVITY	A U 99 OTHER
B. CONSTRUCTION	A U 1 SINGLE WALL	A U 2 DOUBLE WALL	A U 3 LINED TRENCH	A U <u>95</u> UNKNOWN
				A U 99 OTHER
C. MATERIAL AND CORROSION PROTECTION	A U 1 BARE STEEL	A U 2 STAINLESS STEEL	A U 3 POLYVINYL CHLORIDE (PVC)	A U 4 FIBERGLASS PIPE
	A U 5 ALUMINUM	A U 6 CONCRETE	A U 7 STEEL W/ COATING	A U 8 100% METHANOL COMPATIBLE W/FRP
	A U 9 GALVANIZED STEEL	A U 10 CATHODIC PROTECTION	A U <u>95</u> UNKNOWN	A U 99 OTHER
D. LEAK DETECTION	<input type="checkbox"/> 1 AUTOMATIC LINE LEAK DETECTOR	<input checked="" type="checkbox"/> 2 LINE TIGHTNESS TESTING	<input type="checkbox"/> 3 INTERSTITIAL MONITORING	<input type="checkbox"/> 99 OTHER

V. TANK LEAK DETECTION

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

VI. TANK CLOSURE INFORMATION

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

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

APPLICANT'S NAME (PRINTED & SIGNATURE) <u>JUAN C. ARREGUN FOR CITY OF EMERYVILLE X</u>	DATE
---	------

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

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

THIS FORM MUST BE ACCOMPANIED BY A PERMIT APPLICATION - FORM A, UNLESS A CURRENT FORM A HAS BEEN FILED.
FILE THIS FORM WITH THE LOCAL AGENCY IMPLEMENTING THE UNDERGROUND STORAGE TANK REGULATIONS

APPENDIX B
WASTE HAULING MANIFESTS

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802. WITHIN CALIFORNIA, CALL 1-800-852-7550.

93620457

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA C 0 0 0 1 7 1 9 5 2 0 0 0 0 0 1		Manifest Document No.		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address CITY OF EMERYVILLE 2200 Powell Street, Emeryville, CA. 94608				A. Blank Manifest Document Number 93620457					
4. Generator's Phone (510) 596-4333				B. State Generator's ID					
5. Transporter 1 Company Name H&H SHIP SERVICE CO		6. US EPA ID Number C A B B 0 4 7 7 1 1 6 1		C. State Transporter's ID 488048		D. Transporter's Phone 415-543-4835			
7. Transporter 2 Company Name				8. US EPA ID Number		E. State Transporter's ID			
9. Designated Facility Name and Site Address H & H SHIP SERVICE COMPANY 220 CHINA BASIN STREET SAN FRANCISCO, CA 94107				10. US EPA ID Number C A B B 0 4 7 7 1 1 6 1		G. Blank Facility ID			
						H. Facility's Phone (415) 543-4835			
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers		13. Total Quantity		14. Unit Wt/Vol		15. Waste Number	
		No. Type		Quantity		Wt/Vol		Waste Number	
a. RESIDUE GASOLINE TANK NON-RCRA HAZARDOUS WASTE SOLID		0 0 1 T P		0 0 5 0 0		P		312 EPA/OMB	
b.								EPA/OMB	
c.								EPA/OMB	
d.								EPA/OMB	
16. Special Handling Instructions and Additional Information JOB #14679 24 Hr. Emergency Contact: H & H # (415) 543-4835 APPROPRIATE PROTECTIVE CLOTHING AND RESPIRATOR				K. Handling Codes for Wastes Listed Above a. 01 b. c. d.					
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name: Juan C. Arcequin Signature: <i>Juan C. Arcequin</i>				Month		Day		Year	
				0 7		2 0		9 4	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name: ROBERT H. BREWSTER Signature: <i>Robert H. Brewster</i>				Month		Day		Year	
				0 7		2 0		9 4	
19. Discrepancy Indication Space				Month		Day		Year	
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name: _____ Signature: _____				Month		Day		Year	

DO NOT WRITE BELOW THIS LINE.

***APPENDIX C
LABORATORY DATA SHEETS - TANK REMOVAL AND EXCAVATION
SOIL SAMPLES***



Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

SEACOR
Attn: SANDRA BRUNI

Project 50100-003-01
Reported 25-July-1994

ANALYSIS FOR GASOLINE, BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES
by EPA SW-846 Methods 5030/8015M/8020.

Chronology

Laboratory Number 58464

Identification	Sampled	Received	Extracted	Analyzed	Run #	Lab #
S-1	07/20/94	07/20/94	07/22/94	07/22/94		1
SP-1	07/20/94	07/20/94	07/22/94	07/22/94		2
S-2	07/20/94	07/20/94	07/22/94	07/22/94		3



Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

SEACOR
Attn: SANDRA BRUNI

Project 50100-003-01
Reported 25-July-1994

ANALYSIS FOR GASOLINE, BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES

Laboratory Number	Sample Identification	Matrix
58464- 1	S-1	Soil
58464- 2	SP-1	Soil
58464- 3	S-2	Soil

RESULTS OF ANALYSIS

Laboratory Number: 58464- 1 58464- 2 58464- 3

Gasoline_Range:	1	430	18
Benzene:	ND<.005	0.63	0.028
Toluene:	0.032	6.0	0.16
Ethyl Benzene:	0.034	11	0.040
Total Xylenes:	0.012	1.5	0.099

Concentration: mg/kg mg/kg mg/kg

-- Surrogate % Recoveries --

Trifluorotoluene (SS): 108 MI MI

MI = Matrix interference.



Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

ANALYSIS FOR GASOLINE, BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES Quality Assurance and Control Data - Soil

Laboratory Number 58464

Compound	Method Blank (mg/kg)	RL (mg/kg)	Spike Recovery (%)	Limits (%)	RPD (%)
Gasoline_Range:	ND<1	1	76/76	55-139	0%
Benzene:	ND<.005	.005	105/105	67-141	0%
Toluene:	ND<.005	.005	97/97	67-141	0%
Ethyl Benzene:	ND<.005	.005	90/90	67-141	0%
Total Xylenes:	ND<.005	.005	95/95	67-141	0%

Definitions:

ND = Not Detected

RPD = Relative Percent Difference

RL = Reporting Limit

mg/kg = Parts per million (ppm)

QC File No. 58464

Cecilia Joergensen 7/26/94
Senior Chemist
Account Manager



Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

SEACOR
Attn: SANDRA BRUNI

Project 50100-003-01
Reported 26-July-1994

TOTAL PETROLEUM HYDROCARBONS AS DIESEL
BY EPA METHOD 8015M

Chronology

Laboratory Number 58464

Identification	Sampled	Received	Extracted	Analyzed	Run #	Lab #
S-1	07/20/94	07/20/94	07/22/94	07/23/94		1
SP-1	07/20/94	07/20/94	07/22/94	07/25/94		2
S-2	07/20/94	07/20/94	07/22/94	07/25/94		3



Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

SEACOR
Attn: SANDRA BRUNI

Project 50100-003-01
Reported 26-July-1994

TOTAL PETROLEUM HYDROCARBONS AS DIESEL

Laboratory Number	Sample Identification	Matrix
58464- 1	S-1	Soil
58464- 2	SP-1	Soil
58464- 3	S-2	Soil

RESULTS OF ANALYSIS

Laboratory Number: 58464- 1 58464- 2 58464- 3

Diesel Range:	86	3000	4800
Concentration:	mg/kg	mg/kg	mg/kg



Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

TOTAL PETROLEUM HYDROCARBONS AS DIESEL Quality Assurance and Control Data - Soil

Laboratory Number 58464

Compound	Method Blank (mg/kg)	RL (mg/kg)	Spike Recovery (%)	Limits (%)	RPD (%)
Diesel Range:	ND<10	10	94/102	50-150	8%

Definitions:

- ND = Not Detected
- RPD = Relative Percent Difference
- RL = Reporting Limit
- mg/kg = Parts per million (ppm)
- QC File No. 58464

Cecilia G. Jorgensen 7/26/94
 Senior Chemist
 Account Manager

38969

Chain-of-Custody Number: 1

SEACOR Chain-of-Custody Record

Field Office: _____
 Address: CITY OF EMERYVILLE DEPT. OF PUBLIC WORKS
2200 POWELL STREET, 12th FLOOR
EMERYVILLE, CA 94608

Additional documents are attached, and are a part of this Record.
 Job Name: CITY OF EMERYVILLE FIRE STATION
 Location: 4331 SAN PABLO AVENUE
EMERYVILLE, CA.

Project # 50100-003-0 Task # 00
 Project Manager SANDRA E. BRUNI
 Laboratory SUPERIOR ANALYTICAL
 Turnaround Time STANDARD

Sampler's Name SANDRA E. BRUNI
 Sampler's Signature Sandra Bruni

Sample ID	Date	Time	Matrix
S-1	7-20-94	1500	SOIL
SP-1		1510	
S-2		11000	

Analysis Request													Number of Containers
HClD	TPH/g/BTEX/WTPH-G 8015 (modified)/8020	TPH/d/WTPH-D 8015 (modified)	TPH 418.1/WTPH 418.1	Aromatic Volatiles 602/8020	Volatile Organics 624/8240 (GC/MS)	Halogenated Volatiles 601/8010	Semi-volatile Organics 625/8270 (GC/MS)	Pesticides/PCBs 608/8080	Total Lead 7421	Priority Pollutant Metals (13)	TCLP Metals	Comments/ Instructions	
	X	X											
	X	X											
	X	X											

Please initial:
 Samples stored in ice YES
 Appropriate containers YES
 Samples preserved NO
 VOA's without dilution N/A
 Comments: ON DELIVERY

Special Instructions/Comments:
 PLEASE FAX AND MAIL FINAL ANALYTICAL RESULTS TO:
 SANDRA BRUNI AT SEACOR AND ALSO BILL
 MR. JUAN ARREGUIN PROJECT ENGINEER AT CITY OF EMERYVILLE-DOPW.

Relinquished by: SANDRA E. BRUNI
 Sign Sandra Bruni
 Print SANDRA E. BRUNI
 Company SEACOR
 Time 1800 Date 7-20-94

Received by: _____
 Sign _____
 Print _____
 Company _____
 Time _____ Date _____

Received by: RICHARD FRAYER
 Sign R. FRAYER
 Print R. FRAYER
 Company SPA, SF.
 Time 1800 Date 7/20/94

Sample Receipt
 Total no. of containers: 3
 Chain of custody seals: N/A
 Rec'd. good condition/cold: YES
 Conforms to record: YES

Client: _____
 Client Contact: _____
 Client Phone: _____