

Environmental
Science &
Engineering, Inc.

Tank # 5

July 20, 1992

Project No. 6-92-5351

Mr. Jim de Vos
Buildings Manager
Alameda County General Services Agency
4400 MacArthur Boulevard
Oakland, California 94619

SUBJECT: Santa Rita Jail, Dublin, California

Dear Mr. de Vos:

Environmental Science and Engineering, Inc. (ESE) is pleased to provide this closure report for underground storage tank (UST) number 2942-5, formerly located at the subject facility. This report serves to document the legal removal and disposal of this UST. ESE presents this report in accordance with Alameda County Health Care Services Agency (HCSA) UST Closure Permit requirements. The following information is submitted in support of this tank closure.

ESE was authorized by the Alameda County General Services Agency (GSA), to effect the removal of this UST located at the subject facility (see Figure 1 - "Location Map") under Purchase Order No. 141-0-7595-01.

TANK HISTORY

GSA owned and operated one 1,000 gallon (4' diameter, 12'6" long) diesel fuel storage tank located at the Madigan Building. The single-wall, carbon steel tank fueled a boiler located within the Madigan Building (see Figure 2 - "Site Map"). The installation date of the tank is unknown. Prior to ESE's field investigation of this UST, the tank had been completely excavated by Pacific Gas and Electric excavation training crews. Upon commencement of work, the tank was found to be empty.

TANK CLOSURE ACTIVITIES

1. Permits for this tank removal were procured by ESE from HCSA and Doherty Regional Fire Authority (DRFA). Notification was made to the Bay Area Air Quality Management District (BAAQMD). A copy of the cover sheet of the HCSA permit and BAAQMD notification form is attached. Although DRFA does not issue written permits, site inspection was provided.

2. On Friday, May 15, 1992, approximately five cubic yards of soil was excavated to free the tank from the excavation pit. This soil was temporarily stockpiled near the excavation (see Figure 3 - "Tank Plan"). Product piping from the tank to the boiler was cut at the limit of excavation, and had been previously grouted. Vent piping had been previously disconnected and the remote fill line was removed entirely on this date.
3. On Monday, May 18, 1992, the tank internal atmosphere was rendered inert by the addition of 15 pounds of dry ice. In the presence of Mr. Jeff Shapiro of HCSA and Inspector Ron Johanson of the DRFA, the diesel tank was lifted from the excavation and loaded onto a flatbed truck. The tank was inspected and found to be somewhat corroded, however no visible holes were observed in the tank. The tank was manifested as a hazardous waste, and transported to Erickson Environmental of Richmond, California, a state-licensed treatment, storage and disposal facility (TSDF). A copy of the tank manifest and certificate of destruction indicating final acceptance and disposal, is attached.
4. The dimensions of the excavation were sixteen feet by eight feet by seven feet in depth. The tank top was located three feet below ground surface. A tank hold down pad was found below the tank and remains in the excavation pit. Soil within the excavation pit consisted of a friable alluvial sand. No visual signs of soil contamination were discovered and no petroleum odor was detected within the excavation. No root holes or other potential contaminant pathways were observed.
5. On Monday, May 18, 1992, one soil sample, sample identification (ID) 5N, was collected by ESE personnel from the north end of the excavation pit as directed by the HCSA representative (Figure 3) for sampling location) at a depth of ten feet below ground surface (approximately three feet below tank invert). The soil sample was collected utilizing a slide hammer fitted with a two-inch diameter brass ring. The sampler was driven into native soil until filled with soil. The brass sampling ring ends were covered with Teflon tape, plastic end caps and sealed with duct tape. The sample was placed in a cooler with ice and transported to Curtis and Tompkins, Ltd., a California Department of Health Services certified analytical laboratory. The sample was analyzed by the following methods:
 - EPA Method 8015M for Total Extractable Hydrocarbons (TEH) as Diesel;
 - EPA Method 8020 for Benzene, Toluene, Ethylbenzene, and Xylene (BTEX); and
 - Standard Methods for Water and Wastewater (SMWW) 5520 for Total Oil and Grease (TOG).

Mr. Jim de Vos
July 20, 1992
Page 3

6. Analysis of the soil sample collected from the excavation pit resulted in non-detectable concentrations of BTEX as well as non-detectable concentrations of TOG. Analysis for TEH as Diesel indicated a concentration of 4 milligrams per kilogram. In view of this low concentration ESE recommends that no further work be required at this site. Copies of laboratory reports and chain of custody documentation are attached.
7. A copy of the Hazardous Materials Inspection Form utilized by the HCSA representative for this site is attached.
8. At this time, the excavation pit remains open. However ESE is planning to backfill and compact the excavation with clean import fill in the near future.

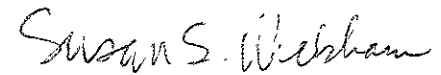
ESE appreciates the opportunity to perform this scope of work. Please contact Steve Willcutts at (510) 685-4053 with any questions regarding this project.

Sincerely,

ENVIRONMENTAL SCIENCE & ENGINEERING, INC.



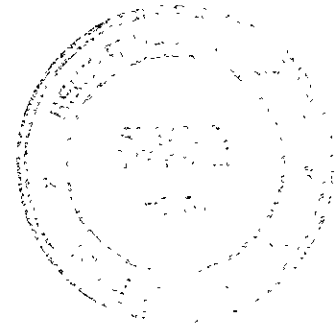
R. Stephen Willcutts
Senior Staff Engineer



Susan S. Wickham, RG 3851
Senior Geologist

RSW:rsw

Figures (3)
Attachments (5)

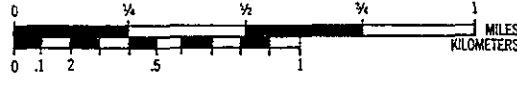
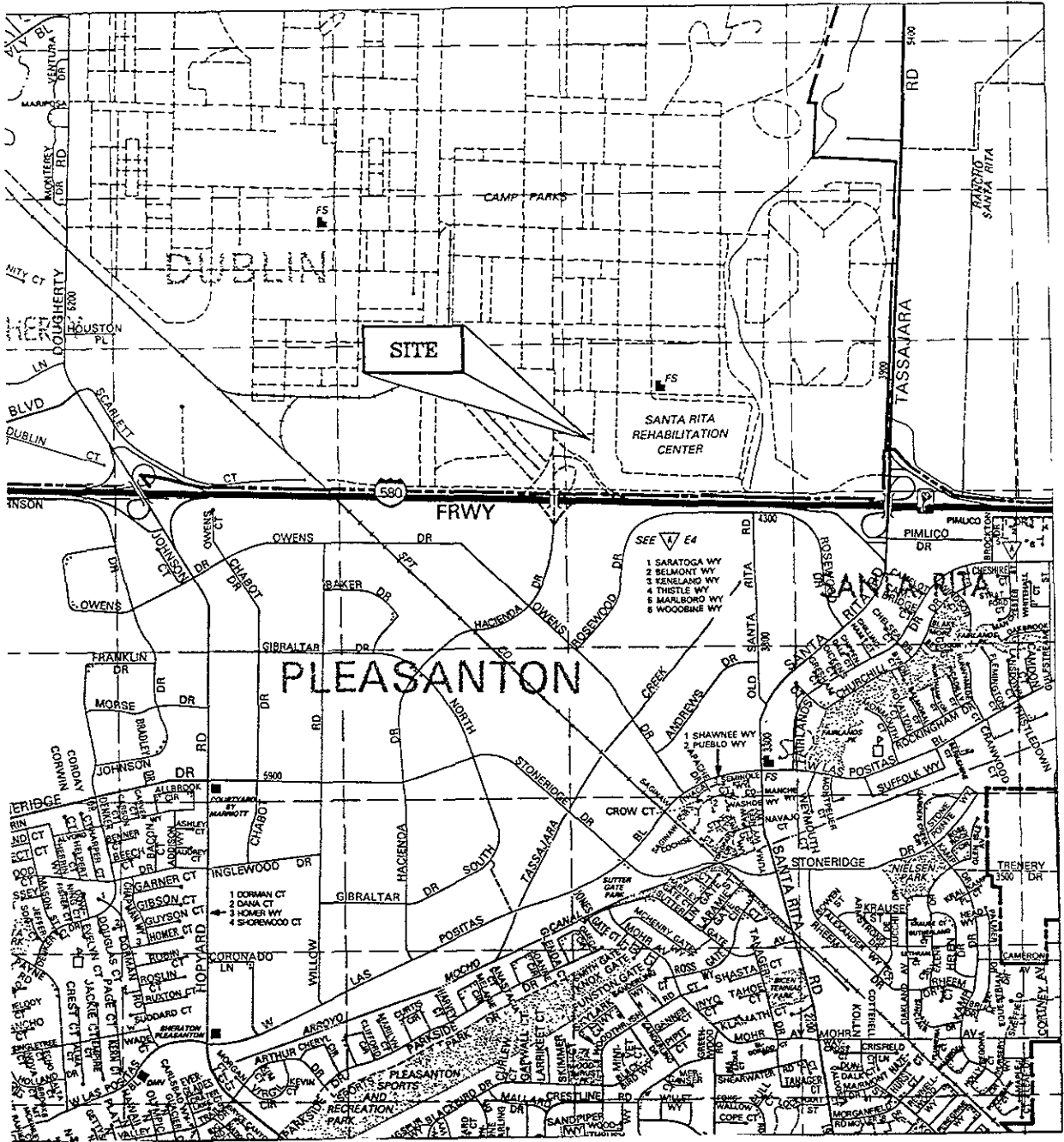


FIGURES


Figure 1 - Location Map

Figure 2 - Site Map

Figure 3 - Tank Plan



SCALE OF SINGLE MAP PAGES
1 INCH TO 2200 FEET

		Environmental Science & Engineering, Inc.
ALAMEDA COUNTY GSA SANTA RITA JAIL FACILITY DUBLIN, CA		
FIGURE 1 LOCATION MAP		
DRAWN BY RSW	APPROVED BY	REVISED
DATE 6/25/92	FILE NAME	PROJ. NO. 8-92-5351

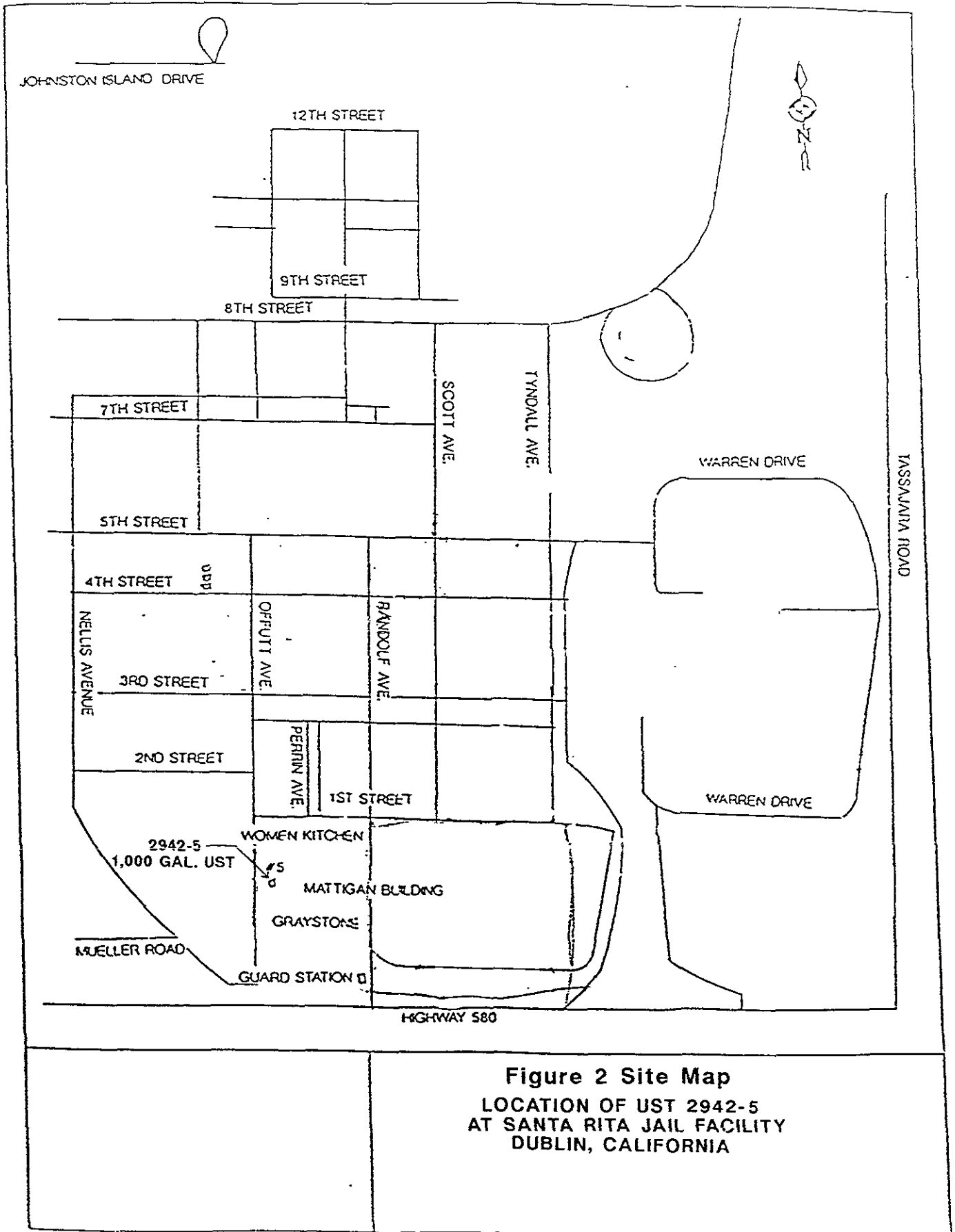
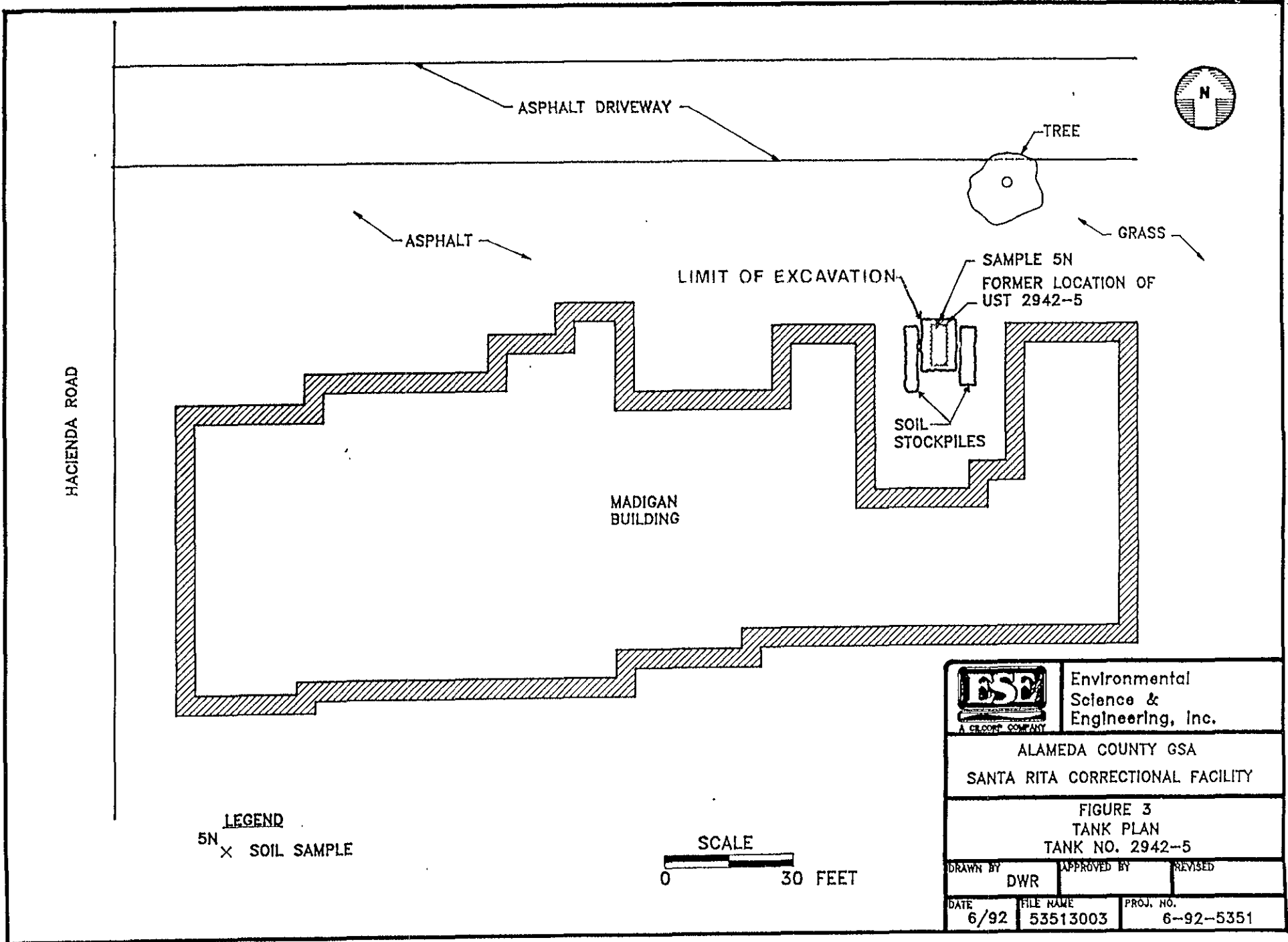



Figure 2 Site Map
LOCATION OF UST 2942-5
AT SANTA RITA JAIL FACILITY
DUBLIN, CALIFORNIA



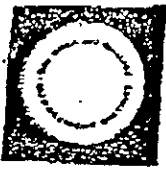
LEGEND
 5N
 X SOIL SAMPLE

SCALE
 0 30 FEET

 <small>A GILCOFF COMPANY</small>		Environmental Science & Engineering, Inc.
ALAMEDA COUNTY GSA SANTA RITA CORRECTIONAL FACILITY		
FIGURE 3 TANK PLAN TANK NO. 2942-5		
DRAWN BY DWR	APPROVED BY	REVISED
DATE 6/92	FILE NAME 53513003	PROJ. NO. 6-92-5351

ATTACHMENTS

- **Permits**
- **Hazardous Materials Inspection Form**
- **Hazardous Waste Manifest/Certificate of Destruction**
- **Laboratory Reports**
- **Chain-of-Custody Documentation**



BAY AREA AIR QUALITY MANAGEMENT DISTRICT

939 ELLIS STREET
SAN FRANCISCO, CALIFORNIA 94109
(415) 771-6000

REGULATION 8, RULE 40
Aeration of Contaminated Soil and
Removal of Underground Storage Tanks

Wagner

NOTIFICATION FORM

- Removal or Replacement of Tanks
- Excavation of Contaminated Soil

SITE INFORMATION

SITE ADDRESS 5325 Broder Blvd., Santa Rita Jail

CITY, STATE Dublin, CA

OWNER NAME Alameda County General Services Agency ZIP 94568

SPECIFIC LOCATION OF PROJECT Five different locations at Santa Rita Jail Facility

TANK REMOVAL

SCHEDULED STARTUP DATE 5/5/92

VAPORS REMOVED BY:

WATER WASH

VAPOR FREEING (CO²)

VENTILATION

CONTAMINATED SOIL EXCAVATION

SCHEDULED STARTUP DATE _____

STOCKPILES WILL BE COVERED? YES _____ NO _____

ALTERNATIVE METHOD OF AERATION (DESCRIBE BELOW): _____

(MAY REQUIRE PERMIT)

CONTRACTOR INFORMATION

NAME Environmental Science & Engineering CONTACT Steve Willcutts

ADDRESS 4090 Nelson Ave., #J PHONE (510) 685-4053

CITY, STATE, ZIP Concord, CA 94520

CONSULTANT INFORMATION (IF APPLICABLE)

NAME _____ CONTACT _____

ADDRESS _____ PHONE () _____

CITY, STATE, ZIP _____

OFFICE USE ONLY

DATE RECEIVED FAX 4/29/92 BY Bly
(init.)

DATE POSTMARKED _____ BY _____
(init.)

INSPECTOR NO. 552 DATE 4/30/92 BY pe
(init.)

DATE CONTACT NAME _____ DATE _____ BY _____
(init.)

SEND N # _____ DATA ENTRY 4/30/92 BY _____
(init.)

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

Project Specialist (print) Jeff Shapiro

ACCEPTED
DEPARTMENT OF ENVIRONMENTAL HEALTH
470 - 27th Street, 4th Floor
Oakland, CA 94612
Telephone: (415) 645-7737

These plans have been reviewed and found to be acceptable and consistent with the requirements of State and local health law. Changes to these plans indicated by the Department are in accordance with State and local laws. The project proponent shall have the responsibility of issuing all necessary permits for construction.

One copy of these plans and specifications must be available to all construction establishment involved with this removal.

Any change or alteration of these plans and specifications must be submitted to the Department and approved by the City and Building Department before construction begins. It is the responsibility of the project proponent to obtain all necessary permits and approvals from the City and State and local laws.

Removal of Tank and Piping

City

City

Requires that the project proponent be knowledgeable on compliance with all applicable laws and all applicable laws and regulations.

THE CITY OF ALAMEDA ACCEPTS NO LIABILITY FOR NOT CONSULTING THESE INSTRUCTIONS.

please give 5 day notice before tank removal!
Jeff Shapiro
4/20/92

UNDERGROUND TANK CLOSURE PLAN

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

- 1. Business Name Santa Rita Jail
Business Owner Alameda County General Services Agency
- 2. Site Address 5325 Broder Boulevard
City Dublin Zip 94568 Phone (510) 551-6674
- 3. Mailing Address Same
City _____ Zip _____ Phone _____
- 4. Land Owner Alameda County General Services Agency
Address 4400 MacArthur Blvd. City, State Oakland, CA Zip 94619
- 5. Generator name under which tank will be manifested _____
Alameda County General Services Agency
EPA I.D. No. under which tank will be manifested CAD 981397060

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 # _____ Site Name (MADDIGAN) SANTA RITA Today's Date 5/18/92

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)

Site Address OLD SANTA RITA Jail

City Dublin Zip 94 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

II.B ACUTELY HAZ. MATLS

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

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

Comments:

THIS IS A UST REMOVAL. (MADDIGAN Bldg.)
1-1,000 GAL DIESEL.

III. UNDERGROUND TANKS (Title 23)

- | | |
|-------------------------------|--|
| General | ___ 1. Permit Application 25284 (H&S) |
| | ___ 2. Pipeline Leak Detection 25292 (H&S) |
| | ___ 3. Records Maintenance 2712 |
| | ___ 4. Release Report 2651 |
| | ___ 5. Closure Plans 2670 |
| Monitoring for Existing Tanks | ___ 6. Method |
| | 1) Monthly Test |
| | 2) Daily Vadose
Semi-annual groundwater
One time soils |
| | 3) Daily Vadose
One time soils
Annual tank test |
| | 4) Monthly Groundwater
One time soils |
| | 5) Daily Inventory
Annual tank testing
Cont pipe leak det
Vadose/groundwater mon. |
| | 6) Daily Inventory
Annual tank testing
Cont pipe leak det |
| | 7) Weekly Tank Gauge
Annual tank testing |
| | 8) Annual Tank Testing
Daily Inventory |
| | 9) Other _____ |
| New Tanks | ___ 7. Precs Tank Test 2643 |
| | ___ 8. Inventory Rec. 2644 |
| | ___ 9. Soil Testing 2646 |
| | ___ 10. Ground Water. 2647 |
| | ___ 11. Monitor Plan 2632 |
| | ___ 12. Access. Secure 2634 |
| | ___ 13. Plans Submit 2711 |
| | ___ 14. As Built 2635 |
| | Date: _____ |
| | Date: _____ |

NO PETROLEUM OILS DETECTED FROM THE PIT.
NO VISUAL SIGNS OF CONTAMINATION IN SOIL W/IN THE PIT.
NO VISUAL OILS DETECTED IN TANK.

SAMPLES 5N

5N

← PIT →

Rev 6/88

Contact: Patrick Galvin / ESE
 Title: Sr. Engineer
 Signature: [Signature]

Inspector: JEFF SHAFER
 Signature: [Signature]

II, III

78564

Please print or type. Form designed for use on elite (12-pitch typewriter).

78564

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7660

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA D 9 8 1 3 9 7 0 6 0 4 8 3 6 5		Manifest Document No. 18365		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.		
3. Generator's Name and Mailing Address SANTA RITA JAIL 5325 BRODER BLVD. DUBLIN, CALIFORNIA 94568						A. State Manifest Document Number 90648365				
4. Generator's Phone (510) 551-6674						B. State Generator's ID				
5. Transporter 1 Company Name ERICKSON INC.			6. US EPA ID Number CA D 0 0 9 4 6 6 3 9 2			C. State Transporter's ID 205702		D. Transporter's Phone (510) 235-1393		
7. Transporter 2 Company Name						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 CA D 0 0 9 4 6 6 3 9 2		G. State Facility's ID CA D 0 0 9 4 6 6 3 9 2		
						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	
a. Waste Empty Storage Tank NON-RCRA Hazardous Waste Solid.					0102 TIP 15000				I. Waste No. State: 512 EPA/Other: NONE	
b.									State	
c.									EPA/Other	
d.									State	
e.									EPA/Other	
J. Additional Descriptions for Materials Listed Above Qty: TWO Empty Storage Tank (s) #8734, 8742. Tank (s) have been inerted with 15 lbs. Dry Ice per 1000 Gal. Capacity.						K. Heading Codes for Wastes Listed Above a. 01 b. c. d.				
15. Special Handling Instructions and Additional Information Keep away from sources of ignition: Always wear hardhats when working around U:S:T.'s 24 Hr. Contact Name Alameda County D.O.H.S. & Phone (510) 271-4530										
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.										
Printed/Typed Name R. Stephen Willatts Jr. for Alameda City GSA				Signature <i>R. Stephen Willatts Jr.</i>		Month Day Year 05 18 92				
17. Transporter 1 Acknowledgement of Receipt of Materials					Printed/Typed Name DAN BAILEY		Signature <i>Dan Bailey</i>		Month Day Year 05 18 92	
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 David H. Rossin, Jr.				Signature <i>David H. Rossin, Jr.</i>		Month Day Year 05 18 92				

GENERATOR

TRANSPORTER

FACILITY

Do Not Write Below This Line

White: TSDf SENDS THIS COPY TO DOHS WITHIN 30

DAY OR NIGHT
TELEPHONE
(510) 235-1393

CERTIFICATE CERTIFIED SERVICES COMPANY

255 Parr Boulevard • Richmond, California 94801

NO. 11242

CUSTOMER
ENVIRO SCI & E
JOB NO. 7856

FOR: Erickson, Inc. TANK NO. 8712

LOCATION: Richmond DATE: 05/26/92 TIME: 07:09:02

TEST METHOD Visual Gastech/1314 SMPX LAST PRODUCT D

This is to certify that I have personally determined that this tank is in accordance with the American Petroleum Institute and have found the condition to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

TANK SIZE 1000 Gallon Tank CONDITION SAFE FOR FIRE

REMARKS: OXYGEN 20.9%
LOWER EXPLOSIVE LIMIT LESS THAN 0.1%

"ERICKSON INC. HEREBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN
CUT OPEN, PROCESSED, AND THEREFORE DESTROYED AT OUR PERMITTED HAZARDOUS
WASTE FACILITY."

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

STANDARD SAFETY DESIGNATION

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

SAFE FOR FIRE: Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below 10 percent of the lower explosive limit; and that (b) In the judgment of the Inspector, the residues are not capable of producing a higher concentration than permitted under existing atmospheric conditions in the presence of fire and while maintained as directed on the Inspector's certificate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the Inspector.

The undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued.

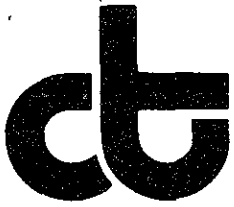
REPRESENTATIVE

K. Blough

TITLE

INSPECTOR

DR



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

DATE RECEIVED: 5/19/92
DATE REPORTED: 5/26/92
DATE REISSUED: 8/20/92

LABORATORY NUMBER: 107420

CLIENT: ENVIRONMENTAL SCIENCE & ENGINEERING

PROJECT ID: 6-92-5351

LOCATION: SANTA RITA JAIL

RESULTS: SEE ATTACHED

Reviewed By

Reviewed By

LABORATORY NUMBER: 107420
 CLIENT: ENVIRONMENTAL SCIENCE & ENGINEERING
 PROJECT ID: 6-92-5351
 LOCATION: SANTA RITA JAIL

DATE SAMPLED: 5/18/92
 DATE RECEIVED: 5/19/92
 DATE EXTRACTED: 5/19/92
 DATE ANALYZED: 5/21/92
 DATE REPORTED: 5/26/92
 DATE REISSUED: 8/20/92

Extractable Petroleum Hydrocarbons in Soils & Wastes
 California DOHS Method
 LUFT Manual October 1989

LAB ID	SAMPLE ID	KEROSENE RANGE (mg/Kg)	DIESEL RANGE (mg/Kg)	REPORTING LIMIT* (mg/Kg)
107420-008	5-N	ND	4	1

ND = Not Detected at or above reporting limit.

* Reporting limit applies to all analytes.

QA/QC SUMMARY: LABORATORY CONTROL SAMPLE

=====

RECOVERY, %	89
-------------	----

=====

LABORATORY NUMBER: 107420
 CLIENT: ENVIRONMENTAL SCIENCE & ENGINEERING
 PROJECT ID: 6-92-5351
 LOCATION: SANTA RITA JAIL

DATE SAMPLED: 5/18/92
 DATE RECEIVED: 5/19/92
 DATE ANALYZED: 5/21/92
 DATE REPORTED: 5/26/92
 DATE REISSUED: 8/20/92

=====
 ANALYSIS: HYDROCARBON OIL & GREASE (GRAVIMETRIC)
 ANALYSIS METHOD: SMWW 17: 5520EF
 =====

LAB ID	SAMPLE ID	RESULT	UNITS	REPORTING LIMIT
107420-008	5-N	ND	mg/Kg	50
BLANK		ND	mg/Kg	50

ND = Not detected at or above reporting limit.

QA/QC SUMMARY:

=====
 RPD, % 84
 RECOVERY, % 4.6
 =====

