



Environmental
Science &
Engineering, Inc.

ALCO
HAZMAT
94 JUN 23 PM 2:44

June 20, 1994

Mr. Scott O. Seery
Senior Hazardous Materials Specialist
Alameda County Health Care Services Agency
80 Swan Way, Room 350
Oakland, CA 94621

**SUBJECT: REPORT OF STOCKPILED SOIL SPREADING AND DISPOSAL
UST 1, 2, 3 SITE
SANTA RITA CORRECTIONAL FACILITY
DUBLIN, CALIFORNIA
ESE PROJECT NO. 6-94-5236**

Dear Mr. Seery:

Environmental Science & Engineering, Inc. (ESE) presents this report which documents the spreading and disposal of stockpiled soil located at the subject site (Figure 1 - Location Map). ESE was contracted by Alameda County General Services Agency (GSA) to perform these activities.

BACKGROUND

In March, 1988, Environmental Technology directed the removal of three underground storage tanks (USTs) at the subject site (Figure 2 - Site Plan) under permit from the Alameda County Health Care Services Agency (HCSA) and the Dougherty Regional Fire Authority. The GSA owned and operated one 3,000-gallon capacity UST (UST 1; Figure 2) for the storage of diesel fuel and two 5,000-gallon capacity USTs (UST 2 and UST 3; Figure 2) for the storage of Bunker C fuel oil. The fuels were used to operate a series of boilers formerly located at the site. All USTs were of single-wall carbon steel construction. The installation dates for the tanks are unknown.

During the removal of the USTs, the HCSA witnessed the collection of eight soil samples from the base of the excavation. All samples were analyzed for total petroleum hydrocarbons as diesel fuel (TPH-D) and gasoline (TPH-G) using EPA Method 8015 (modified per CA LUFT) and total oil and grease (TOG) using Standard Methods for the Examination of Water and Waste Water (SMWW) Method 503E. Four samples (1A, 3A, 3B, and 3C) were reported to contain detectable concentrations of TPH-D ranging from 25 to 15,500 parts per million (ppm) and two samples (1A and 3C) were reported to contain TPH-G concentrations of 50 ppm and 195 ppm, respectively. All eight samples were reported to contain detectable concentrations of TOG ranging from 6 to 1,097 ppm.

A preliminary site assessment was performed by Gregg & Associates during March, 1988, to determine the areal extent of soil impacted with petroleum hydrocarbons. One soil sample was collected at a depth of 15 feet from each of the four borings drilled during the preliminary site assessment and analyzed for TPH-D. No detectable concentrations of TPH-D were reported to occur in the four samples (1C, 3D, 3E, and 3F). Detectable concentrations of TOG were reported for each sample and ranged from 22 to 42 ppm. Based on these findings, Gregg & Associates supervised the overexcavation of soil impacted with petroleum hydrocarbons (Figure 2). All findings were documented in an Underground Tank Removal and Site Remediation Report prepared by Gregg & Associates and submitted to the HCSA during May, 1988.

On November 3, 1993, ESE mapped the stockpiled soil at the subject site. ESE estimated the total volume of the stockpiled soil at the site to be approximately 400 cubic yards. On November 24, 1993, ESE submitted a workplan to the HCSA for sampling the stockpiled soil. Subsequently, ESE collected soil samples from the stockpile on November 30, 1993 at a frequency of one sample for approximately every 50 cubic yards and analyzed each for TPH-D and benzene, toluene, ethylbenzene, and total xylenes (BTEX) using EPA Method 8015 (modified per CA LUFT) and EPA Method 8020, respectively. Of the eight soil samples analyzed, one sample (SP-3-2.5') was reported to contain detectable TPH-D, at a concentration of 130 ppm (Figure 3 - Soil Stockpile Sample Locations). Results of the stockpile sampling were presented to the HCSA in a letter report dated December 7, 1993.

SITE ACTIVITIES

Prior to work start, all onsite personnel attended a brief health and safety tailgate meeting. The purpose of the meeting was to summarize the health and safety plan and describe the potential hazards. All work was performed in level D personal protective gear.

Under the supervision of ESE, Evans Brothers, Inc. of Livermore, California (a State-licensed contracting firm) loaded and hauled the approximately 36 cubic yards of stockpiled soil reported to contain detectable concentrations of TPH-D. The soil was hauled under nonhazardous waste manifest to the Browning-Ferris Industries (BFI) Class III Vasco Road landfill facility located at Livermore, California. Copies of the nonhazardous waste manifests are provided as Attachment 1.

As approved by the HCSA, the remaining approximately 364 cubic yards of nonimpacted soil were spread at the site over an area of approximately 125 feet by 125 feet at an average thickness of approximately six inches. No petroleum hydrocarbon discolorations or odors were observed in the spread soil.

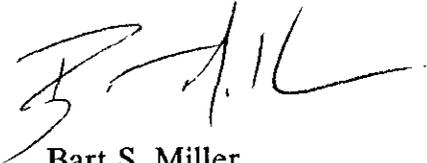
36 yds³
364 yds³
OK

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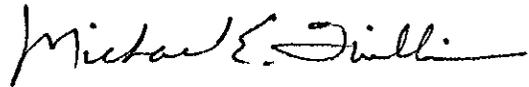
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Our professional services have been performed using that degree of care and skill ordinarily exercised under similar circumstances by other geologists and engineers practicing in this field. No other warranty, express or implied, is made as to the professional advice in this report. Please feel free to contact Bart Miller at (510) 685-4053 with any questions or comments pertaining to this report.

Sincerely,
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.

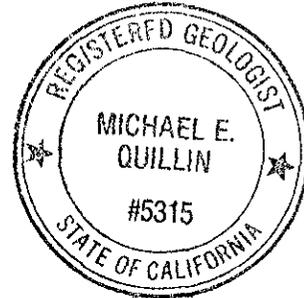


Bart S. Miller
Project Geologist

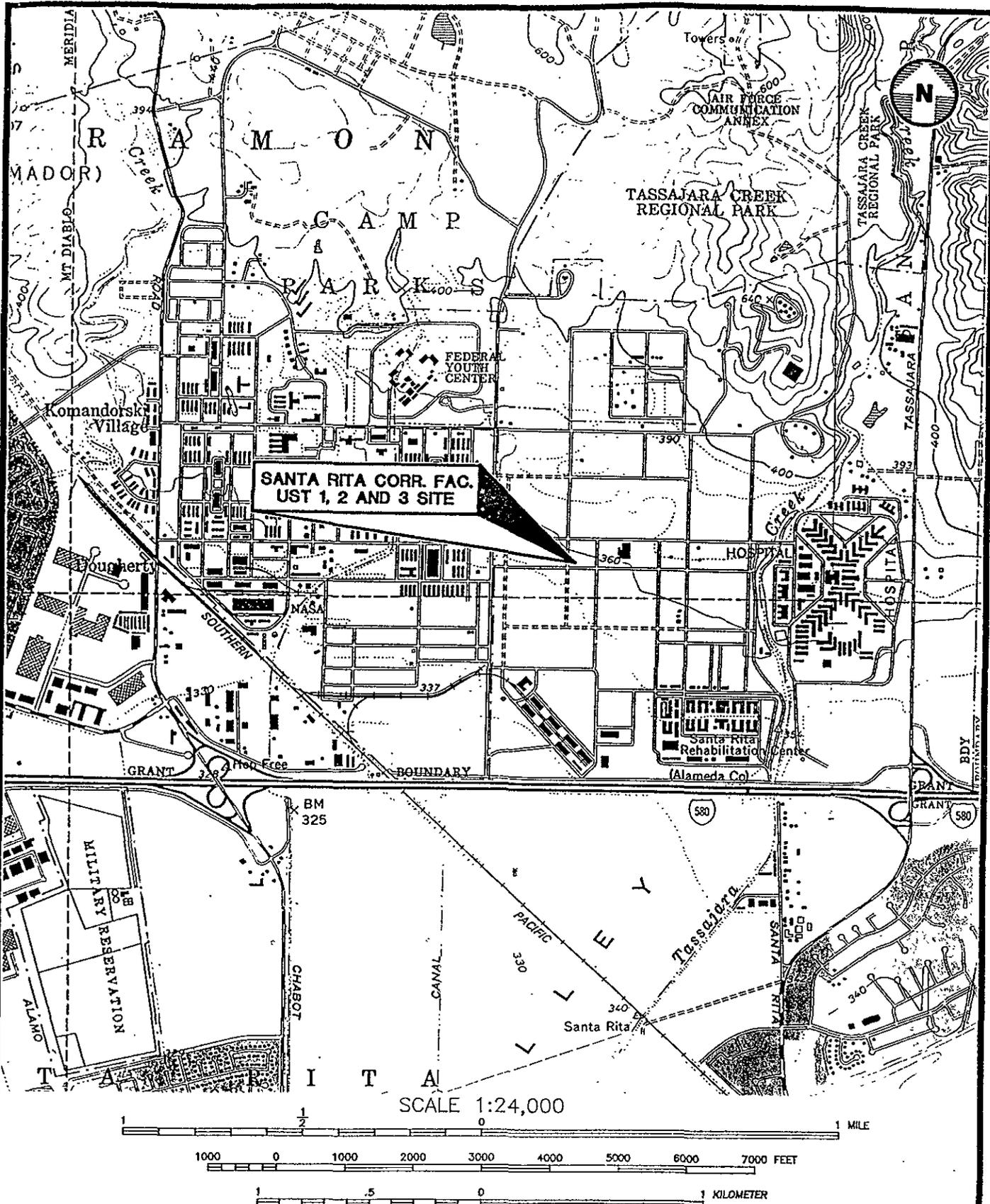


Michael E. Quillin, R.G. 5315
Manager, Geosciences

Figures
Attachment



FIGURES



ADAPTED FROM U.S.G.S. DUBLIN AND LVERMORE, CALIFORNIA 7.5 MINUTE TOPOGRAPHIC QUADRANGLE MAPS, 1980.



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DATE
12/93

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CAD FILE
51751001

LOCATION MAP

ALAMEDA COUNTY GSA
SANTA RITA CORRECTIONAL FACILITY
DUBLIN, CALIFORNIA

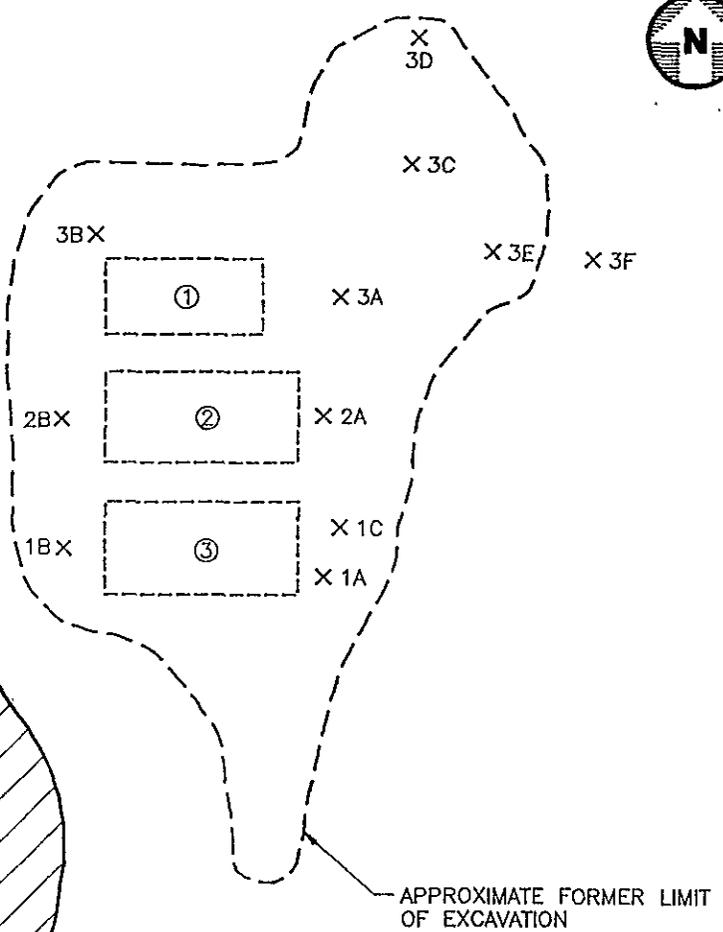
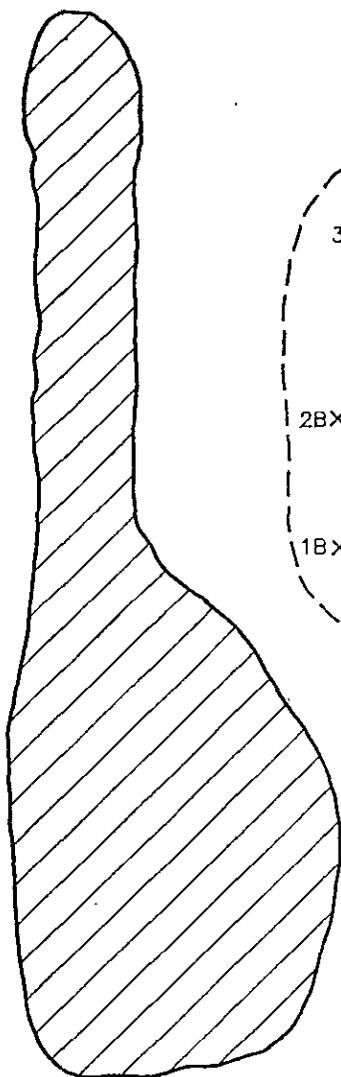
FIGURE NO.
1

PROJ. NO.
6-93-5175

4090 NELSON AVENUE, SUITE J
CONCORD, CA 94520



OFFUTT AVENUE



4th STREET

DEAD END

LEGEND

- ① FORMER 3,000 GALLON DIESEL FUEL UST
- ② FORMER 5,000 GALLON BUNKER C FUEL OIL UST
- ③ FORMER 5,000 GALLON BUNKER C FUEL OIL UST
-  STOCKPILED SOIL
- 2Bx FORMER SOIL SAMPLE LOCATION WITH SAMPLE NUMBER



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CAD FILE
51751002

SITE PLAN

ALAMEDA COUNTY GSA
SANTA RITA CORRECTIONAL FACILITY
DUBLIN, CALIFORNIA

FIGURE NO.
2

PROJ. NO.
6-93-5175

4090 NELSON AVENUE, SUITE J
CONCORD, CA 94520



O F F U T T A V E N U E

- SP-1-3.5' → X
- SP-2-1.5' → X
- SP-3-2.5' → X
- SP-4-2' → X
- SP-5-3' → X
- SP-6-2.5' → X
- SP-7-1.5' → X
- SP-8-2' → X



APPROXIMATE FORMER LIMIT OF EXCAVATION

LEGEND

SP-4-2' X PROPOSED SOIL SAMPLE LOCATION WITH SAMPLE NUMBER AND DEPTH
 *NOTE: MAXIMUM HEIGHT OF STOCKPILE IS FOUR FEET

4 t h S T R E E T

DEAD END



**Environmental
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4090 NELSON AVENUE, SUITE J
 CONCORD, CA 94520

DATE

12/93

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CAD FILE

51751003

SOIL STOCKPILE SAMPLE LOCATIONS

ALAMEDA COUNTY GSA
 SANTA RITA CORRECTIONAL FACILITY
 DUBLIN, CALIFORNIA

FIGURE NO.

3

PROJ. NO.

6-93-5175

ATTACHMENT



No 1061260

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name Cashy of Alameda Generating Location San Ramon Detention

Address 4700 MacArthur Ave Address ---

ONEderland CA 94519

Phone No. 510-5356280 Phone No. 510-5359280

BFI Waste Code CA 405 09 1194 22 380 Description of Waste

Quantity	Units	No.	Type
<u>18</u>	<u>V</u>	<u>14</u>	<u>X</u>

Containers: 14 Type: X

Type Legend:
 D - Drum
 C - Carton
 B - Bag
 T - Truck
 P - Pounds
 V - Vial
 O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name Peter Kinney Signature [Signature] Shipment Date 05 11 94

TRANSPORTER

Truck No. 5 Phone No. 510-644-1848

Transporter Name LEWIS Driver Name (Print) Johnny Lewis

Address 1530 Russell Berkeley Vehicle License No./State PC4 0330

Vehicle Certification

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature [Signature] Shipment Date 05 11 94 Driver Signature [Signature] Delivery Date 05 11 94

DESTINATION

Site Name BFI Phone No. 510-4470491

Address Vadote Lawrence

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent [Signature] Signature [Signature] Receipt Date 05 11 94

PASS CODE

GENERATOR RETAIN

BFL250,720



NON-HAZARDOUS SPECIAL WASTE MANIFEST

No. 1061261

GENERATOR

Generator Name Curtis A. Alvarado Generating Location San Jose, California

Address 4700 MACARTHUR BLVD Address SAN JOSE, CA

City SAN JOSE, CA

Phone No. 510-5356280 Phone No. 510-5356280

BFI Waste Code KA 405 051194 72380 Description of Waste

Description of Waste	Quantity	Units	Containers		Type
			No.	Type	
SOIL	18	7	14	Y	D - Drum
					C - Carton
					B - Bag
					T - Truck
					P - Pounds
					Y - Yards
					O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name Peter Kinney Signature Peter Kinney Shipment Date 051194

TRANSPORTER

Truck No. 5 Phone No. 510 6221810

Transporter Name LEWIS Driver Name (Print) Johnny Lewis

Address 1530 Maxwell Berkeley Vehicle License No./State PL4 233D

Vehicle Certification

I hereby certify that the above named material was picked up at the generator site listed above. I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature [Signature] Shipment Date 051194 Driver Signature [Signature] Delivery Date 051194

DESTINATION

Site Name BFI Phone No. 510-4470991

Address 1000 2nd St. Livermore

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent [Signature] Receipt Date 051194

PASS CODE 62680

GENERATOR RETAIN