

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



Alameda County
Environmental Protection Division
1131 Harbor Bay Parkway, Room 250
Alameda CA 94502-6577

CC4580

August 22, 1996

STID 1174

REMEDIAL ACTION COMPLETION CERTIFICATION

Mr. Jim de Vos
Alameda County General Services Agency
Engineering & Environmental Management Department
1401 Lakeside Drive, 11th Floor
Oakland, CA 94612

RE: FAIRMONT HOSPITAL, 15400 FOOTHILL BOULEVARD, SAN LEANDRO

Dear Mr. de Vos:

This letter confirms the completion of site investigation and remedial action for the five (5) underground storage tanks formerly located at the above-described location. Enclosed is the Case Closure Summary for the referenced site for your records.

Based upon the available information, including current land use, and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground storage tank releases is required.

This notice is issued pursuant to a regulation contained in Title 23, California Code of Regulations, Division 3, Chapter 16, Section 2721(e). If changes in land use, structural configuration, or site activities are proposed such that more conservative exposure scenarios should be evaluated, the owner must promptly notify this agency.

Please contact Scott Seery at (510) 567-6783 if you have any questions regarding this matter.

Sincerely,


Mee Ling Tung
Director of Environmental Health Services

enclosure

cc: Gordon Coleman, Acting Chief, Env. Protection Division
Kevin Graves, RWQCB
Lori Casias, SWRCB (w/enclosure)
Dave Deaner, SWRCB

- SIGNED
COPY -

01-0610

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION

Date: 07/15/96

Agency name: Alameda County-EPD Address: 1131 Harbor Bay Pkwy #250
City/State/Zip: Alameda, CA 94502 Phone: (510) 567-6700
Responsible staff person: Scott Seery Title: Sr. Haz. Materials Spec.

II. CASE INFORMATION

Site facility name: Fairmont Hospital
Site facility address: 15400 Foothill Blvd., San Leandro 94578
RB LUSTIS Case No: N/A Local Case No./LOP Case No.: 1174
URF filing date: 4/26/88 SWEEPS No: N/A
8/13/93

<u>Responsible Parties:</u>	<u>Addresses:</u>	<u>Phone Numbers:</u>
General Services Agency Eng. & Env. Mngt. Dept. Attn: Jim de Vos	1401 Lakeside Dr., 11th Flr Oakland, CA 94612	(510) 208-9520

<u>Tank No:</u>	<u>Size in gal.:</u>	<u>Contents:</u>	<u>Closed in-place or removed?:</u>	<u>Date:</u>
1	12,000	bunker C	closed in-place	8/12/94
2	12,000	" "	removed	5/25/95
3	1,000	diesel	"	7/29/93
4	1,000	"	"	5/25/95
5	500	gasoline	"	3/30/93

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: probable overfilling

Site characterization complete? YES

Date approved by oversight agency:

Monitoring Wells installed? NO Number: 0

Proper screened interval? NA

Highest GW depth below ground surface: UNK Lowest depth: UNK

Flow direction: UNK

Most sensitive current use: hospital facility

Are drinking water wells affected? NO Aquifer name: NA

Is surface water affected? NO Nearest affected SW name: NA

ENVIRONMENTAL
SECTION
22 PM 2:20

Leaking Underground Fuel Storage Tank Program

III. RELEASE AND SITE CHARACTERIZATION INFORMATION (Continued)

Off-site beneficial use impacts (addresses/locations): NONE

Report(s) on file? **YES** Where is report filed? **Alameda County**
1131 Harbor Bay Pkwy
Alameda CA 94502

Treatment and Disposal of Affected Material:

<u>Material</u>	<u>Amount (include units)</u>	<u>Action (Treatment or Disposal w/destination)</u>	<u>Date</u>
Tank #5	500 gallon	<u>Disposal</u> - Erickson, Inc. Richmond, CA	3/30/93
3	1000 gallon	<u>Disposal</u> - Erickson, Inc. Richmond, CA	7/29/93
1	12,000 gallon	<u>In-place closure</u>	8/12/94
4	1000 gallon	<u>Disposal</u> - Erickson, Inc. Richmond, CA	5/25/95
2	12,000 gallon	<u>Disposal</u> - Phllps.-Burlngtn Washougal, WA	5/23/95
Piping	UNK	UNK	
Product	350 gallon (gas)	<u>Disposal</u> - Gibson/Pilot Redwood City, CA	3/26/93
	350 gallon (dies.)	<u>Disposal</u> - Gibson/Pilot Redwood City, CA	3/26/93
	11,800 gal. (rinsate)	<u>Disposal</u> - Enviropur Patterson, CA	8/12/94
	2,500 gallon	<u>Disposal</u> - Fuel Oil Prcsrs Portland, OR	5/17/95
Soil	6 yds ³	<u>Disposal</u> - BFI L.F. Livermore, CA	8/24/93
	22 yds ³	<u>Disposal</u> - BFI L.F. Livermore, CA	8/24/93
	15 yds ³	<u>Disposal</u> - BFI L.F. Livermore, CA	6/13/95
Groundwater	NA		
Barrels	"		

Leaking Underground Fuel Storage Tank Program

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (ppm)		Water (ppb)	
	Before ¹	After ²	Before	After
TPH (Gas)	ND	NA	NA	NA
TPH (Diesel)	12,000	ND	"	"
Benzene	ND	"	"	"
Toluene	0.005	"	"	"
Xylene	ND	0.028	"	"
Ethylbenzene	"	ND	"	"
Oil & Grease (418.1)	166	NA	"	"
Heavy metals (Pb)	8.8	"	"	"
Other (PCB)	ND	"	"	"

- Note:
- 1) "Before" TPH-G and total Pb results from sample S-1 collected from the base of the UST #5 excavation during its March 1993 closure. "Before" TPH-D and BTEX soil results from sample S-2 collected from the base of the UST #3 excavation during its July 1993 closure. "Before" oil and grease (418.1) soil result from the 17' sample collected from boring FHB-1 emplaced at the west end of UST #1 during June 1988. "Before" PCB soil results from samples collected from the base of the UST #2 excavation during its 1995 closure.
 - 2) "After" soil results from the sample collected at depth of 16' BG from boring SB-5 advanced during April 1994 near the former UST #3 excavation.

Comments (Depth of Remediation, etc.):

Between March 1993 and May 1995, five (5) USTs were closed at various locations about the Fairmont Hospital campus. Four of the 5 USTs were closed through removal; one tank (UST #1) was closed in-place. A summary of each closure follows:

UST #1 - 12,000 gallon

UST #1 is located directly adjacent to the truck loading dock which serves the campus Shop and Power House. This tank reportedly stored fuel oil (Bunker C) for use as an emergency fuel source for the campus boilers. Due to its proximity to the adjoining structures, in-place closure was approved by the Alameda County Fire Marshall and ACDEH.

After attempting to remove accumulated sludge at the bottom of the UST with little success, the tank was filled with sand grout slurry to grade.

UST #2 - 12,000 gallon

UST #2 was located adjacent to UST #1, but sufficiently remote from the loading dock and other structures to allow its removal in May 1995. It, like UST #1, was used previously for the storage of Bunker C fuel oil.

Leaking Underground Fuel Storage Tank Program

It is reported that approximately 2500 gallons of product was removed from the tank in preparation for closure. However, prior to acceptance by the TSDF, chemical profiling revealed the presence in the product of 27 mg/kg PCBs. Sludge from the bottom of the tank was also tested and found to contain PCBs at a concentration of 8 mg/kg. Consequently, the removed product was transported as a hazardous waste under manifest to Fuel Oil Processors, Portland, Oregon for eventual incineration.

The dimensions of the resultant UST excavation were a reported 35 x 13 x 11 feet in depth. Encountered subsurface materials consisted of highly fractured sandstone and serpentine bedrock, and silty sand and gravel fill materials.

Inspection of the tank after removal revealed an absence of obvious signs of holes or discharges. This tank was reportedly transported to Phillips-Burlington Environmental, a TSDF located in Washougal, Washington.

Laboratory report sheets indicate all soil samples collected from the excavation were below detection limits for TPH-D, BTEX and PCBs, as were all stockpile samples. Stockpiled soil was used as partial backfill, augmented with ~90 yds³ of clean import.

UST #3 - 1000 gallon

This tank, formerly used for storage of diesel fuel for emergency generators and located near USTs #1 and 2, adjacent to the campus Power House, was removed during July 1993.

In preparation for closure, a reported 350 gallons of product was removed from the tank and transported to Gibson Oil/Pilot Petroleum, Richmond, CA, for treatment.

Inspection of the UST after removal revealed the presence of at least one throughgoing hole. Slight HC odors were noted in sediments encountered below the tank. The tank was transported to Erickson Environmental, Inc., Richmond, CA, for decommissioning.

Three (3) soil samples were collected from the excavation: two (S-2 and -3) at the base of the excavation at an approximate depth of 10' BG, and one (S-1) below the product supply and return piping at the west end of the excavation, at a depth of ~ 2½' BG. Up to 12,000 mg/kg TPH-D (S-2) and 0.005 mg/kg toluene (S-1) were detected.

The dimensions of the resultant excavation measured 7 x 13 x 8½ feet deep, was backfilled with clean base rock import, and capped with asphalt paving. Approximately 22 yds³ of moderately-impacted soil were transported to the BFI Livermore facility for disposal.

Leaking Underground Fuel Storage Tank Program

UST #4 - 1000 gallon

This tank was formerly used to store diesel fuel for an emergency generator located several hundred feet south of the UST #1/2/3 cluster.

In preparation for its May 1995 closure, approximately 100 gallons of product was removed from the tank and commingled with that removed from UST #2. Because of the presence of PCBs in product removed from UST #2, all was eventually transported to Fuel Oil Processors, Portland, OR, for incineration.

Inspection of the tank after removal indicated it was in good condition with no throughgoing holes evident. The tank was transported to Erickson Environmental, Inc., Richmond, CA, for decommissioning.

Apparent "perched" water entered the excavation from below the adjoining building foundation. After pumping ~10 gallons from the excavation, no other water entered, indicating it was not ground water. Prior to its removal, a water sample was nevertheless collected and analyzed for TPH-D as a precaution with a result of 1900 ug/l in the TPH-D range.

Two (2) soil samples were collected from each end of the concrete hold down pad at the base of the excavation. TPH-D and BTEX were not detected in either soil sample.

The dimensions of the resultant excavation were 12 x 7 x 5 feet deep. Encountered material was predominantly alternating layers of sand and clay. The excavation was backfilled with imported gravel and covered with native materials from elsewhere at the site. Stockpiled soil (~ 15 yds³), because impacted with low levels of HCs, was transported to Vasco Road Landfill, Livermore, CA, for disposal.

UST #5 - 500 gallon

This tank was formerly used to store leaded gasoline, and served a dispenser located at grade, both located near the campus Power House.

In preparation for closure, approximately 350 gallons of product was removed from the tank and transported to Gibson Oil/Pilot Petroleum, Redwood City, CA.

Inspection of the tank after removal indicated it was in good condition with no throughgoing holes evident. The tank was transported to Erickson Environmental, Inc., Richmond, CA, for decommissioning.

A single soil sample (S-1) was collected from the base of the excavation at an approximate depth of 6½' BG, and analyzed for the presence of TPH-G, BTEX and total Pb. Only Pb was identified in the collected sample at a concentration of 8.8 mg/kg, within the expected geogenic range.

Leaking Underground Fuel Storage Tank Program

Dimensions of the resultant excavation measured 6 x 11 x 5½ feet deep. The pit was backfilled with both imported aggregate baserock and clean material derived from elsewhere on-site. Excavated material (~ 6 yds³) was eventually transported to BFI, Livermore, CA, for disposal because of detectable concentrations of toluene, xylenes, and total Pb.

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Undetermined

Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Undetermined

Does corrective action protect public health for current land use? YES
Site management requirements: NA

Should corrective action be reviewed if land use changes? YES

Monitoring wells Decommissioned: NA

Number Decommissioned: NA Number Retained: NA


List enforcement actions taken: NONE

List enforcement actions rescinded: NONE

V. LOCAL AGENCY REPRESENTATIVE DATA

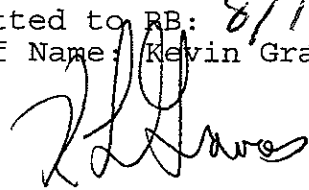
Name: Scott Seery Title: Sr. Haz Mat Specialist
Signature:  Date: 7/15/96

Reviewed by
Name: Jennifer Eberle Title: Haz Mat Specialist
Signature:  Date: 7-15-96

Name: Tom Peacock Title: Supervising Haz Mat Specialist
Signature:  Date: 8-1-96

VI. RWQCB NOTIFICATION

Date Submitted to RB: 8/1/96 RB Response: 
RWQCB Staff Name: Kevin Graves Title: San. Eng Assoc. Date: 8/19/96





Leaking Underground Fuel Storage Tank Program

VII. ADDITIONAL COMMENTS, DATA, ETC.

This site lies within the Hayward fault zone, at the base of Fairmont Ridge. Two traces ("western" and "eastern" traces) of the fault have been mapped through this site. Consequently, highly-indurated subsurface materials encountered often exhibit evidence of deformation and shearing; vertical fracturing of shallow bedrock is common. All subject tanks were/are located west of the western-most fault trace. USTs #1, 2, 3 and 5 are/were located in an area where mapped shallow bedrock is covered predominantly with a relatively thin soil mantle; UST #4 is located in an area where bedrock is expected at moderate depths with alluvium cover up to ~ 30' (1988 Gregg & Assoc., Inc. report).

During June and July 1988, several soil borings were emplaced about USTs #1, 2, and 3 and adjacent above-ground tank (AST) to both assess soil conditions, and, in the case of tanks 1 and 2, to install compliance vadose zone monitoring wells. Borings/vadose wells FHB-1, -2, and -3 were drilled/installed adjacent to tanks 1 and 2 to depths between 15 and 17' BG. Borings FH-2, -3, and -4 were drilled adjacent to tank 3. Boring FH-1 was drilled adjacent to the AST. Borings FH-1 through FH-4 were drilled to depths between 15 and 32' BG. Bedrock was encountered at depths between 9 - 25' in borings FH-2, -3, and -4. Bedrock was not encountered in boring FH-1 to the depth explored (32'). Ground water was not encountered in any of the borings.

Up to 166 mg/kg oil and grease (418.1) was discovered at the 17' depth in boring FHB-1 drilled at the west end of UST #1, between it and the Power House. All other samples failed to identify detectable concentrations of target compounds (e.g., oil & grease [503E], TPH-D).

During April 1993, three additional borings (SB-1, -2, and -3) were advanced around UST #1 in an attempt to corroborate the 1988 findings. Borings were drilled to depths of between 21½ and 24½' BG. Shallow bedrock was encountered between 6 - 8' BG. Ground water was not encountered in any of the borings.

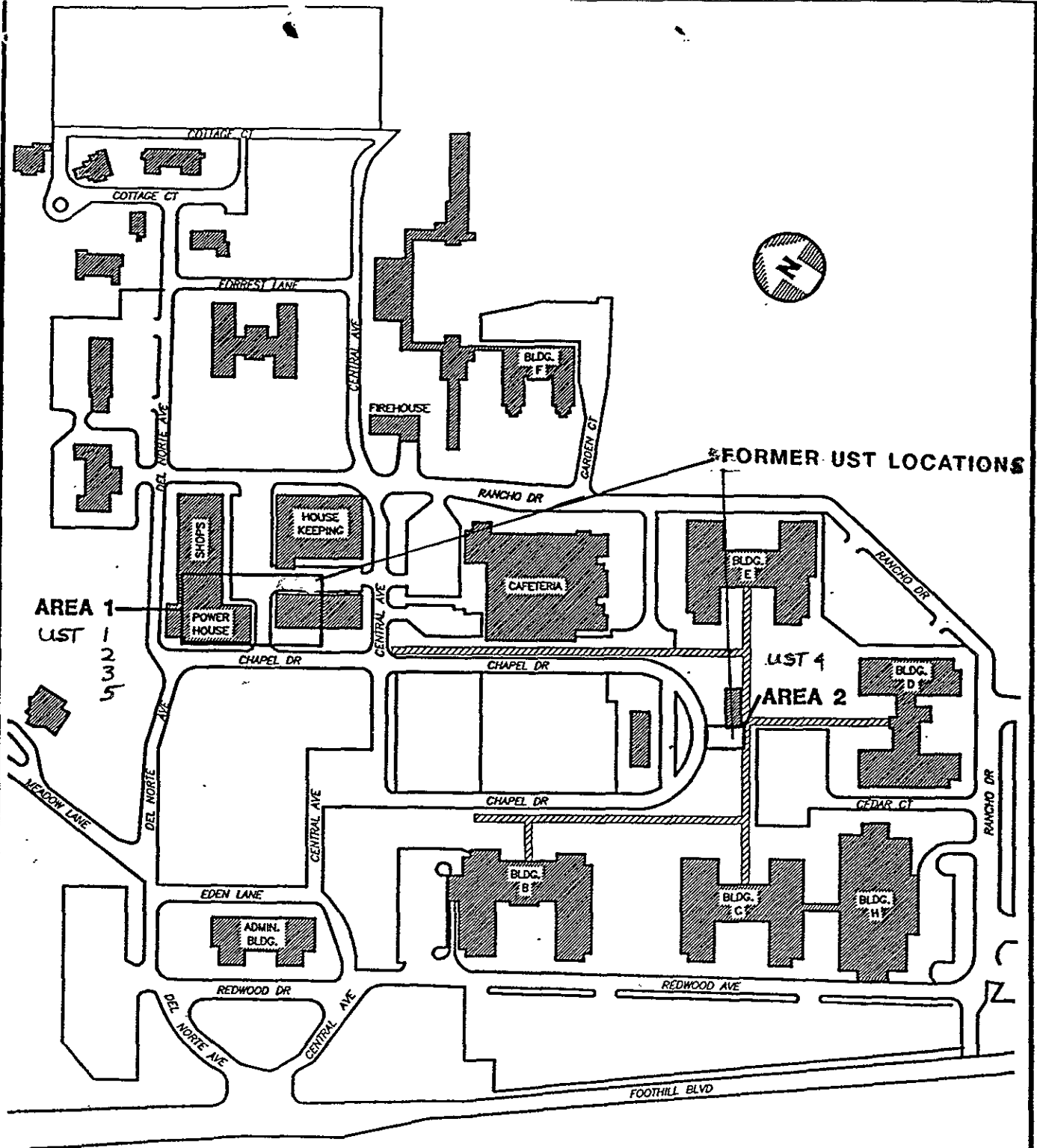
Soil samples were collected at 5 foot intervals and analyzed for the presence of TPH-D and BTEX. No detectable concentrations of fuel compounds were discovered in any of the samples, including those samples collected from boring SB-2, advanced directly adjacent to boring FHB-1 where up to 166 mg/kg oil and grease was identified during the 1988 study.

During April 1994, five additional borings were advanced around the former location of UST #3 to evaluate the extent of contamination identified during the closure of this tank. Four of the borings were drilled to depths of up to 16½' BG, terminating in fractured bedrock initially encountered at depths between 4 and 7½' BG. Boring SB-4 was drilled to a depth of only 2' BG when an abandoned product piping was encountered. Ground water was not encountered in any of the boreholes.

Leaking Underground Fuel Storage Tank Program

Of the target compounds sought (TPH-D, BTEX), only xylenes were detected in samples collected from boring SB-2, -3 and -5 at concentrations just above the reported laboratory detection limit of 0.005 mg/kg.

Clearly, the few releases from the subject tanks which have been discovered are limited in extent, both laterally and vertically. Contaminants which have been found were, by and large, in the "heavier" end of the hydrocarbon range (e.g., TPH-D range or longer). Bedrock was encountered at shallow depth where exploratory boreholes were advanced. Ground water was not encountered at anytime during UST closures or during subsequent invasive assessment activities.



SCALE: 1" = 200'



Environmental
Science &
Engineering, Inc.

4090 NELSON AVENUE, SUITE J
CONCORD, CA 94520

DATE
4/93

DRAWN BY
DWR

APPROVED BY

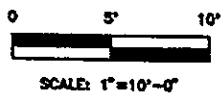
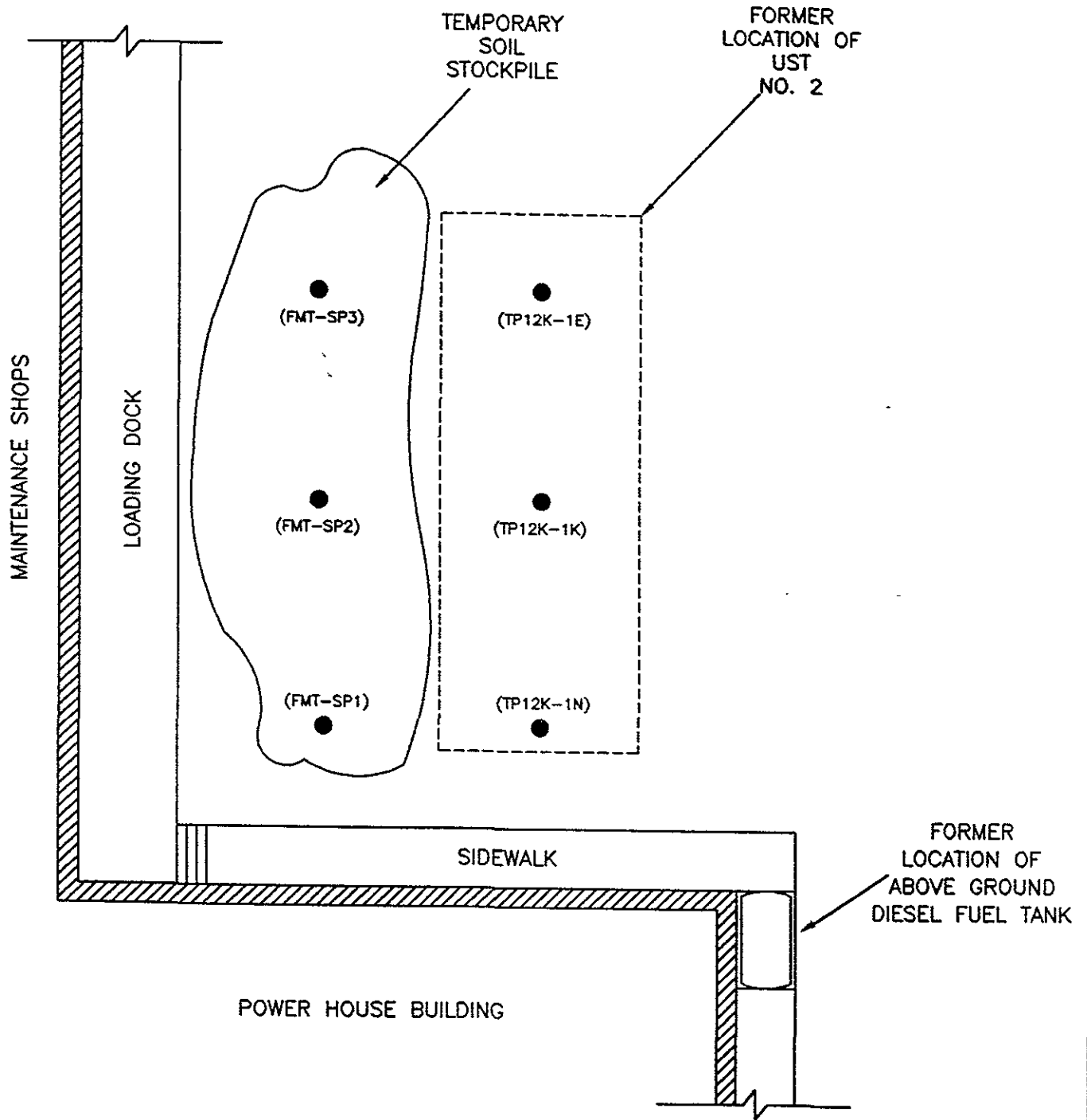
PROJ. NO.
6-93-5026

CAD FILE
50261002

REVISED

ALAMEDA COUNTY GSA
FAIRMONT HOSPITAL
SAN LEANDRO, CALIFORNIA

FIGURE 2
SITE MAP

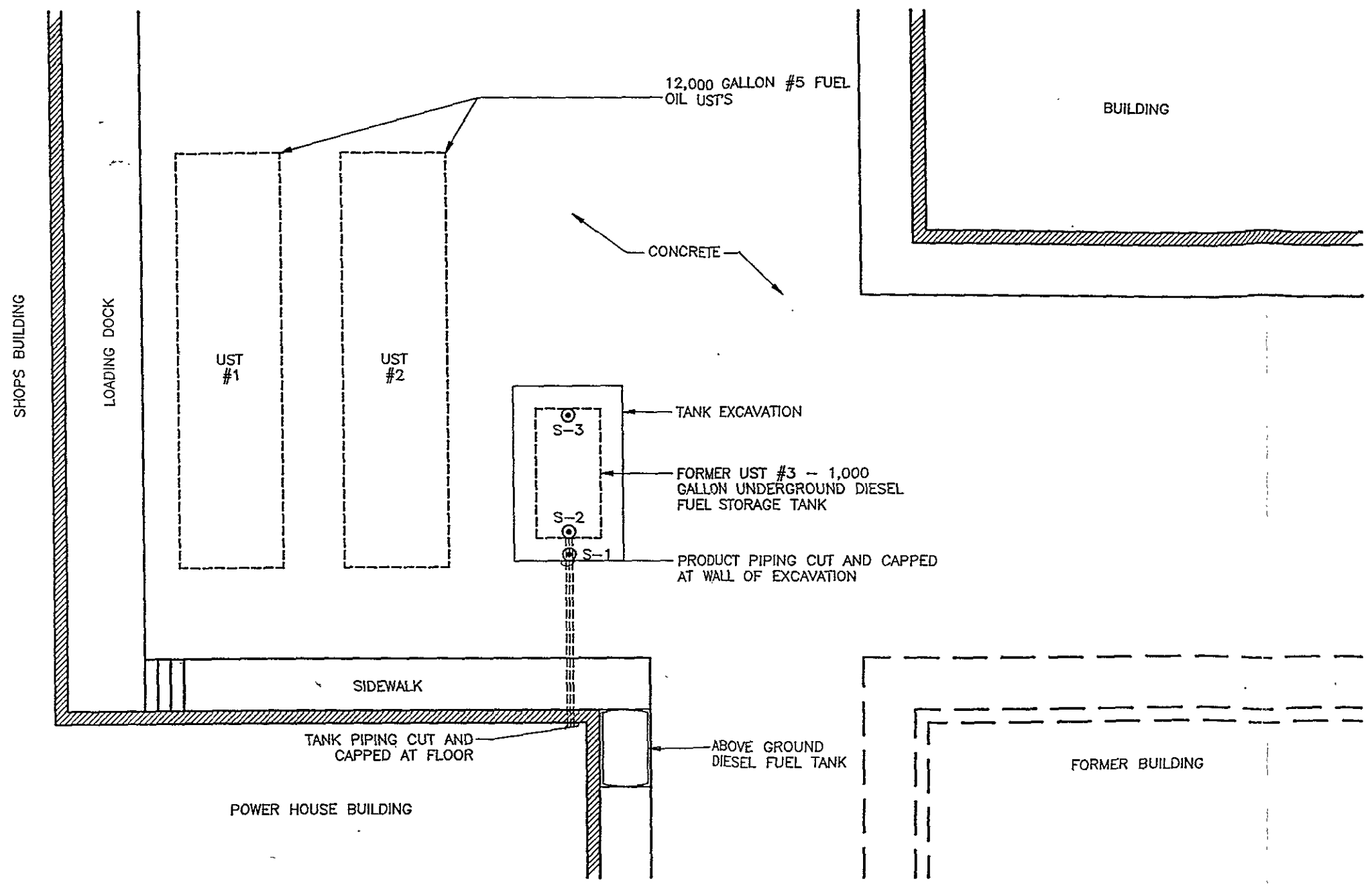


LEGEND

● SOIL SAMPLE LOCATIONS AND DESIGNATIONS
 (TP12K-1N)

FIGURE: 3
SITE PLAN AND
SOIL SAMPLE LOCATION MAP
FORMER UST NO. 2






LEGEND

- UST UNDERGROUND STORAGE TANK
- ⊙ SOIL SAMPLE



 Environmental Science & Engineering, Inc. <small>A CILCORP Company</small>	DATE 7/93	TANK PLAN	FIGURE NO. 3
	REVISED 9/93		ALAMEDA COUNTY GSA - FAIRMONT HOSPITAL 15401 FOOTHILL BOULEVARD SAN LEANDRO, CALIFORNIA
	4090 NELSON AVENUE, SUITE J CONCORD, CA 94520	CAD FILE 50571003	

CAPPED FUEL
PRODUCT LINE

(TP1K-1S)

COVERED WALKWAY

GENERATOR HOUSE

TEMPORARY
SOIL
STOCKPILE

(SP1K-1)

(TP1K-1N)

FORMER
LOCATION OF
UST NO. 4

TRANSFORMERS

SIDEWALK

OPEN
FIELD

SIDEWALK

SERVICE ROAD

SIDEWALK



SCALE: 1"=10'-0"

LEGEND

●
(TP1K-1N)

SOIL SAMPLE LOCATIONS
AND DESIGNATIONS

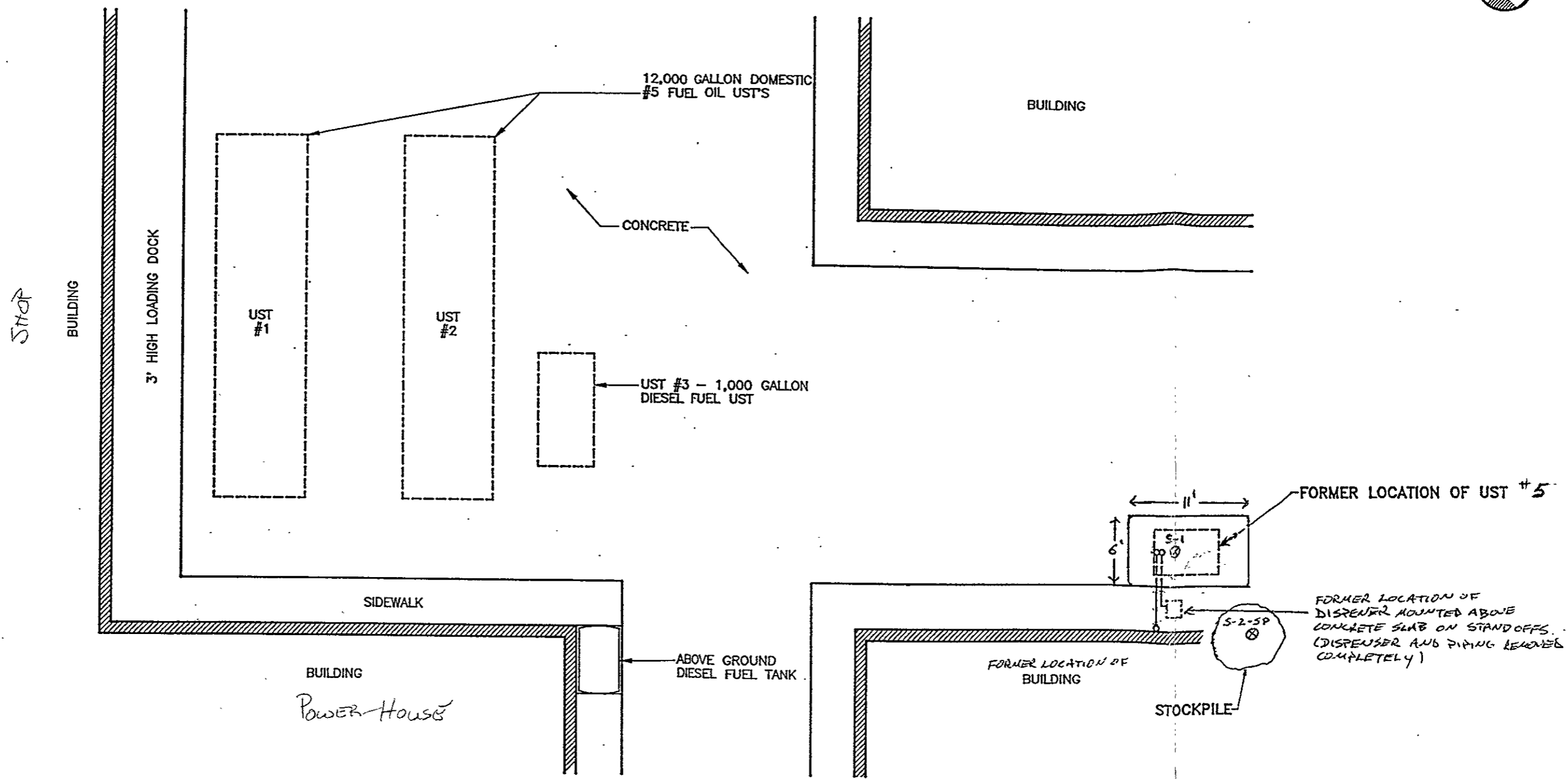
—x—x—

FENCE

FIGURE: 4

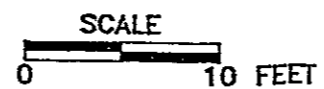
**SITE PLAN AND
SOIL SAMPLE LOCATION MAP
FORMER UST NO. 4**

Versar INC.



LEGEND

- UST UNDERGROUND STORAGE TANK
- S-1 SOIL SAMPLE



	DATE	PROJ. NO.	ALAMEDA CTY. GSA - FAIRMONT HOSPITAL 15401 FOOTHILL BOULEVARD SAN LEANDRO, CALIFORNIA
	1/93	93-C-036	
4090 NELSON AVENUE, SUITE J CONCORD, CA 94520	DRAWN BY	CAD FILE	FIGURE 3 TANK PLAN
	CVS	C0361001	
	APPROVED BY	REVISED	

SITE CHARACTERIZATION REPORT

**FAIRMONT HOSPITAL
SAN LEANDRO, CALIFORNIA**

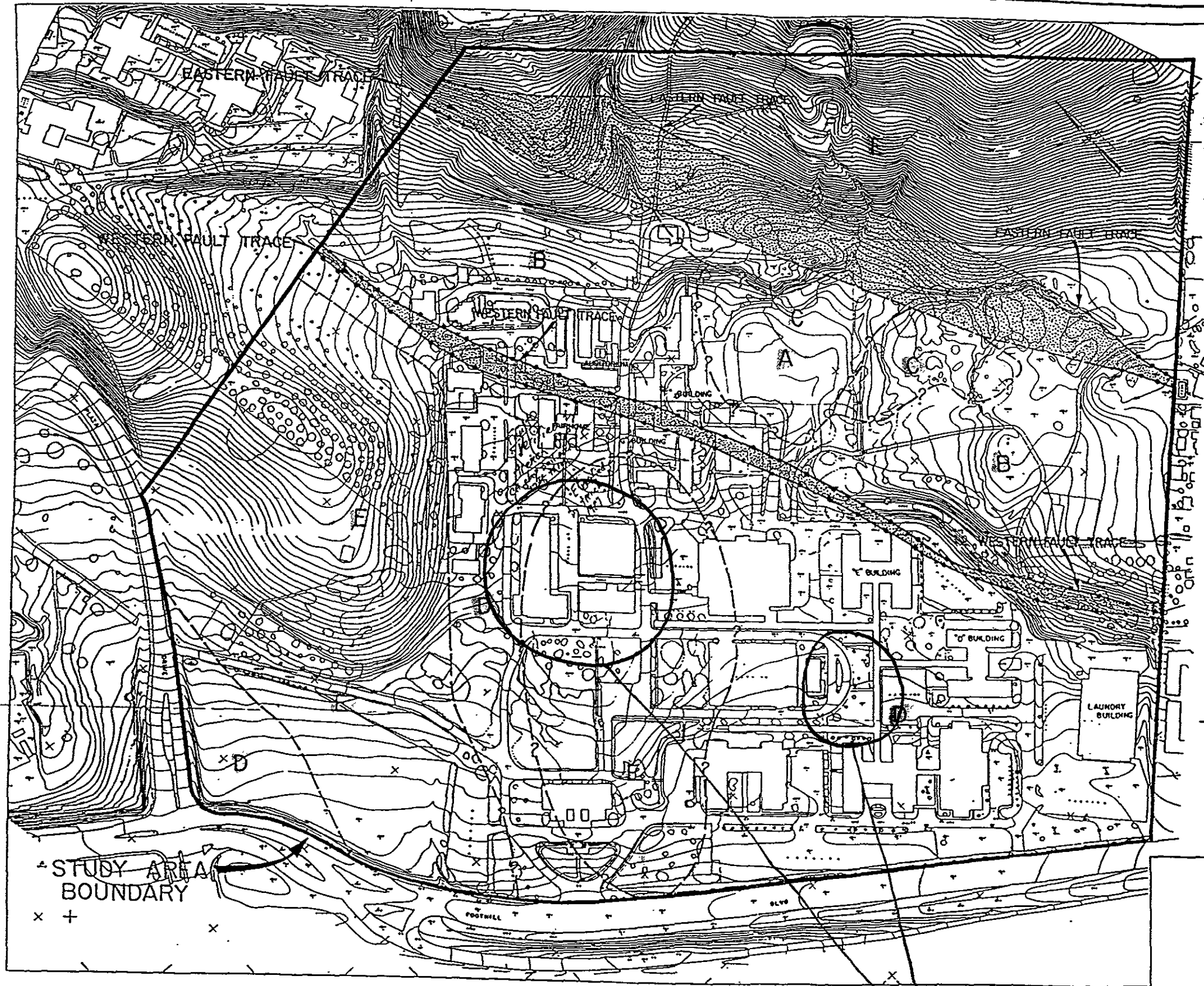
Prepared For

**COUNTY OF ALAMEDA
General Services Agency
Building Maintenance Department
4400 MacArthur Boulevard
Oakland, California 94619
(415) 530-9660**

Prepared By

**GREGG & ASSOCIATES, INC.
597 Center Avenue, Suite 350
Martinez, CA 94553
(415) 372-3637**

August 1988



EXPLANATION

- A** ALLUVIUM AND SHALLOW GROUNDWATER.
- B** ALLUVIUM FILLING NATURAL BEDROCK DEPRESSION; LOCALLY SHALLOW GROUNDWATER.
- C** MAN-MADE FILL.
- D** ALLUVIUM WITH BEDROCK AT SHALLOW DEPTH (<30 FEET).
- E** BEDROCK COVERED WITH SOIL 1 TO 5 FEET THICK

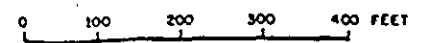
LIMITS BASED ON HIGH LEVEL OF CONFIDENCE

LIMITS BASED ON LOW LEVEL OF CONFIDENCE

LIMITS WITHIN WHICH ACTIVE FAULT TRACES ARE LOCATED. WIDTHS ARE BASED ON EXPLORATORY TRENCHES, BORINGS, GEOLOGIC RECONNAISSANCE, AND LEVELS OF CONFIDENCE IN LOCATING THE FAULTS.

NOTE: THE GEOLOGIC UNITS (A-E) AND THEIR LIMITS ARE GENERALIZED FROM EXPLORATORY TRENCHING AND BORING DATA AND SHOULD NOT BE USED AS A SUBSTITUTE FOR SITE-SPECIFIC STUDIES.

TOPOGRAPHIC MAP BY HAMMON, JENSEN & WALLER, MAPPING AND FORESTRY SERVICES, OAKLAND, CA. (JAN 1969).



CONTOUR INTERVAL: 2 FEET

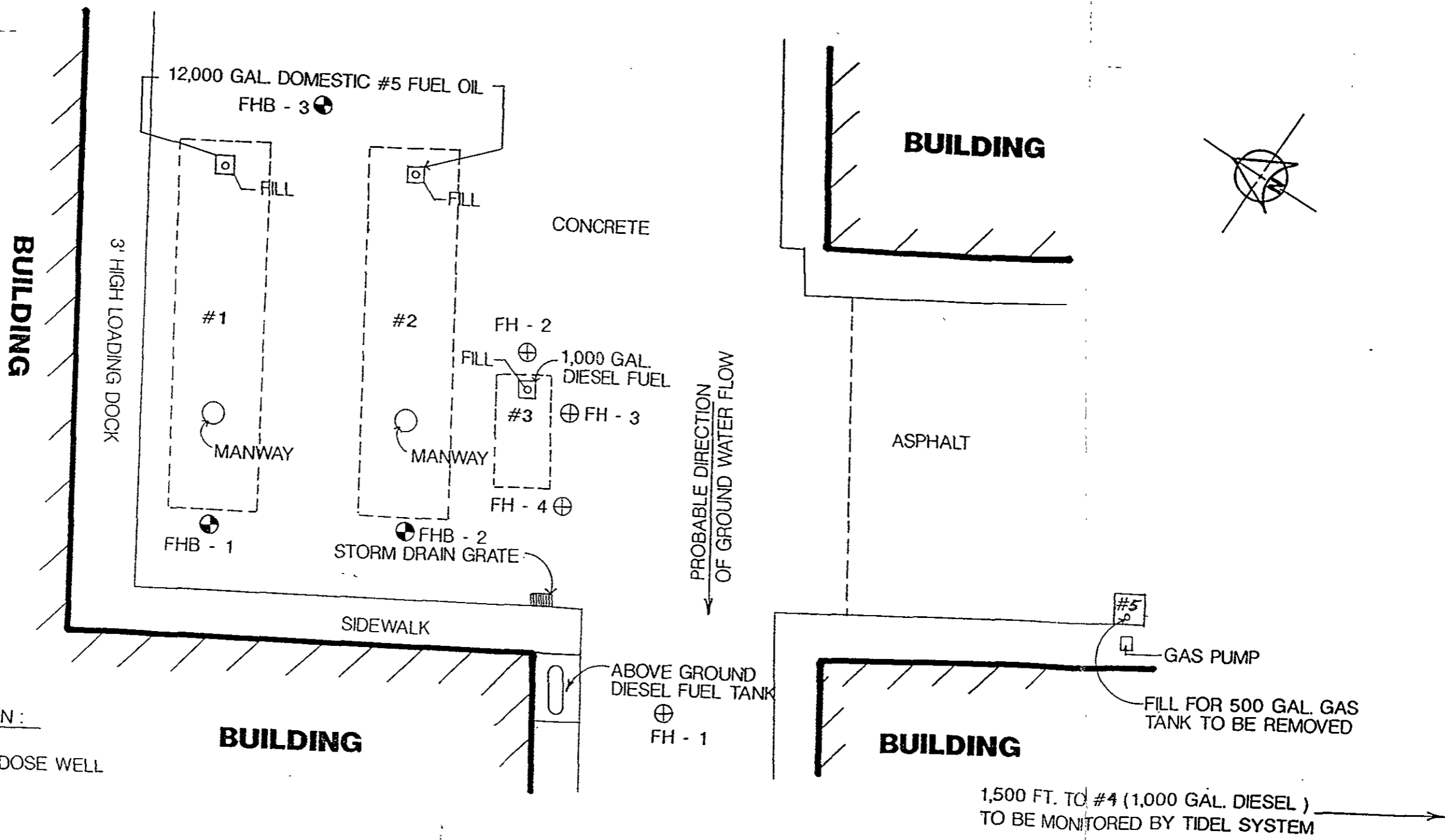
GENERALIZED GEOLOGIC CONDITIONS FAIRMONT HOSPITAL SITE Fairmont Hospital-Juvenile Hall San Leandro, California	
Project No. 14162 Woodward-Clyde Consultants	Figure 8

Figure 3
 GENERALIZED GEOLOGIC CONDITIONS AT
 FAIRMONT HOSPITAL IN ALAMEDA COUNTY

A HUNTER ENVIRONMENTAL
 SERVICES, INC. COMPANY
 GREGG & ASSOCIATES, INC.
 597 Center Avenue, Suite 350
 Martinez, California 94553
 (415) 372-3637

TANK AREAS

EXPLANATION:
 ⊕ SOIL BORING
 ⊙ BACKFILL VADOSE WELL



SCALE: 1" = 10'

A HUNTER ENVIRONMENTAL SERVICES, INC. COMPANY
 GREGG & ASSOCIATES, INC.
 597 Center Avenue, Suite 350
 Martinez, California 94553
 (415) 372-3637

Figure 4
 BORING LOCATIONS AT FAIRMONT HOSPITAL
 IN ALAMEDA COUNTY, CALIFORNIA

ATTACHMENT B
BORING LOGS



**Environmental
Science &
Engineering, Inc.**

**BORING LOG AND
WELL COMPLETION SUMMARY**

SB-1

WELL COMPLETION

Completion Depth: N/A

Size/Type From To

Casing:
Screen:
Filter:
Seal:

Well Cap or Box:

Project Name: Alameda County Project No: 6-93-5021

General Services Agency

Fairmont Hospital

Location: 15401 Foothill Boulevard
San Leandro, California

Driller: Soils Exploration Services, Inc.

Method: Hollow Stem Auger-CME 75

Hole Diameter: 7 7/8" O.D. Total Depth: 21.5 Feet

Ref. Elevations: NA

Logged By: Kerry Lefever

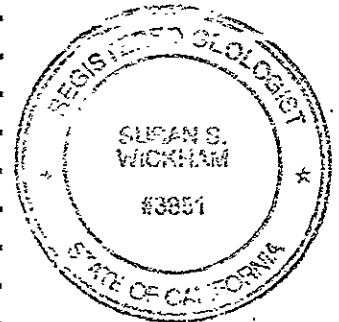
Page 1 of 1

Dates:

Start: 4-21-93

Finish: 4-21-93

Depth (ft)	Lithologic Description	USC	Graphic Log			Vapor	Remarks Water, drilling/completion, summary, sample type
			Sample/Blows	Lithology	Well Installation		
0	Concrete @ Surface 6"						Time: Hand auger to 4.5 Feet 1150 Drill @ 1240
	CLAYEY SAND with gravel; dark brown, slightly moist, angular pebbles to 2 inches in diameter.	GC					
	CLAY; black to green, moderate plasticity, soft, slightly moist.	CL					
	GRAVELLY SAND; brown to gray, medium to coarse grained, poorly graded, angular pebbles to 2 inches; dry.	SM					
5	Weathered gabbro, silty-sandy gravel, brown to dark gray, pieces to 1 inch.		15 18 23			4	Sample @ 5.0 Feet 1255 Hard Drilling
		GM					
10	As above, weathered gabbro with medium to coarse-grained sand matrix, slightly moist.		22 47 37			4	Sample @ 10.0 Feet 1305
15	As above.		35 50			4	Sample @ 15 Feet 1310 Hnu downhole = 0
20	As above, weathered, fractured gabbro, serpentine, mica grains, course grained matrix.		8 10 20			4	Harder drilling @ 19.5 Feet Sample @ 20 Feet Hnu downhole = 0 Total Depth: 21.5 Feet (sampler) Auger refusal 20 Feet Pushed sampler from 20 to 21.5 Feet





**Environmental
Science &
Engineering, Inc.**

**BORING LOG AND
WELL COMPLETION SUMMARY**

SB-2

WELL COMPLETION

Completion Depth: N/A

Size/Type _____ From _____ To _____

Casing:
Screen:
Filter:
Seal:

Well Cap or Box:

Project Name: Alameda County Project No: 6-93-5021

General Services Agency
Fairmont Hospital

Location: 15401 Foothill Boulevard
San Leandro, California

Driller: Soils Exploration Services, Inc.

Method: Hollow Stem Auger-CME 75

Hole Diameter: 7 7/8" O.D. Total Depth: 24.5 Feet

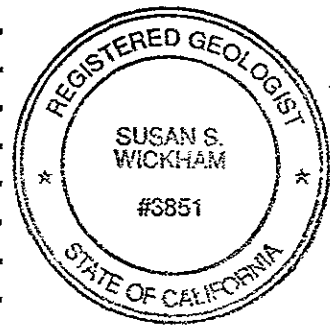
Ref. Elevations: NA

Logged By: Kerry Lefever

Page 1 of 1

Dates:
Start: 4-21-93
Finish: 4-21-93

Depth (ft)	Lithologic Description	USC	Graphic Log			Vapor	Remarks
			Sample/Blows	Lithology	Well Installation		
0	Concrete @ Surface 6" CLAYEY SAND with gravel; dark brown, slightly moist.	GC					Hand auger to 5 Feet Drill easy
5	GRAVELLY SANDY CLAY; medium brown, slightly moist, medium to coarse grained sand.	CL					
5	Weathered gabbro, brown grey, silty gravelly sand, slightly moist.		10 16 14			5	Sample @ 5.0 Feet Hnu downhole = 0
10	As above, weathered gabbro, grey to greenish grey, silty gravelly sand.		16 27 30			4	Sample @ 10.0 Feet Hnu downhole = 0 Hard drilling @ 13 Feet
15	As above, weathered gabbro, courser grained.	SM	19 24 21			4	Sample @ 15 Feet Hnu downhole = 0 Loosened @ 18 Feet
20	As above, weathered gabbro, greenish grey to black, silty sandy gravel.		9 8 10			4	Sample @ 20 Feet
	As above, decomposed bedrock, gravel, less matrix	GM	11 13 13				Sample @ 23 Feet Auger refusal 23 Feet Pushed sampler from 23 to 24.5 Feet Total Depth: 24.5 Feet (sampler)
25							





**Environmental
Science &
Engineering, Inc.**

**BORING LOG AND
WELL COMPLETION SUMMARY**

SB-3

WELL COMPLETION

Completion Depth: N/A

Size/Type _____ From _____ To _____

Casing:
Screen:
Filter:
Seal:

Well Cap or Box:

Project Name: Alameda County Project No: 6-93-5021

General Services Agency

Fairmont Hospital

Location: 15401 Foothill Boulevard

San Leandro, California

Driller: Soils Exploration Services, Inc.

Method: Hollow Stem Auger-CME 75

Hole Diameter: 7 7/8" O.D. Total Depth: 21.5 Feet

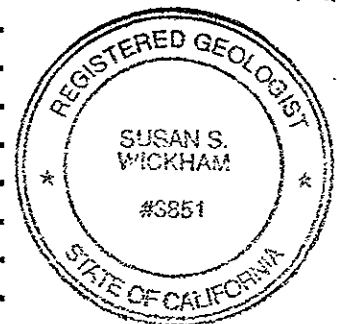
Ref. Elevations: NA

Logged By: Kerry Lefever

Page 1 of 1

Dates:
Start: 4-21-83
Finish: 4-21-83

Depth (ft)	Lithologic Description	USC	Graphic Log			Vapor	Remarks
			Sample/Blows	Lithology	Well Installation		
0	Concrete @ Surface 6"						Time: 920
	CLAYEY SAND with gravel; dark brown, slightly moist.	GC					Hand auger to 5 Feet Drill easy
	GRAVELLY SILTY SAND; medium brown, slightly moist, medium to coarse grained sand.	SM					
5	CLAYEY SILTY SAND; medium brown to red brown with gravel, angular pieces to 1", fine to medium grained sand, slightly moist.		1 3 7			6	Sample @ 5.0 Feet 1035 Hnu downhole = 0
	Weathered gabbro, silty sandy gravel, brown to dark grey, angular pieces to 1" in diameter, slightly moist.						
10		GM	11 18 15			4	Sample @ 10.0 Feet 1047 Hnu downhole = 0 Hard drilling @ 13 Feet
15	As above, weathered gabbro, silty sandy gravel.		20 50 FOR 5'			4	Sample @ 15 Feet 1105 Hnu downhole = 0 Loosened @ 18 Feet
20	As above, weathered gabbro, grey to dark grey, silty sandy gravel.		17 29 50 FOR 6'			4	Sample @ 20 Feet 1125 Auger refusal 20 Feet Pushed sampler from 20 to 21.5 Feet Total Depth: 21.5 Feet (sampler)
25							





SUBSURFACE SOIL INVESTIGATION

Fairmont Hospital
15400 Foothill Boulevard
San Leandro, California

Prepared for:

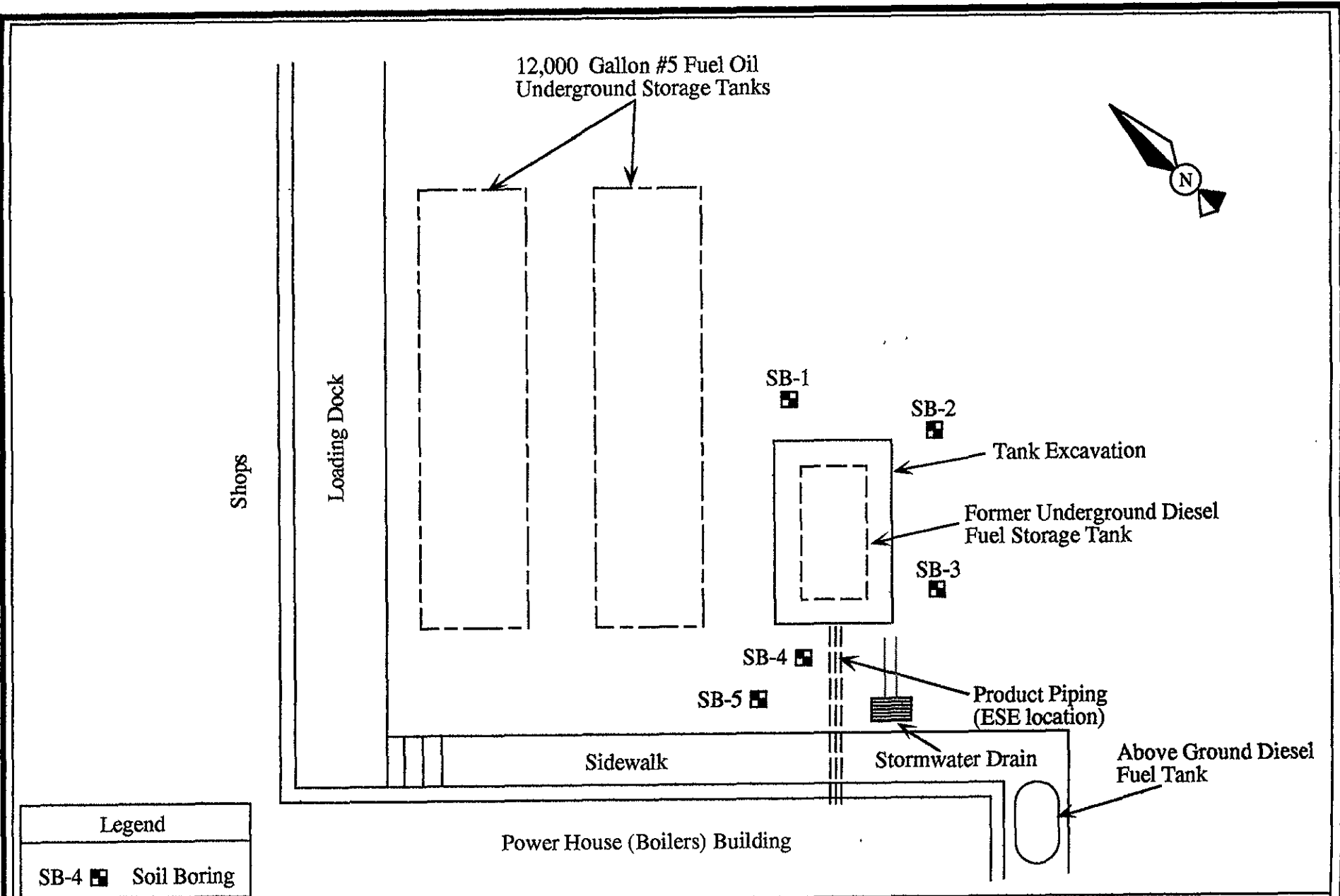
ALAMEDA COUNTY
GENERAL SERVICES AGENCY
4400 MacArthur Boulevard
Oakland, California 94619

Prepared by:

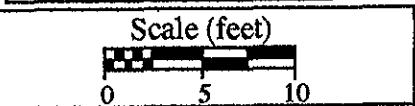
VERSAR, INC.
1255 Harbor Bay Parkway, Suite 100
Alameda, California 94502

Versar Project No. 2241-016

May 24, 1994



Legend	
SB-4	Soil Boring



Project No. 2241-016

Soil Boring Location Map

Fairmont Hospital
San Leandro, California

Figure 2

Versar, Inc.



TABLE 1
LABORATORY ANALYTICAL RESULTS FOR ORGANICS

Fairmont Hospital
San Leandro, California

Sample ID	Sample Date	Sample Depth (feet)	TPH-D ¹	Benzene ²	Toluene ²	Ethylbenzene ²	Xylenes ²
SB-1-8	04/21/94	8.0 - 9.0	< 10 ³	< 0.005	< 0.005	< 0.005	< 0.005
SB-1-11	04/21/94	11.0 - 11.5	< 10	< 0.005	< 0.005	< 0.005	< 0.005
SB-2-11.5	04/21/94	11.0 - 11.5	< 10	< 0.005	< 0.005	< 0.005	0.015
SB-2-13	04/21/94	13.0	< 10	< 0.005	< 0.005	< 0.005	0.012
SB-3-10	04/22/94	9.0 - 10.5	< 10	< 0.005	< 0.005	< 0.005	0.021
SB-3-11	04/22/94	11.0 - 11.5	< 10	< 0.005	< 0.005	< 0.005	0.023
SB-5-12	04/22/94	11.0 - 12.5	< 10	< 0.005	< 0.005	< 0.005	0.010
SB-5-14	04/22/94	13.0 - 14.5	< 10	< 0.005	< 0.005	< 0.005	< 0.005
SB-5-16	04/22/94	15.0 - 16.5	< 10	< 0.005	< 0.005	< 0.005	0.028

All results expressed in milligrams per kilogram

¹ Total Petroleum Hydrocarbons as Diesel by EPA Method 3350/8015M

² BTEX by EPA Method 8020

³ Less than detection limit

APPENDIX A

Drilling Logs

Versar Inc.		DRILLING LOG		PROJECT NO. <u>2241-016</u>	
Supervising Geologist: M. Sellens			Site Name: Fairmont Hospital		
Log By: John Russell			Boring No: SB-1		
Date: 4/21/94			Boring Diameter: 8 - inches		
Drilling Contractor: Turner Exploration			Boring Depth: 11.5 feet		
Contractor Lic. No. C-57 #602720			Boring Location: See Figure		
Rig Type: Mobile Drill B-34					
Driller: Guy Cabral					

Depth (ft)	Advanced/Recovered	Blow Counts	First Water/ Water Table	Well Construction	USCS Group	Lithology	USCS SOIL DESCRIPTION SOIL CONDITION AND GEOLOGIC INTERPRETATION		Headspace (ppm)
							SOIL TYPE, ROUNDING, SORTING, PERCENT: GRAVEL, SANDS, FINES COLOR, MOISTURE, DENSITY, SECONDARY POROSITY, ODORS, STAINING GEOLOGY: FILL, ALLUVIUM, BEDROCK		
1							0.0' - 0.5' Concrete. 0.5' - 2.5' Silty sand, moist, dense, no hydrocarbon odor or staining.	1.0' - 0	
2									
3							2.5' - 4.5' Same as above.		
4									
5	X	23					4.5' - 5.5' Grey silty sand, moist, very dense, no hydrocarbon odor or staining, weathered bedrock.	4.5' - 0	
6	X	37					5.5' - 6.0' Same as above.	5.5' - 0	
7	X	50					6.0' - 8.0' Fractured metamorphic bedrock, greenstone, no hydrocarbon odor or staining.		
8									
9	X	33					8.0' - 11.5' Same as above. Boring terminated at 11.5'. SPT sampler.	8.5' - NA	
10									
11	X	50					SPT sampler	10.5' - 0	

Versar Inc.		DRILLING LOG		PROJECT NO. <u>2241-016</u>	
Supervising Geologist: M. Sellens			Site Name: Fairmont Hospital		
Log By: John Russell			Boring No: SB-2		
Date: 4/21/94			Boring Diameter: 8 - inches		
Drilling Contractor: Turner Exploration			Boring Depth: 13.5 feet		
Contractor Lic. No. C-57 #602720			Boring Location: See Figure		
Rig Type: Mobile Drill B-53					
Driller: Guy Cabral					

Depth (ft)	Advanced/Recovered	Blow Counts	First Water/ Water Table	Well Construction	USCS Group	Lithology	USCS SOIL DESCRIPTION SOIL CONDITION AND GEOLOGIC INTERPRETATION		Headspace (ppm)
							SOIL TYPE, ROUNDING, SORTING, PERCENT: GRAVEL, SANDS, FINES COLOR, MOISTURE, DENSITY, SECONDARY POROSITY, ODORS, STAINING GEOLOGY: FILL, ALLUVIUM, BEDROCK		
1							0.0' - 0.5' Concrete. 0.5' - 4.0' Silty sand, fine grained sand, well graded, brown, moist, very dense, no hydrocarbon odor or staining, trace clay, some silt.		
2									
3									
4	X	7							
	X	26							
	X	21					4.0' - 6.0' Same as above.	4.0' - 0	
5								5.0' - 0	
6	X	17							
	X	26							
	X	37					6.0' - 7.5' Silty sand, fine grained sand, trace clay, some silt, metamorphic rock fragments up to 3 centimeters diameter, brown, moist, very dense, no hydrocarbon odor.	6.5' - 0	
7									
	X	33							
	X	40	1"				7.5' - 9.0' Metamorphic rock - greenstone, fractured, very dense, no hydrocarbon odor or staining.	7.5' - 0	
8									
9									
	X	30					9.0' - 11.0' Same as above. SPT Sampler.		
10	X	40						9.5' - NA	
	X	35							
11							11.0' - 13.0' Same as above. SPT Sampler.	11.0' - NA	

Versar Inc.		DRILLING LOG			PROJECT NO. 2241-016				
Supervising Geologist: M. Sellens				Site Name: Fairmont Hospital					
Log By: John Russell				Boring No: SB-3					
Date: 4/22/94				Boring Diameter: 8 - inches					
Drilling Contractor: Turner Exploration				Boring Depth: 11.5 feet					
Contractor Lic. No. C-57 #602720				Boring Location: See Figure					
Rig Type: Mobile Drill B-53									
Driller: Guy Cabral									
Depth (ft)	Advanced/Recovered	Blow Counts	First Water/ Water Table	Well Construction	USCS Group	Lithology	USCS SOIL DESCRIPTION SOIL CONDITION AND GEOLOGIC INTERPRETATION		Headspace (ppm)
							SOIL TYPE, ROUNDING, SORTING, PERCENT: GRAVEL, SANDS, FINES COLOR, MOISTURE, DENSITY, SECONDARY POROSITY, ODORS, STAINING GEOLOGY: FILL, ALLUVIUM, BEDROCK		
1							0.0' - 0.5' Concrete. 0.5' - 4.0' Silty sand, well graded, little clay, no hydrocarbon odor or staining.		
2									
3									
4	X	8							
	X	17							
	X	28					4.0' - 6.0' Weathered metamorphic bedrock, weathered to brown silty sand, some clay, no hydrocarbon odor or staining.	4.0' - 0	
5									
	X	47							
	X	50/3"					5.5' - 7.5' Weathered metamorphic bedrock - greenstone, fractured, no hydrocarbon odor or staining. Composite sample from 5 - 6 feet. SPT Sampler.	5.0' - 0	
6									
7									
	X	33							
	X	38					7.5' - 9.5' Weathered metamorphic bedrock - greenstone with quartz, fractured, no hydrocarbon odor or staining. Composite sample from 7 - 8.5 feet. SPT Sampler.	7.5' - NA	
	X	50							
8									
	X	25							
	X	35					9.5' - 11.0' Weathered/fresh bedrock. Greenstone, fractured, but more competent than above rock. Not as weathered as above. No hydrocarbon odor or staining. Boring terminated at 11.5'. SPT Sampler.	9.5' - NA	
	X	37							
	X	35							
10									
	X	35					11.0' - 13.0' Same as above. SPT Sampler.	10.5' - NA	
	X	37							
11									
	X	37							

Versar Inc.		DRILLING LOG		PROJECT NO. 2241-016	
Supervising Geologist: M. Sellens			Site Name: Fairmont Hospital		
Log By: John Russell			Boring No: SB-4		
Date: 4/22/94			Boring Diameter: 8 - inches		
Drilling Contractor: Turner Exploration			Boring Depth: 2 feet		
Contractor Lic. No. C-57 #602720			Boring Location: See Figure		
Rig Type: Mobile Drill B-53					
Driller: Guy Cabral					

Depth (ft)	Advanced/Recovered	Blow Counts	First Water/ Water Table	Well Construction	USCS Group	Lithology	USCS SOIL DESCRIPTION SOIL CONDITION AND GEOLOGIC INTERPRETATION		Headspace (ppm)
							SOIL TYPE, ROUNDING, SORTING, PERCENT: GRAVEL, SANDS, FINES COLOR, MOISTURE, DENSITY, SECONDARY POROSITY, ODORS, STAINING GEOLOGY: FILL, ALLUVIUM, BEDROCK		
1							SB-4 was abandoned when piping was encountered at 2.0 feet.		
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									

GREGG & ASSOCIATES, INC.

LOG OF EXPLORATORY BORING

Field Location of Boring:

Project No.: 02-276-005

Date: 7-1-88

Boring # FH-1

Client: ALAMEDA CO.

Location: Fairmont Hospital

Sheet 1

Logged by: M. Marsden

Driller: GREGG

of 1

Drilling Method: B53 hollow stem auger

Hole Diam.: 8"

Installation Data: None

*A	*B	*C	*D	*E	*F	Water Level				
						Time				
						Date				
						DESCRIPTION				
0										@ 0' 6" thick concrete.
2					ML					@ 2' gravelly sandy clayey silt, brown, dry, moderately cohesive, no odor.
4					SM					@ 4' gravelly silt, sand, brown, dry, no odor.
					GM					@ 4.5' coarse gravel 3 to 3cm in diameter, matrix, silty sand, fine-grained; gabbro gravel.
6										@ 6' sandy silty gravel (1-2 cm), dry, no odor.
8					SC					@ 8' clayey silty very fine sand, brown, dry, moderately cohesive, no odor, some gravel.
10					GM					@ 10' silty gravel, no odor.
12										
14					SC					@ 13' gravelly, silty, fine sand, light brown, no odor. @ 14' silty fine sand, yellow brown, dry, no odor, some clay.
16										
18					GP					@ 17' silty sandy gravel, dry, no odor.
20					GP					@ 20' silty sandy gravel, dry, no odor.
22										
24					GP					@ 25' silty sandy gravel, brown, slightly moist, no odor.
26										@ 26' same, coarse gravel 2-3 cm.
28					GP					@ 28' same, finer gravel, 5-1 cm.
30										

*A - Depth; *B - Graphic Log; *C - BLOW/ft; *D - Vapor Concentration; *E - Sample Type and Depth; *F - Soil Group Symbol (U.S.C.S.); *WBR - Weathered Bedrock

GREGG & ASSOCIATES, INC.

LOG OF EXPLORATORY BORING

Field Location of Boring:

Project No.: 02-276-005

Date: 6-30-88

Boring # FH1

Client: ALAMEDA CO.

Location: Fairmont Hospital

Sheet 2
of 2


Logged by: M. Marsden

Driller: GREGG

Drilling Method: B53- hollow stem auger

Hole Diam.: 8"

Installation Data:

*A	*B	*C	*D	*E	*F	Water Level				
						Time				
						Date				
						DESCRIPTION				
30										
32										@ 32' gravel coarsens then fines
										@ 33' clayey gravel, brown, slightly moist, no odor.
34		125		ring at 34'						@ 34' auger refusal.
36										
38										
40										
42										
44										
46										
48										
50										
52										
54										
56										
58										
60										

*A - Depth; *B - Graphic Log; *C - BLOW/ft; *D - Vapor Concentration; *E - Sample Type and Depth;
*F - Soil Group Symbol (U.S.C.S.); *WBR - Weathered Bedrock

GREGG & ASSOCIATES, INC.

LOG OF EXPLORATORY BORING

Field Location of Boring:

Project No.: 02-276-005
 Client: ALAMEDA CO.
 Location: Fairmont Hospital
 Logged by: M. Marsden
 Drilling Method: B-53
 Installation Data: None

Date: 7-1-88

Driller: Gregg

Boring # FH-2

Sheet 1
 of 1

Hole Diam.: 8"

*A	*B	*C	*D	*E	*F	Water Level				
						Time				
						Date				
						DESCRIPTION				
0										
					GM	@ 0' 6" concrete				
						@ 1' sandy silty gravel (coarse), reddish brown, moist, no odor, (angular gravel).				
2					GC	@ 2' silty, clayey gravel, brown, moist, slightly cohesive, slight odor				
4					SW	@ 4' silty gravelly (1cm) sand, light brown, dry, slight odor				
6		75		ring at 5'	GC	@ 5' clayey sandy gravel (weathered gabbro) drove sampler through weathered rock, no odor.				
8					GM	@ 8' silty sandy fine gravel, brown, slightly moist, no odor.				
						@ 9' same, coarsening of gravel.				
10		165		ring at 10'	*WBR	@ 10' weathered gabbro and serpentine				
12						@ 12' coarse gravel, some silt, 1-4 cm.				
14		>200		ring at 15'	*WBR	@ 15' crushed gabbro and serpentine, auger refusal.				
16										
18										
20										
22										
24										
26										
28										
30										

*A - Depth; *B - Graphic Log; *C - BLOW/ft; *D - Vapor Concentration; *E - Sample Type and Depth; *F - Soil Group Symbol (U.S.C.S.); *WBR - Weathered Bedrock

GREGG & ASSOCIATES, INC.

LOG OF EXPLORATORY BORING

Field Location of Boring:

Project No.: 02-276-005
 Client: ALAMEDA CO.
 Location: Fairmont Hospital
 Logged by: M. Marsden
 Drilling Method: B53
 Installation Data: None

Date: 7-1-88

Boring # FH-3

Sheet 1
 of 1

Hole Diam.: 8"

*A	*B	*C	*D	*E	*F	Water Level		DESCRIPTION
						Time	Date	
0								@ 0' concrete 6" thick.
					GC			@ 1' silty clayey coarse gravel, red, moist, no odor.
2					GC			@ 2' silty clayey gravel (fine), brown, moist, moderately cohesive, no odor.
4		49	ring at 5'		SC			@ 4' silty clayey very fine sand, brown, moderately cohesive, no odor
					GM			@ 5' silty sandy gravel, brown, no odor, weathered gabbro and serpentine 1-5 cm.
6								
8					GM			@ 8' silty sandy medium gravel, brown, moist, no odor.
10		75	ring at 10'		GM			@ 10' same, highly weathered gabbro.
12								@ 12' same, more silt.
14		170	ring at 15'		*WBR			@ 15' highly weathered gabbro.
16								
18								@ 18' silty sandy gravel, brown, no odor.
20		200	ring at 20'		*WBR			@ 20' highly weathered gabbro, no odor, auger refusal.
22								
24								
26								
28								
30								

*A - Depth; *B - Graphic Log; *C - BLOW/ft; *D - Vapor Concentration; *E - Sample Type and Depth; *F - Soil Group Symbol (U.S.C.S.); *WBR - Weathered Bedrock

GREGG & ASSOCIATES, INC.

LOG OF EXPLORATORY BORING

Field Location of Boring:

Project No.: 02-276-005

Date: 7-1-88

Boring # FH-4

Client: ALAMEDA CO.

Location: Fairmont Hospital

Sheet 1

Logged by: M. Marsden

Driller: GREGG

of 1

Drilling Method: B53 hollow stem auger

Hole Diam. 8"

Installation Data: None

*A	*B	*C	*D	*E	*F	Water Level				
						Time				
						Date				
DESCRIPTION										
0					GC	@ 0' concrete 6" thick.				
						@ 1' silty clayey gravel, red, moist, no odor, slightly cohesive.				
2					GM	@ 2' silty sand, medium gravel, moist, no cohesion, no odor.				
4		80'		ring at 5'						
						@ 5' highly weathered gabbro, no odor.				
6										
8						@ 8' silty, sandy medium gravel, dark brown, no odor.				
10		48'		ring at 10'	*WBR	@ 10' same, highly weathered gabbro.				
12										
14					GM	@ 14' clayey sandy fine gravel, light brown, no odor, dry.				
						@ 15' silty sandy gravel, dry, no odor.				
16		40'		ring at 15'						
18						@ 18' clayey sandy fine gravel, light brown, no odor.				
20		19'		ring at 20'	SM	@ 20' clayey silty coarse sand, some gravel, yellow, slightly moist, no odor.				
22						@ 23' silty sandy fine gravel, greenish brown, dry, no odor.				
24										
26		77'		ring at 25'	*WBR	@ 25' highly weathered gabbro.				
28						@ 28' silty sandy fine gravel, greenish brown, dry, no odor.				
30		150'		ring at 30'	*WBR	@ 30' highly weathered gabbro, wet.				
						@ 32' auger refusal; probe just slightly wet.				

*A - Depth; *B - Graphic Log; *C - BLOW/ft; *D - Vapor Concentration; *E - Sample Type and Depth; *F - Soil Group Symbol (U.S.C.S.); *WBR - Weathered Bedrock

GREGG & ASSOCIATES, INC.

LOG OF EXPLORATORY BORING

Field Location of Boring:

Project No.: 02-276-005 Date: 6-2-88
 Client: ALAMEDA CO.
 Location: Fairmont Hospital
 Logged by: M. Marsden Driller: ENEXCO
 Boring # FHB-1
 Sheet 1 of 1
 Drilling Method: B53 hollow stem auger Hole Diam.: 8"
 Installation Data: 15'-5' 2" slotted PVC (.02 slots), 5-0' blank PVC; 15-3' Lonestar #3 sand, 3-2' Bentonite, 2-0' concrete.

*A	*B	*C	*D	*E	*F	Water Level				
						Time				
						Date				
						DESCRIPTION				
0					SM					@ 0' concrete to 6". @ 6" silty gravelly sand, brown, dry, no odor.
2										
4					SM					@ 5' silty, gravelly sand, yellow brown, slightly moist, no odor.
6					SM					@ 7' silty sand, some pebbles, yellow brown, slightly moist, no odor
8					SM					@ 9' silty sand, some pebbles, yellow brown, slightly moist, no odor
10										
12				ring at 12'	SP					@ 12' gravelly coarse sand, some silty, yellow brown, dry, slight odor.
14										@ 13.5 driller notes difficult drilling.
16				ring at 17'						
18					SM					@ 17' cobbly, silty sand, brown, dry, no odor; gabbro cobbles. Auger refusal.
20										
22										
24										
26										
28										
30										

*A - Depth; *B - Graphic Log; *C - BLOW/ft; *D - Vapor Concentration; *E - Sample Type and Depth; *F - Soil Group Symbol (U.S.C.S.); *WBR - Weathered Bedrock

GREGG & ASSOCIATES, INC.

LOG OF EXPLORATORY BORING

Field Location of Boring:

Project No.: 02-276-005

Date: 6-30-88

Client: ALAMEDA CO.

Location: Fairmont Hospital

Logged by: M. Marsden

Driller: GREGG

Boring # FHB-2

Sheet 1
of 1

Drilling Method: B53 hollow stem auger
Installation Data: 15'-5' 2 slotted PVC (.02" slots), 5-0' blank PVC; 15-3' Lonestar #3 sand, 3-2' Bentonite, 2-0' concrete.
Hole Diam.: 8"

*A	*B	*C	*D	*E	*F	Water Level				
						Time				
						Date				
DESCRIPTION										
0										@ 0' 6" of concrete.
2										
4					GM					@ 4' silty sandy gravel, brown slightly moist, no odor, angular gravel, 1-2 cm.
6		52'		ring at 5'						@ 5' coarse silty gravel, 2-3 cm.
8					SP					@ 8' silty gravelly coarse sand, brown, dry, no odor.
10		40'		ring at 10'	SP					@ 10' same, slightly moist.
12					SM					@ 12' silty gravelly sand, yellowish brown, some clay, slightly moist, no odor.
14										@ 15' silty gravelly sand, yellowish brown, some clay, slightly moist, no odor.
16		68'		ring at 15'	SM					
18										
20										
22										
24										
26										
28										
30										

*A - Depth; *B - Graphic Log; *C - BLOW/ft; *D - Vapor Concentration; *E - Sample Type and Depth; *F - Soil Group Symbol (U.S.C.S.); *WBR - Weathered Bedrock

GREGG & ASSOCIATES, INC.

LOG OF EXPLORATORY BORING

Field Location of Boring:

Project No.: 02-276-005

Client: ALAMEDA CO.

Location: Fairmont Hospital

Logged by: M. Marsden

Date: 6-30-88

Driller: GREGG

Boring # FHB-3

Sheet 1
of 1

Drilling Method: B53-hollow stem auger
Installation Data: 15'-5" 2 slotted PVC (.02" slots), 5'-0" blank PVC; 15'-3" Lonestar #3 sand, 3'-2" Bentonite, 2'-0" concrete. Hole Diam.: 8"

*A	*B	*C	*D	*E	*F	Water Level	Time	Date	DESCRIPTION
0									@ 0' 6" of concrete.
2					SM				@ 3' gravelly silty sand, brown, dry, no odor.
4					GP				@ 5' silty sandy coarse gravel (1 cm), dry, no odor, gabbro gravel.
6		63'		ring at 5'					
8					GM				@ 8' same, 50/50 gravel to silty sand.
10		35'		ring at 10'	SM				@ 10' clayey silty sand, some gravel, mications, brown, dry, no odor
12					GM				@ 11' very coarse gravel, 1-5 cm.
14					GM				@ 14' silty sandy gravel, brown, no odor, dry.
16		38'		ring at 15'	ML				@ 15' clayey gravelly silt, brown, highly weathered rock, no odor, micas, weathering to clays, moderately cohesive.
18									
20									
22									
24									
26									
28									
30									

*A - Depth; *B - Graphic Log; *C - BLOW/ft; *D - Vapor Concentration; *E - Sample Type and Depth; *F - Soil Group Symbol (U.S.C.S.); *WBR - Weathered Bedrock



Environmental
Science &
Engineering, Inc.

June 8, 1993

Project No. 6-93-5021

Mr. Robert Weston
Division of Hazardous Materials
Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94621

SUBJECT: Fairmont Hospital, 15401 Foothill Boulevard, San Leandro, California

Dear Mr. Weston:

On behalf of Alameda County General Services Agency (GSA), Environmental Science & Engineering, Inc. (ESE) is pleased to present the attached report documenting the subsurface investigation at the subject site.

ESE's investigation resulted in no observed soil contamination surrounding UST #1. Based on this, ESE recommends that this tank be considered for abandonment in-place. We would appreciate your written response to this recommendation.

Please contact Patrick Galvin at (510) 685-4053 with any questions or comments regarding our report or this request for abandonment in place.

Sincerely,

ENVIRONMENTAL SCIENCE & ENGINEERING, INC.


Patrick Galvin
Senior Engineer

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