

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, Assistant Agency Director

March 30, 1995
STID 3991

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Division
80 Swan Way, Rm. 200
Oakland, CA 94621
(510) 271-4320

REMEDIAL ACTION COMPLETION CERTIFICATION

City of Oakland
Contact: Okey Ozoh
7101 Edgewater Dr.
Oakland, CA 94621

Re: Chabot Golf Course, located at 11450 Golf Links Road, Oakland, CA
94605

Dear Mr. Okey Ozoh:

This letter confirms the completion of site investigation and remedial action for one 1,000-gallon diesel, one 550-gallon gasoline, and one 500-gallon gasoline underground storage tank at the above described location.

Based upon the available information 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 tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, Division 3, Chapter 16, Section 2721(e) of the California Code of Regulations.

Please contact Juliet Shin at (510) 567-6700 if you have any questions regarding this matter.

Sincerely,

Rafat A. Shahid, Director

c: Ariu Levi, Acting Chief, Hazardous Materials Division - files
Kevin Graves, RWQCB
Mike Harper, SWRCB
Juliet Shin, ACDEH

LOP\Completion

ENVIRONMENTAL
PROTECTION

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

55 MAR 29 PM 1:16

I. AGENCY INFORMATION

Date: 3/14/95

Agency name: Alameda County-HazMat Address: 1131 Harbor Bay Pkwy
City/State/Zip: Alameda, CA 94502 Phone: (510) 567-6700
Responsible staff person: Juliet Shin Title: Senior HMS

II. CASE INFORMATION

Site facility name: Chabot Golf Course
Site facility address: 11450 Golf Links Road
RB LUSTIS Case No: N/A Local Case No./LOP Case No.: 3991
URF filing date: 1/31/95 SWEEPS No: N/A

<u>Responsible Parties:</u>	<u>Addresses:</u>	<u>Phone Numbers:</u>
City of Oakland Contact: Okey Ozoh	7101 Edgewater Dr. Oakland, CA 94621	(510) 615-5514

<u>Tank No:</u>	<u>Size in gal.:</u>	<u>Contents:</u>	<u>Closed in-place or removed?:</u>	<u>Date:</u>
1	1,000	diesel	removed	8/19/93
2	550	gasoline	removed	8/19/93
3	500	gasoline	removed	8/19/93

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: Unknown

Site characterization complete? YES

Date approved by oversight agency: 12/16/94

Monitoring Wells installed? No Number: NA

Proper screened interval? NA

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

Flow direction: NA

Most sensitive current use: Unknown

Leaking Underground Fuel Storage Tank Program

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:

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Juliet Shin

Title: Senior HMS

Signature: *Juliet Shin*

Date: 3/14/95

Reviewed by

Name: Eva Chu

Title: Hazardous Materials Specialist

Signature: *Eva Chu*

Date: 3/14/95

Name: Amy Leech

Title: Hazardous Materials Specialist

Signature: *Amy Leech*

Date: 3/14/95

VI. RWQCB NOTIFICATION

Date Submitted to RB:

RB Response: *Approved*

RWQCB Staff Name: Kevin Graves

Title: San. Engineering Asso. Date:

VII. ADDITIONAL COMMENTS, DATA, ETC.

Three underground storage tanks, one 1,000-gallon diesel, one 550-gallon gasoline, and one 500-gallon gasoline tank, were removed from the above site on August 19, 1993. The 550-gallon tank was located in the maintenance yard and was used for fueling maintenance vehicles. The other gasoline tank was located across the road from the club house and was used for fueling golf carts. The diesel tank was located adjacent to the club house and was used to fuel the building's heating system.

No holes were noted in any of the three tanks. Stained soil and hydrocarbon odors were noted in the 550-gallon and 1,000-gallon UST pits. One soil sample was collected from beneath each of the gasoline USTs, and three soil samples were collected from the bottom and sidewalls of the 1,000-gallon tank pit.

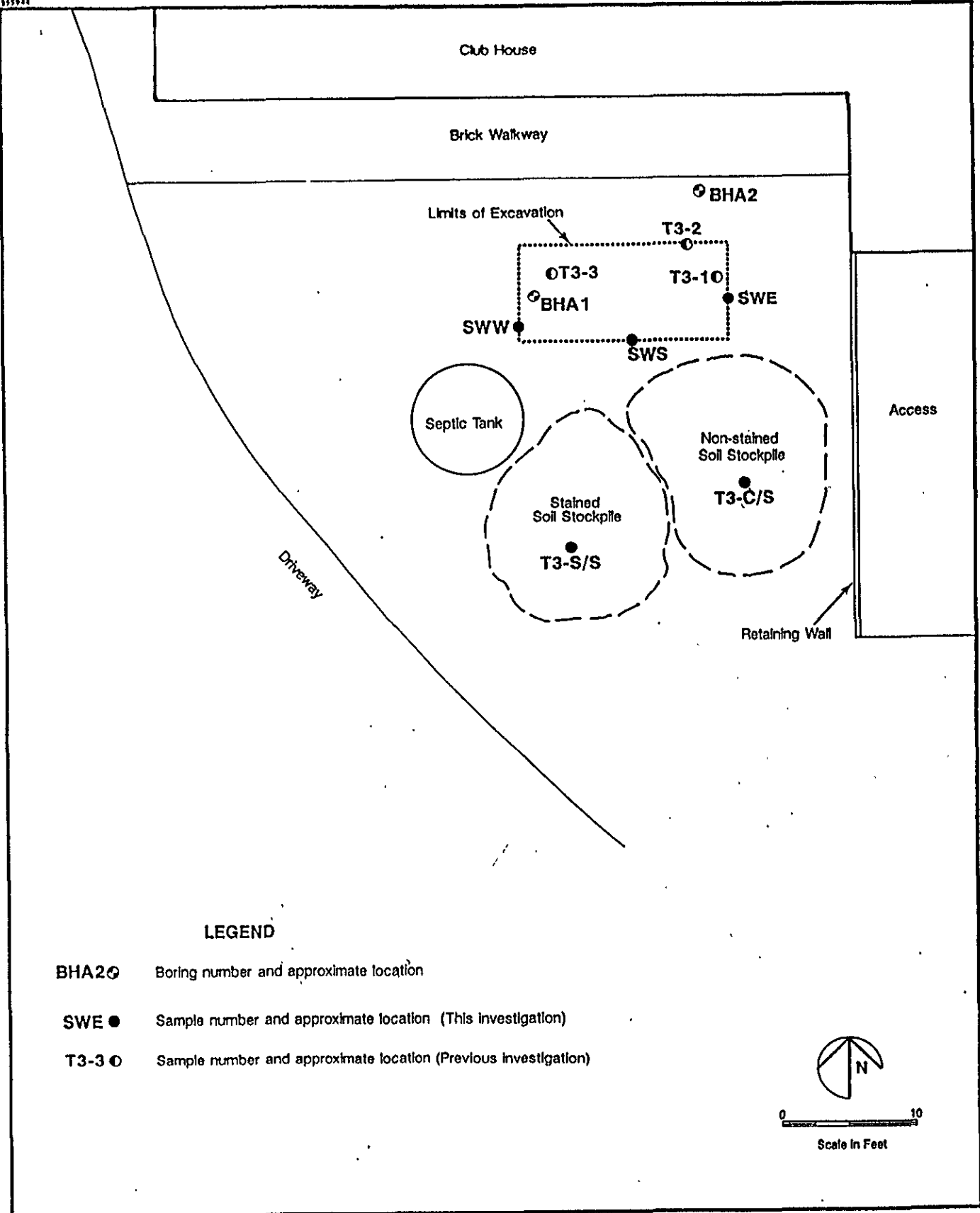
Leaking Underground Fuel Storage Tank Program

Soil samples collected from beneath the gasoline USTs did not identify any contaminant constituents. One soil sample collected from the north sidewall of the diesel UST pit, adjacent to the club house building, identified 4,800 ppm diesel, no benzene, and 18 ppm toluene, 28 ppm ethylbenzene, and 150 ppm xylenes at approximately 6 feet below ground surface (bgs). One soil sample collected from beneath the east end of the diesel UST identified 30 ppm TPHd and no BTEX. Stockpiled soil samples from the gasoline USTs only identified 5.5ppm TPHg and no BTEX was detected. Stockpiled soil samples collected from the diesel UST excavation identified up to 340 ppm TPHd and no BTEX. Ground water was not observed in any of the excavations.

On October 26, 1993, AGI investigated the extent of the soil contamination identified in the diesel UST pit, by installing two borings, BHA1 and BHA2, adjacent to the pit, and collecting three additional sidewall samples. The borings were drilled down to 9 feet bgs. Soil samples were collected from BHA2 were collected at 6 and 9 feet bgs. One soil sample was collected from BHA1 at 4.5 feet bgs. The three sidewall samples, SWE, SWS, and SWW, were collected from 6 and 7 feet bgs. These soil samples were analyzed for TPHd and BTEX. Analysis of these soil samples only identified 25 ppm TPHd in BHA2 at 6 feet bgs. No contaminant constituents were identified in any of the other samples.

On March 2, 1994, one boring, SB-1, was drilled adjacent to the tank pit to determine the depth to ground water and to collect a "grab" ground water sample if ground water was encountered above 60 feet bgs. Soil samples were collected from 6.5 feet, 21.5 feet, and 26.5 feet bgs from the boring. No TPHd or benzene was identified in these samples. Only 0.029ppm toluene, 0.03 ppm ethylbenzene, and 0.190ppm xylenes were identified. Ground water was encountered at a depth range of 20 to 25 feet bgs. The "grab" ground water sample collected did not identify any contaminant constituents.

Based on the fact that the extent of soil contamination appears to be very limited and has been identified in a clay strata that extends down to approximately 17 feet bgs, there appears to be little threat to future leaching. Additionally, a "grab" ground water sample collected from the boring, located within 5 feet west of the tank pit, did not identify any contaminants in the ground water at 20 to 25 feet bgs.



LEGEND

- BHA2⊙ Boring number and approximate location
- SWE● Sample number and approximate location (This investigation)
- T3-3⊙ Sample number and approximate location (Previous investigation)



Applied Geotechnology Inc.
 Geotechnical Engineering
 Geology & Hydrogeology

Site Plan
 City of Oakland/Chabot Club House
 Oakland, California

FIGURE

2

JOB NUMBER
 15,687.015

DRAWN
 DFF

APPROVED

DATE

REVISED

DATE

TABLE 1
Summary of Chemical Analyses

Sample	EPA TEST METHOD				
	8015	8020			
	Modified Diesel (TPH-D) (mg/kg)	Benzene (B) (ug/kg)	Ethylbenzene (E) (ug/kg)	Toluene (T) (ug/kg)	Xylenes (X) (ug/kg)
Samples obtained during UST removal (8/19/93):					
T3-1 @9'	30	<5	<5	<5	<5
T3-2 @6'	4800	<5	28	18	150
T3-3 @9'	<5.0	<5	<5	<5	<5
T3-C/S	130	<5	<5	<5	<5
T3-S/S	340	<5	<5	<5	<5

Samples obtained during this investigation (10/26/93):

BHA1 @4.5'	<5.0	<5	<5	<5	<5
BHA2 @6'	25	<5	<5	<5	<5
BHA2 @9'	<5.0	<5	<5	<5	<5
SWE @7'	<5.0	<5	<5	<5	<5
SWS @6'	<5.0	<5	<5	<5	<5
SWW @6'	<5.0	<5	<5	<5	<5

Notes: Laboratory results are reported in milligrams per kilogram (mg/kg) and micrograms per kilogram (ug/kg) which are equivalent to parts per million (ppm) and parts per billion (ppb), respectively.

Results of analytical tests performed on samples obtained during UST removal are provided here for completeness, and were presented in the report by Uribe & Associated dated September 24, 1993.