ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY

DAVID J. KEARS, Agency Director

June 14, 1995 STID 4445 RAFAT A. SHAHID, DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program

REMEDIAL ACTION COMPLETION CERTIFICATION 1131 Harbor Bay Parkway

1131 Harbor Bay Parkway Alameda, CA 94502-6577 (510) 567-6700

Lee Family Association 1127 Webster St., Room 11 Oakland CA 94607

RE: Lee Family Association site/vacant lot, 387-12th St., Oakland CA 94607

Dear Lee Family Association,

This letter confirms the completion of site investigation and remedial action for the former 500-gallon underground fuel oil storage tank at the above referenced site.

Based on 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.

If you have any questions regarding this letter, please contact Jennifer Eberle at (510) 567-6700, ext. 6761.

Very truly yours,

Kafat A. Shahid, Director

cc: Mee Ling Tung, Acting Chief, Environmental Protection Division

Kevin Graves, RWQCB

efe A Shohul

Mike Harper, SWRCB (with attachment)

Bowen Li, 1330 Broadway, Suite 1028, Oakland CA 94612-2509

Homer Lee, 1420 University Ave., Berkeley CA 94702

Cambria, 1144-65th St., suite C, Oakland CA 94608

Jennifer Eberle

LOP/Completion je.4445clos.let

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CHALITY CONTROL BOARD

CASE CLOSURE SUMMARY Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION

Date: 1/12/95

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Alameda County-HazMat Address: 1131 Harbor Bay Pky Agency name:

City/State/Zip: Alameda CA 94502 Phone: (510) 567-6700

Responsible staff person: Jennifer Eberle Title: Hazardous Materials Spec.

II. CASE INFORMATION

Site facility name: Lee Family Association/vacant lot

Site facility address: 387-12th St., Oakland CA 94607

RB LUSTIS Case No: N/A Local Case No./LOP Case No.: 4445
URF filing date: 11/17/92 SWEEPS No: N/A

Phone Numbers: Responsible Parties: Addresses:

Lee Family Assoc., 1127 Webster ST., Rm 11, Oakland CA 94607,

Attn: Homer Lee

Date: 🍱 Tank Size in Contents: Closed in-place

<u>No:</u> gal.: or removed?:

500 fuel oil removed 7/24/92

111. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: tank-related

Site characterization complete? YES

Date approved by oversight agency: 1/12/95

Number: 3 Monitoring Wells installed? YES

Proper screened interval? YES

Highest GW depth below ground surface: 18.00'bgs Lowest depth: 19.42'bgs

Flow direction: N-NW to N-NE

Most sensitive current use: vacant lot, may be developed into

commercial/residential

Are drinking water wells affected? NO Aquifer name:

Is surface water affected? NO Nearest affected SW name:

Off-site beneficial use impacts (addresses/locations):

Leaking Underground Fuel Storage Tank Program

Report(s) on file? YES Where is report(s) filed? Alameda County, 1131 Harbor Bay Pky, Alameda Ca 94502

Treatment and Disposal of Affected Material:

<u>Material</u>	Amoun (include		Action (Treatme Disposal w/des		<u>ite</u>
Tank Soil	500 gal 108 yd3	disposed t	o H&H (manifest t BFI Vasco Rd.	#91510160) , Livermore	7/24/92 8/25/92
drilling	-		sed to USPCI in		

III. RELEASE AND SITE CHARACTERIZATION INFORMATION (Continued) Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant		(ppm)	Water	(ppm)	
	<u>Before</u>	<u>After</u>	<u>Before</u>	<u>After</u>	
TPH (Gas)	NA		NA	ND	
TPH (Diesel)	8100	5300 <i>#</i>	79	7.4	
Benzene	ND	ND#	ND	.001	
Toluene	1.9*	.410#	.004	.002	
Xylene	14	.320#	.070	.024	
Ethylbenzene	4.7	.230#	.057	ND	
Oil & Grease	NA				
Heavy metals	NA				
8270				ND	

Comments (Depth of Remediation, etc.): "Before" soil samples are from beneath UST. . . * from initial soil stockpile. . . # "After" soil samples are from the borings drilled. "Before" water samples are from onsite wells; "after" water samples are from downgradient hydropunches.

IV. CLOSURE

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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? *** NO, because the value is below the risk-based screening level value in ASTM's look up table. This is based on 7.4 mg/L diesel left in place (worst case) in qw below the site. Diesel is 13% napthalene; so $.0013 \times 7.4 \text{ mg/L} =$.00962 mg/L, which is well below the value of 10.6 mg/L (gw-vapor intrusion fm gw to bldgs). This means a risk assessment need not be conducted.

Monitoring wells Decommisioned: YES

Number Decommisioned: 3

List enforcement actions taken: none

List enforcement actions rescinded: none

Number Retained: 0

Leaking Underground Fuel Storage Tank Program

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Jennifer Eberle

Signature:

Reviewed by

Name: Eva Chů Signature:

Name: Amy Leech

Signature:

VI. RWOCB NOTIFICATION

Date Submitted to RWQCB: 5-5-95
RWQCB Staff Name Kevin Graves

Signature:

Title: Hazardous Materials Specialist

Title: Hazardous Materials Specialist

Title: Hazardous Materials Specialist

RB Response: Africe Title: AWRCE

Date:

Date: 5(1)95

VII. ADDITIONAL COMMENTS, DATA, ETC.

A fuel oil UST was removed on 7/24/92. County inspector Don Hwang reported kerosene leaking from hole punctured by backhoe during removal on 7/24/92. One soil sample was collected under the UST, 2' into native soil, which was stained olive and had an odor. Results: 8100 ppm TPHd, ND benzene, some TEX. The stockpile had up to 7800 ppm TPHd, ND benzene, and some TEX.

Prior to tank removal, the entire site had been excavated to a depth of approx 8-10' bgs. Subsequent to tank removal, approximately 100 yd3 of soil were excavated and offhauled to BFI Vasco Rd. landfill in Livermore. Soils were removed to the depth of groundwater, approx. 26'bgs. No confirmatory soil samples were taken. To prevent caving, the lower portion of the tank pit was backfilled w/excavated soil which did not show visible signs of contamination, which raised this portion of the site to a depth of approx. 20'bgs. Subsequently, the remainder of the tank pit was backfilled to the level of the remainder of the site (approx 8-10' below street grade) w/clean fill in May 1993.

Three SBs were installed in June 93, and developed as (temporary) wells. Soils sampled within the borehole were largely ND for TPHd and BTEX except B3, which contained significant concentrations at 20.5' and 26'bgs, which translates to approx. 30.5' and 36' below street surface (see attached table). No benzene was detected. Groundwater had low concs of TPHd in B1 and B2, but had 79,000 ppb TPHd in B3; benzene was again ND.

Leaking Underground Fuel Storage Tank Program

GW was again sampled on 4/21/94; TPHd had decreased to 7,400 ppb in B3 (benzene was 1 ppb), and was ND in B1 and 200 ppb in B2 (see attached table). PAHs were not detected fm B-3. An angle boring was placed approx. 3' away from B3, and was angled below Franklin St. on 5/16/94. The 4 soil samples collected were ND for TPHd and BTEX. The deepest soil sample (B4-6C) was taken approx 4' below the gw table. The results of the angle boring indicated that soil contamination had not spread laterally from B3 in the downgradient direction.

GW flow direction was determined on 7 separate occasions, and was found to range between N-NW and N-NE. If gw contamination from B3 had migrated, it would likely have been detected in gw in B4. However, another investigation was conducted to confirm that gw contamination had not migrated. Two hydropunches were conducted on 11/3/94 in Franklin St. near 12th St. (see attached map). GW results: ND TPHg, ND BTEX, 170 ppb and 260 ppb TPH-d. Although TPH-d was detected, these are extremely low concentrations, and are well below the values in ASTM's risk-based screening levels, which are a basis for requesting a risk assessment. In addition, extensive on-site source removal was conducted.

The County (JE) discussed these results w/Kevin Graves of RWQCB on 12/5/94. He gave his verbal approval to close the case.

1 Change of timest)

TABLE 3 CHEMICAL ANALYSIS RESULTS FOR SOIL SAMPLES

LEE FAMILY BENEVOLENT ASSOCIATION PROPERTY 387 12TH STREET, OAKLAND, CALIFORNIA

Boring No. & Sample Date	Sample ID	Depth (ft)	TPHd (diesel) (mg/kg)	Benzene (ug/kg)	Toluene (ug/kg)	Ethÿl- benzene (ug/kg)	Total Xylenes (ug/kg)	EPA 8240 (ug/kg)	EPA 8270 (ug/kg)
B1	B1-1C	11.0	ND	ND	ND	ND	ND	<u>.</u>	
06/06/93	B1-2C	16.0	ND	ND	ND	ND	ND	***	
	B1-3B	20.5	ND	ND	9	ND	ND		
. B2	B2-1C	6.0	ND	ND	ND	ND	· ND	***	
06/06/93	B2-2C	11.0	ND	ND	5	ND	ND '		
	B2-3C	16.0	ND	ND	20	ND	ND		
	B2-4C	21.0	ND	ND	ND	ND	ND		
В3	B3-1C	11.0	ND	ND	7	ND	ND	***	
06/06/93	B3-2C	18.0	31*	ND	63	ND	ND		
	B3-3B	20.5	760	ND**	410	230	320		
	B3-4C	26.0	5300	ND**	70	100	200		
B4	B4-1C	6.0 #	ND /	ND /	ND <	ND /	ND /		***
05/16/94	B4-2C	10.0 #	ND (ND 🤇	ND /	ND /	ND /		
	B4-4C	21.0 #	ND /	, ND 🖊	ND /	ND /	ND 🤇	/	
	B4-6C	30.5 #	ND /	ND /	ND /	ND /	ND	ND:	ND 🗸
		7							

Notes

--- Not analyzed

ND Not detected

- * Oil also detected at concentration of 58 mg/kg
- ** Limit of detection 50 ug/kg due to elevated TPH concentration
- # Borehole depth in angled soil boring (45 degrees from vertical). Equivalent vertical depths for samples B4-1C, B4-2C, B4-4C, and B4-6C are 4.2, 7.1, 14.8, and 21.6 feet, respectively.

Detection limits (except where otherwise noted):

TPHd -- 1 mg/kg

Benzene -- 5 ug/kg

Toluene -- 5 ug/kg

Ethylbenzene -- 5 ug/kg

Total Xylenes -- 5 ug/kg

EPA Method 8240 -- see laboratory analysis report

EPA Method 8270 -- see laboratory analysis report

21.6' = ~ 4' below water

TABLE 2 CHEMICAL ANALYSIS RESULTS FOR GROUNDWATER SAMPLES COLLECTED IN SITE MONITORING WELLS

LEE FAMILY BENEVOLENT ASSOCIATION PROPERTY 387 12TH STREET, OAKLAND, CALIFORNIA

Sampling Location	Sampling Date	TPHd E (diesel) (mg/L)	lenzene (ug/L)	Toluene (ug/L)	Ethyl- benzene (ug/L)	Total Xylenes (ug/L)	EPA 8240 (ug/L)	EPA 8270 (ug/L)
B1 B1 (dup.) B1	06/07/93 06/07/93 04/21/94	0.07 0.09 ND 🗸	ND ND ND /	4 3 ND /	ND ND ND /	ND ND ND		
B2 B2	06/07/93 04/21/94	0.3 0.2 /	ND ND /	1 ND /	ND ND /	ND ND/		
B3 B3	06/07/93 04/21/94	⁷⁹ 7.4 /	ND 1	4 2 /	57 24 He	70 ND nearly same	21 (Ethyl-benzene)	ND 🗸
California M	CL*	e n ti	1	100**	680	1750		

Notes

--- Not analyzed/not available

ND Not detected

- * California Department of Health Services Maximum Contaminant Level for drinking water.
- ** Action Level. No MCL exists (unregulated chemical).

Detection limits:

TPHd -- 0.05 mg/L

Benzene -- 0.5 ug/L

Toluene -- 0.5 ug/L

Ethylbenzene -- 0.5 ug/L

Total Xylenes -- 2 ug/L, except 4/21/94 sample from B3 - 5 ug/L

EPA Method 8240 -- see laboratory analysis report

EPA Method 8270 -- see laboratory analysis report

h:\1033\gwqdat2.wq1 29-Jun-94

Figure 2: SITE PLAN SHOWING GROUNDWATER FLOW DIRECTION AND RECENT SOIL SAMPLING LOCATIONS

Project No. 94-1033

TABLE 1 GROUNDWATER ELEVATION DATA SUMMARY

LEE FAMILY BENEVOLENT ASSOCIATION PROPERTY 387 12TH STREET, OAKLAND, CALIFORNIA

Well No. T.O.C. Elev.	B1 102:54	χοζο	/ B2 101.79		B3 102.44	
Date	Depth to Water	Relative GW Elev.*	Depth to Water	\$955 \$900 haban 95990 km254	Depth to Water	Relative GW Elev.*
Phase I 06/17/93	18.78	83.76	18.00	83.79	18.70	83.74
06/24/93 07/01/93	18.82 18.86	83.72 83.68	18.05 18.10	83.74 83.69	18.76 18.81	83.68 83.63
Phase II 04/21/94	19.40	83.14	18.61	83.18	70 19.29	83.15
05/12/94	19.38	83.16	18.58	83.21	19.27	83.17
05/13/94	19.42	83.12	18.62	83.17	19.31	83.13
05/16/94	19.41	83.13	18.61	83.18	19.30	83.14

^{*} Elevation relative to arbitrary datum.

DTW for bottom of excavation or 8-16' below street grade.

T.O.C. - Top of casing GW - Ground Water

casing sticks out a ver ground

h:\1033\gwelev2.wq1

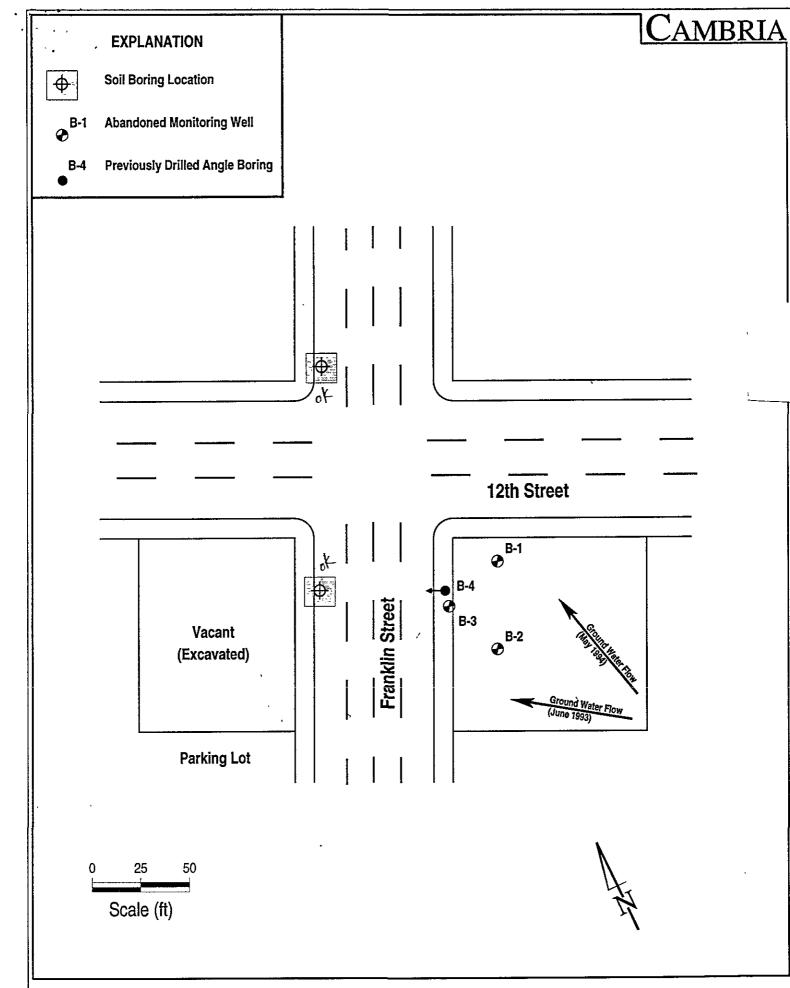


Figure 1. Soil Boring Locations - 387 12th Street, Oakland, California

DAPROJECTISB-2000OJUKI-137/BOR-LOC