

ALAMEDA COUNTY  
HEALTH CARE SERVICES  
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, Director

September 12, 1995  
StID # 2069

DEPARTMENT OF ENVIRONMENTAL HEALTH  
Environmental Protection Division  
1131 Harbor Bay Parkway, #250  
Alameda, CA 94502-6577  
(510) 567-6700

REMEDIAL ACTION COMPLETION CERTIFICATION

Mr. Tadashi Nakadegawa  
955 High St.  
Oakland CA 94601

RE: Oakland Unified School District, 900 High St., Oakland CA  
94601

Dear Mr. Nakadegawa:

This letter confirms the completion of site investigation and remedial action for the 550 gallon underground unleaded gasoline tank 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 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 the regulation contained in Title 23, Division 3, Chapter 16, Section 2721 (e) of the California Code of Regulations. (If a change in land use is proposed, the owner must promptly notify this agency.)

Please contact Barney Chan at (510) 567-6765 if you have any questions regarding this matter.

Sincerely,

A handwritten signature in cursive script that reads "Jun Makishima".  
Jun Makishima

Acting Director of Environmental Health

c: G. Young, Acting Chief, Hazardous Materials Division-files  
Kevin Graves, RWQCB  
Mike Harper, SWRCB

RACC900Hi

**CASE CLOSURE SUMMARY**  
**Leaking Underground Fuel Storage Tank Program**

**I. AGENCY INFORMATION**

**Date:** 07/27/95

**Agency name:** Alameda County-HazMat    **Address:** 1131 Harbor Bay Parkway  
Rm 250, Alameda CA 94502

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

**Responsible staff person:** Barney Chan    **Title:** Hazardous Materials Spec.

**II. CASE INFORMATION**

**Site facility name:** Oakland Unified School District

**Facility address:** 900 High St., Oakland CA 94601

**RB LUSTIS Case No:** N/A              **Local Case No./LOP Case No.:** 2069

**ULR filing date:** 7/15/91                      **SWEEPS No:** N/A

<u>Responsible Parties:</u>	<u>Addresses:</u>	<u>Phone Numbers:</u>
Tadashi Nakadegawa	955 High St. Oakland, CA 94601	(510) 836-8385

<u>Tank No:</u>	<u>Size in gal.:</u>	<u>Contents:</u>	<u>Closed in-place or removed?:</u>	<u>Date:</u>
1	550	unleaded gas	Removed	7/29/91

**III RELEASE AND SITE CHARACTERIZATION INFORMATION**

**Cause and type of release:** unknown

**Site characterization complete?** Yes

**Date approved by oversight agency:** 7/26/95

**Monitoring Wells installed?** YES                      **Number:** 3

**Proper screened interval?** Yes, 8.0-24'

Leaking Underground Fuel Storage Program

Highest GW depth: 15'

Lowest depth: 17'

Flow direction: northwesterly

Most sensitive current use: commercial/industrial, water supplied by EBMUD

Are drinking water wells affected? No Aquifer name:

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

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

Report(s) on file? Yes Where is report(s)? Alameda County  
1131 Harbor Bay Parkway,  
Room 250, Alameda CA 94502-6577

**Treatment and Disposal of Affected Material:**

<u>Material</u>	<u>Amount (include units)</u>	<u>Action (Treatment of Disposal w/destination)</u>	<u>Date</u>
Tanks & Piping	1-550 gallon gas	Disposed @ Erickson Richmond	7/29/91
Soil	unknown amount	Aerated and reused	approx 7/93
Groundwater	520 gallon	Disposed, Demenno Kerdoon Compton, CA	7/29/91

**Maximum Documented Contaminant Concentrations - - Before and After Cleanup**

<u>Contaminant</u>	<u>* Soil (ppm)</u>		<u>Water (ppb)</u>	
	<u>Before</u>	<u>After</u>	<u>Before</u>	<u>After</u>
TPH (Gas)	360	360	ND	
Benzene	ND	ND	0.41	
Toluene	0.083	0.083	0.40	
Ethylbenzene	0.52	0.52	ND	
Xylenes	2.6	2.6	1.8	

\* second sampling event

**Comments (Depth of Remediation, etc.):**

see site summary

**IV. CLOSURE**

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



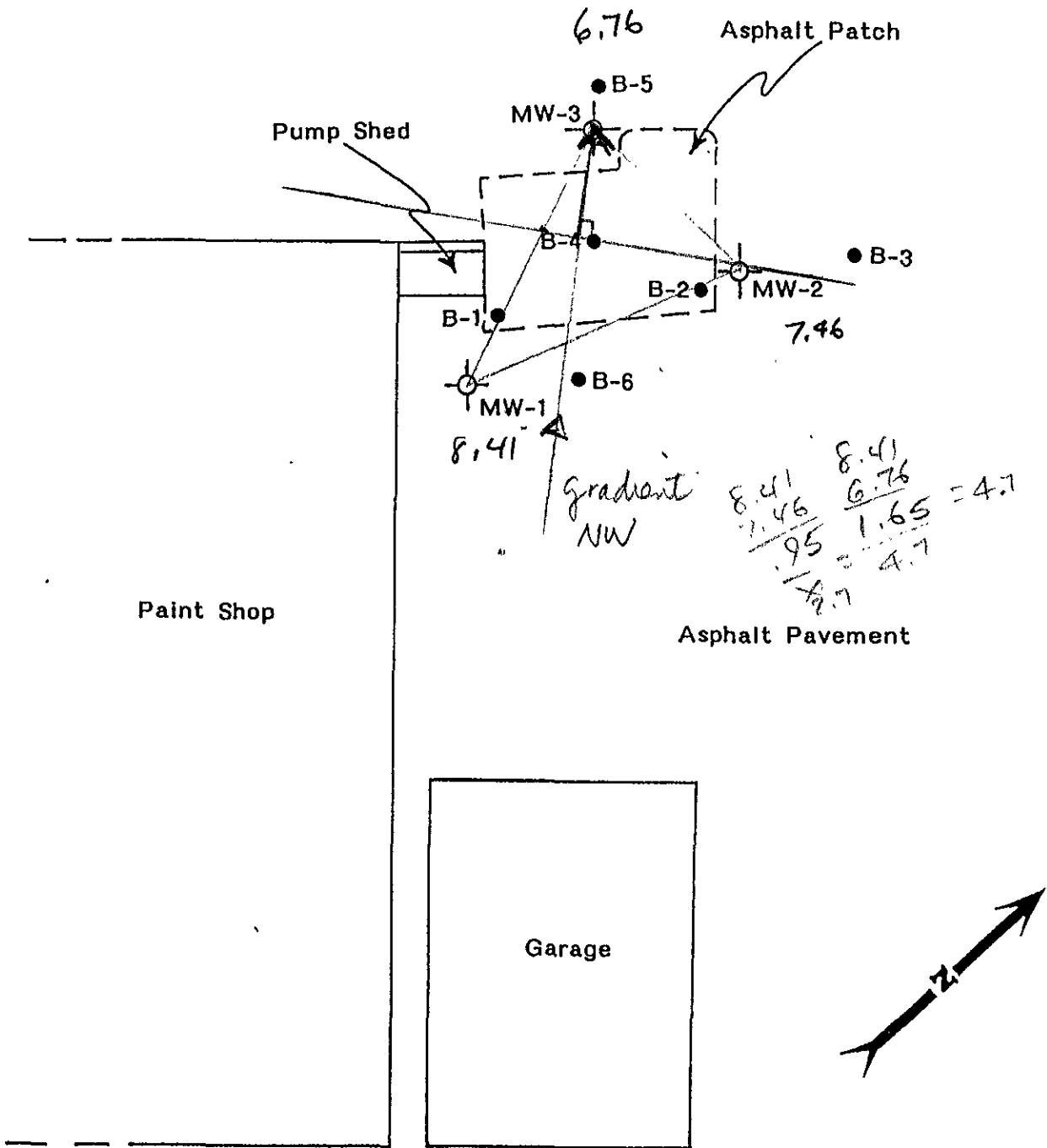
TABLE I  
 Petroleum Hydrocarbon Soil Laboratory Data

Location	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl Benzene (mg/kg)	Total Xylenes (mg/kg)	TPH-G (mg/kg)
B-1	6	ND	ND	ND	ND	ND
	10	ND	0.01	ND	0.03	ND
B-2	5	ND	ND	ND	ND	ND
	10	ND	ND	ND	ND	ND
B-3	5	ND	ND	ND	ND	ND
	10	ND	ND	ND	ND	ND
B-4	5	ND	ND	ND	ND	ND
	11	ND	ND	ND	ND	ND
B-5	5	ND	ND	ND	ND	ND
	10	ND	ND	ND	ND	ND
B-6	5	ND	ND	ND	ND	ND
	10	ND	ND	ND	ND	ND
MW-1	5	ND	0.01	ND	0.01	ND
	10	ND	0.01	ND	ND	ND
	15	ND	0.009	ND	ND	ND
MW-2	5	ND	0.009	ND	ND	ND
	10	ND	0.01	ND	0.01	ND
	20	ND	0.01	ND	ND	ND
MW-3	5	ND	0.01	ND	ND	ND
	10	ND	0.01	0.01	0.08	31
	15	ND	0.01	ND	0.01	ND
	20	ND	0.01	ND	ND	ND

Notes: mg/kg = milligrams per kilograms  
 ND = Not detected above the laboratory method detection limits used



#### 4.2 Stratigraphy

Stratigraphy observed during the current field investigation was similar to that encountered during CTE's previous investigation at this site. The underlying native soil (Quaternary Alluvial Deposits) to the total explored depths consists of yellowish brown or brown to light brown, lean clay (CL) interbedded with thin, discontinuous, sandy clay and clayey sand (SC) lenses. These sandy clay lenses are moist to wet, and appear to be the stratum through which groundwater movement is occurring. The letters in parentheses are the Unified Soil Classification System designations for each of these soil types.



SCALE: 1" = 10'

KEY

-  = monitoring well locations
-  = boring locations

CONSTRUCTION TESTING & ENGINEERING

BORING AND  
MONITORING WELL LOCATIONS

LOG NO

DATE

Site summary for 900 High St., OUSD StID # 2069

7/29/91- A 550 gallon gasoline tank removed from this site, ACDEH inspector Cynthia Chapman was present. The tank was asphalt wrapped steel and the wrapping was partially dissolved. One soil sample was taken from the bottom of the tank and two discrete samples taken of the backfill material. The stockpiled soils exhibited 380 and 400 ppm TPHg present while the soil sample from beneath the tank detected only 2.5 ppm TPHg and 5.6 ppb xylenes. Because of observed visual contamination during the time of the removal, two additional soil samples from the east and west side of the tank were requested. The west end sample was ND for gas and BTEX and the east end detected 360 ppm TPHg and ND, 83, 520, 2600 ppb BTEX.

For approximately two years, the excavated soil was left onsite and the pit left opened. The pit was later backfilled with this "aerated" soil (no sampling) and the pit resurfaced.

June 16, 1994- Field crew from CTE, Construction Testing and Engineering, Inc. oversaw the advancement of six borings around and within the former tank pit. This investigation was performed in an attempt to determine the limits of soil contamination and the extent of contamination in the reused "aerated" soils. No groundwater samples were taken. One boring was advanced within the tank pit (B-4) and five others were advanced radially from B-4 in the N,S,E and W directions. Two soil samples were taken from each boring, from 5 and 10 feet. Groundwater, expected at approximately 10 feet, was not encountered in any of the borings except B-4, from within the tank pit. All lab results for the 12 samples taken were ND for analytes with the exception of 0.01ppm toluene and 0.03 ppm total xylenes found in Boring #1. Groundwater was observed in borings B-1 and B-4, however, it was not sampled. It appears that the soil contamination is fairly limited and that the "aerated" backfilled soils do not need to be removed since B-4, advanced within the tank pit, was ND for TPHg and BTEX for the samples collected at 5 and 10' bgs.

October 20, 1994- To determine if groundwater was impacted by the fuel release, three monitoring wells were installed around the former tank pit. Soil samples from the borings detected up to 31 ppm TPHg and ND, 0.01, 0.01, 0.08 ppm BTEX respectively. The groundwater samples from the three wells detected very slight amounts of B,T and X just above the detection limit. Based on these results, it appears that soil contamination is limited and groundwater has not been adversely impacted. Note, the groundwater samples from MW-1 through MW-3 were analyzed twice, on 12/9/94 and 12/20/94 because the original QC data for the initial analyzed failed the acceptable range. Nevertheless, the concentration of benzene in MW-2 is near the detection limit of 0.3 ppb. Continued GW sampling is not warranted.

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	10	ND	ND	ND	ND	ND
B-4	5	ND	ND	ND	ND	ND
	11	ND	ND	ND	ND	ND
B-5	5	ND	ND	ND	ND	ND
	10	ND	ND	ND	ND	ND
B-6	5	ND	ND	ND	ND	ND
	10	ND	ND	ND	ND	ND
MW-1	5	ND	0.01	ND	0.01	ND
	10	ND	0.01	ND	ND	ND
	15	ND	0.009	ND	ND	ND
MW-2	5	ND	0.009	ND	ND	ND
	10	ND	0.01	ND	0.01	ND
	20	ND	0.01	ND	ND	ND
MW-3	5	ND	0.01	ND	ND	ND
	10	ND	0.01	0.01	0.08	31
	15	ND	0.01	ND	0.01	ND
	20	ND	0.01	ND	ND	ND

Notes: mg/kg = milligrams per kilograms  
 ND = Not detected above the laboratory method detection limits used

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# ANALYTICAL RESULTS FOR EPA 8020 / m8015 GASOLINE

Laboratory Job Number: E940704

Client Project Name / Number / Location: OUSD / 20-0178 / Oakland, CA

Reporting Units: ug/L

Date Analyzed:		12/09/94	12/09/94	12/09/94		
Date Extracted:		N/A	N/A	N/A		
Dilution Factor:		1	1	1		
Laboratory Sample I.D.:		14423	14424	14425		
Client Sample I.D.:		OUSD MW-1	OUSD MW-2	OUSD MW-3		
Sample Matrix:		Water	Water	Water		
COMPOUNDS		MDL	MB	RESULTS		
Benzene:		0.3	ND	<0.3	<0.3	<0.3
Toluene:		0.3	ND	0.29	0.33	0.27
Ethyl Benzene:		0.3	ND	<0.3	<0.3	<0.3
Total Xylenes:		0.6	ND	<0.6	<0.6	<0.6
SURROGATE	SPK CONC	ACP	% REC	% REC	% REC	% REC
aaa-Trifluorotoluene:	100 ng	80-120	117	112	135	116

Reporting Units: mg/L

Date Analyzed:		12/09/94	12/09/94	12/09/94		
Date Extracted:		N/A	N/A	N/A		
Dilution Factor:		1	1	1		
Laboratory Sample I.D.:		14423	14424	14425		
Client Sample I.D.:		OUSD MW-1	OUSD MW-2	OUSD MW-3		
Sample Matrix:		Water	Water	Water		
COMPOUNDS		MDL	MB	RESULTS		
Gasoline (EPA m8015):		0.5	ND	<0.5	<0.5	<0.5

MDL - Method Detection Limit  
 MB - Method Blank  
 ACP - Acceptable Range of Percent  
 SPK CONC - Spiking Concentration  
 %REC - Percent Recovery  
 ND - Not Detected



# ANALYTICAL RESULTS FOR EPA 8020 / m8015 GASOLINE

Laboratory Job Number: E940704A

Client Project Name / Number / Location: OUSD / 20-0178 / Oakland, CA

**Reporting Units:** ug/L

Date Analyzed:		12/20/94	12/20/94	12/20/94	12/20/94	
Date Extracted:		N/A	N/A	N/A	N/A	
Dilution Factor:		1	1	1	1	
Laboratory Sample I.D.:		14423	14424	14425	14426	
Client Sample I.D.:		OUSD	OUSD	OUSD	Trip	
		MW-1	MW-2	MW-3	Blank	
Sample Matrix:		Water	Water	Water	Water	
COMPOUNDS		MDL	MB	RESULTS		
Benzene:	0.3	ND	<0.3	0.41	<0.3	<0.3
Toluene:	0.3	ND	1.1	0.40	0.41	0.36
Ethyl Benzene:	0.3	ND	<0.3	<0.3	<0.3	<0.3
Total Xylenes:	0.6	ND	1.8	<0.6	<0.6	<0.6
SURROGATE	SPK CONC	ACP	% REC	% REC	% REC	% REC
aaa-Trifluorotoluene:	100 ng	80-120	106	119	141	111

**Reporting Units:** mg/L

Date Analyzed:		12/20/94	12/20/94	12/20/94	12/20/94	
Date Extracted:		N/A	N/A	N/A	N/A	
Dilution Factor:		1	1	1	1	
Laboratory Sample I.D.:		14423	14424	14425	14426	
Client Sample I.D.:		OUSD	OUSD	OUSD	Trip	
		MW-1	MW-2	MW-3	Blank	
Sample Matrix:		Water	Water	Water	Water	
COMPOUNDS		MDL	MB	RESULTS		
Gasoline (EPA m8015):	0.5	ND	<0.5	<0.5	<0.5	<0.5

MDL - Method Detection Limit  
 MB - Method Blank  
 ACP - Acceptable Range of Percent  
 SPK CONC - Spiking Concentration  
 %REC - Percent Recovery  
 ND - Not Detected

