ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR
DEPARTMENT OF ENVIRONMENTAL HEALTH
ALAMEDA COUNTY-ENV. HEALTH DEPT.
ENVIRONMENTAL PROTECTION DIV.
1131 HARBOR BAY PKWY., #250
ALAMEDA CA 94502-6577
(510)567-6700

January 13, 1995
StID # 4456

REMEDIAL ACTION COMPLETION CERTIFICATION

Mr. Thomas Coler
California Stevedore and Ballast
P.O. Box 7731
San Francisco CA 94120

RE: California Stevedore and Ballast, 4500 Tidewater Ave.
Oakland CA 94601

Dear Mr. Coler:

This letter confirms the completion of site investigation and remedial action for the two 500 gallon gasoline underground storage tanks and the one 2000 gallon above ground diesel storage tank at the above described location.

Based upon the available information and with provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the undeground 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.

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

Sincerely,

Rafat A. Shahid
Assistant Agency Director

c: Edgar B. Howell, Chief, Hazardous Materials Division-files
Kevin Graves, RWQCB
Mike Harper, SWRCB

RACC4500

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION **Date:** 11/16/94

Agency name: **Alameda County-HazMat** Address: **1131 Harbor Bay Parkway, Room 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: California Stevedore & Ballast

Site facility address: 4500 Tidewater Ave.,Oakland CA 94601

RB LUSTIS Case No: **N/A** Local Case No./LOP Case No.: 4456

ULR filing date: 6/15/93 SWEEPS No: **N/A**

Responsible Parties:	Addresses:	Phone Numbers:
Mr. Thomas Coler	P.O. Box 7731 San Francisco, CA 94120	(415) 826-7202

Tank No:	Size in gal.:	Contents:	Closed in-place or removed?:	Date:
1	500	gasoline	Removed	4/15/93
2	500	gasoline	Removed	4/15/93
3	2000 abovegrn	diesel	Removed	4/15/93

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: unknown cause

Site characterization complete? Yes

Date approved by oversight agency:

Monitoring Wells installed? YES Number: 1

Proper screened interval? Yes, 6-11′, based on field observations. Stabilized groundwater rises to 1-3′ bgs .

Highest GW depth: 0.88' Lowest depth: 3.3'

Flow direction: Assumed southwesterly from proximity to the estuary (approx. 1200 feet) and based on the regional flow direction.

Treatment and Disposal of Affected Material:

Material	Amount (include units)	Action (Treatment of Disposal w/destination)	Date
Tanks & Piping	2-500 gallon 1-2000 gallon	Disposed to Erickson 255 Parr Blvd., Richmond	4/15/93
Soil	174 tons	Recycled at Port Costa Materials, 9000 Carquinez Scenic Dr., Port Costa	12/20/93
Water	1275 gallons	Recycled at Alviso Ind. Oil Co.,5002 Archer St., Alviso CA	1/12/88

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (ppm)			Water (ppm)	
	Before	After		Before	After
TPH (Gas)	4200	16		3.9	ND
TPH (Diesel)	7800	630	Pit sample	22.0	ND
Benzene	ND	0.021		0.30	ND
Toluene	4.7	0.027		0.026	ND
Ethylbenzene	73	0.037		0.15	ND
Xylenes	380	0.024		0.40	ND
HC Oil and Grease (TRPH)	560	220		NA	
Semi-volatiles	ND in stockpile soil				
Volatile Organics	ND in stockpile soil				

Comments (Depth of Remediation, etc.): The "before" water sample was a grab water sample from the tank pit after removal of 1275 gallons of water. The "after" water sample is from monitoring well data.

IV. CLOSURE

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

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

Does corrective action protect public health for current land use? YES

Site management requirements:

Leaking Underground Fuel Storage Tank Program

Should corrective action be reviewed if land use changes? Yes

Monitoring wells Decommisioned: NO

Number Decommisioned: 0 Number Retained: 1

List enforcement actions taken: None

List enforcement actions rescinded:None

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Barney M. Chan Title: Hazardous Materials Specialist

Signature: Barney M Chan Date: 12/13/94

Reviewed by

Name: Jennifer Eberle Title: Hazardous Materials Specialist

Signature: JEberle Date: 12-13-94

Name: Eva Chu Title: Hazardous Materials Specialist

Signature: Eva Chu Date: 11/16/94

VI. RWQCB NOTIFICATION

Date Submitted to RB: RB Response:

RWQCB Staff Name: K. Graves Title: AWRCE Date:

VII. ADDITIONAL COMMENTS, DATA, ETC.

Site Summary for California Stevedore and Ballast
4500 Tidewater Ave., Oakland CA 94601

This site currently is used for storage of portable buildings and office/warehouse space. The tanks removed had no recent history of usage.

On 4/13/93 two 500 gallon gasoline underground tanks and one 2000 gallon above ground diesel tank were removed from this site. The soil sample beneath the above ground tank did not detect any petroleum constituents. The two gasoline tanks were side by side in a common pit next to the above ground tank. Four sidewall samples were taken from the corners of the pit. A grab groundwater was also taken after a large volume of apparently contaminated water was vacuumed from the pit. The soil samples detected concentrations as high as 7800 ppm diesel, 4200 ppm gasoline, 560 ppm hydrocarbon oil and grease, and 4.7,25, 380 ppm TEX. No detectable benzene was found in the soil samples.

On 8/19/93 the tank pit was overexcavated. Contamination was fairly successful except for the eastern side of the pit where 800 ppm diesel, 100 ppm gasoline and 1200 ppm TRPH was detected. This area was overexcavated on October 6, 1993. Residual contamination in this area was reduced to 630 ppm diesel, 16 ppm gasoline and 90 ppm TRPH.

Based on the proximity of this site to the estuary (approx. 1200 feet) and the regional groundwater gradient, one monitoring well was installed within 10 feet of the excavation pit in the assumed downgradient direction (southwesterly). Four monitoring events have occurred and no gasoline, diesel or BTEX has been detected. TDS was run one quarter and found to be 2900 ppm, just below the unacceptable drinking water quality concentration of 3000 ppm. TRPH was not run in the monitoring well sampling based on the reduction of its concentration during overexcavation and the low solubility of this material.

Based on the extensive removal of contaminated soil and groundwater, it appears that the residual amount of petroleum hydrocarbon left in place is not impacting the groundwater, therefore, site closure is recommended.

TABLE 1
CUMULATIVE RESULTS OF LABORATORY ANALYSES OF SOIL SAMPLES
FROM FORMER FUEL TANKS EXCAVATION
4500 Tidewater Avenue
Oakland, California
(Page 1 of 2)

Sample Identification	TPHd	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TRPH
Petrotek Construction, April 1993							
SW Corner	5,000	4,100	<5.0	<5.0	73	<5.0	<600
SE Corner	7,800	580	<0.50	<0.50	<0.50	<0.50	<900
NE Corner	2,200	850	<0.50	<0.50	3.8	<0.50	560
NW Corner	380	4,200	<5.0	4.7	25	380	120
Diesel Tank	<10	<5.0	<0.05	<0.05	<0.05	<0.05	<20
Stockpile	2,100	590	<0.50	<0.50	<0.50	19	<300
Water *	22,000	3,900	300	26	150	400	NA
Dugan Associates, August 19, 1993							
S-43"-SE	63	9.5	<0.005	<0.005	<0.005	<0.005	160
S-40"-SC	33	1.2	0.015	<0.005	0.037	<0.005	<50
S-42"-SW	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<50
S-41"-WC	62	11	0.021	0.027	0.027	0.024	220
S-43"-NW	7.1	1.7	<0.005	0.007	0.010	0.009	<50
S-43"-NC	140	9.8	<0.005	<0.005	<0.005	<0.005	110
S-40"-NE	37	5.2	<0.005	0.009	<0.005	0.015	89
S-43"-EC	800	100	<0.02	<0.02	<0.02	<0.02	1,200

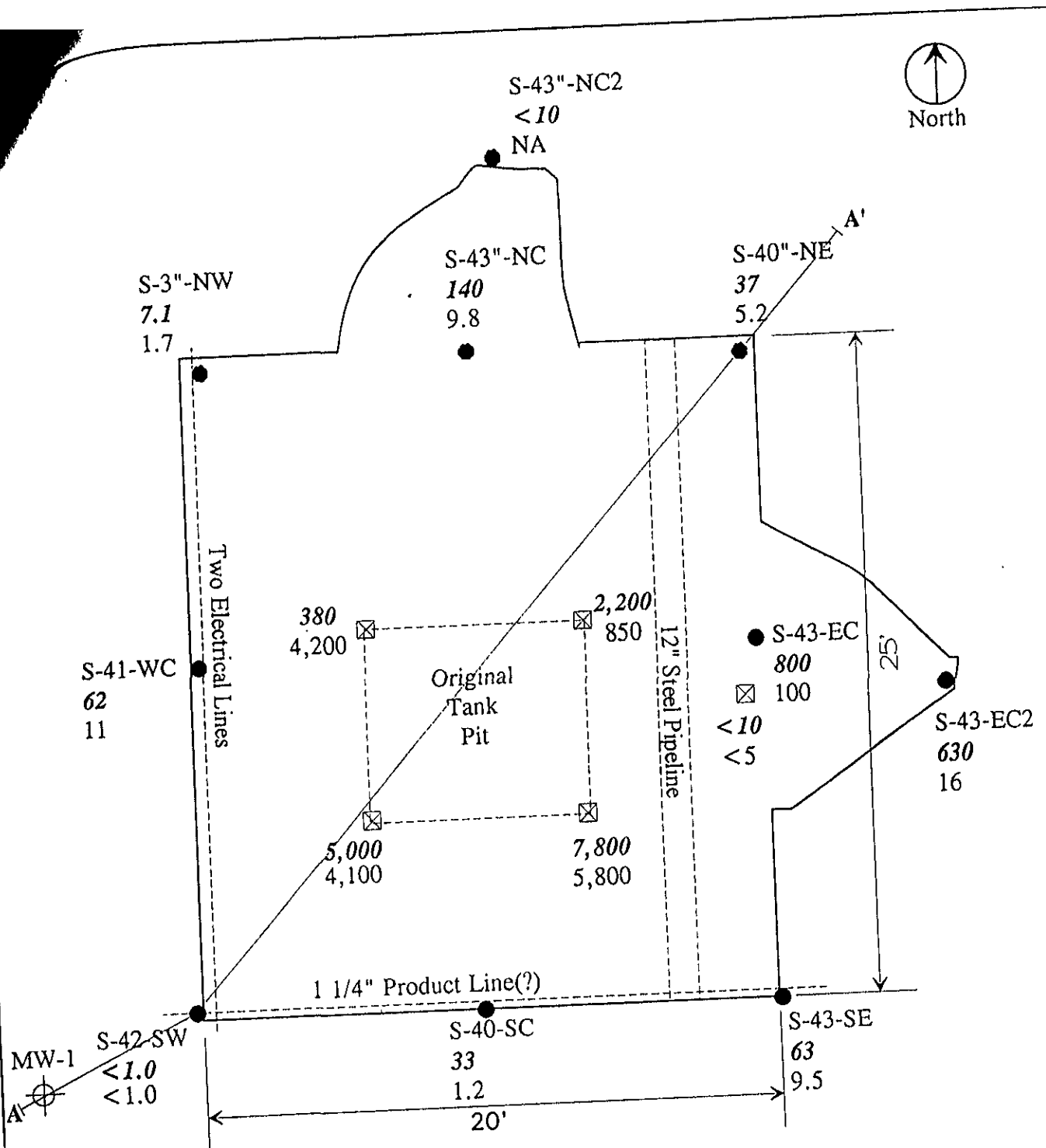
Notes: See page 2 of 2.

TABLE 1
CUMULATIVE RESULTS OF LABORATORY ANALYSES OF SOIL SAMPLES
FROM SOIL BORING B-1
4500 Tidewater Avenue
Oakland, California
(Page 2 of 2)

Sample Identification	TPHd	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TRPH
Dugan Associates, October 6, 1993							
S-43"-NC2	<10	NA	NA	NA	NA	NA	NA
S-43"-EC2	630	16	<0.005	<0.005	<0.005	0.009	90
Sp1[A,B,C,D]	840	25	<0.005	<0.005	<0.005	0.013	690
Sp1[A,B,C,D]	360	34	<0.005	0.022	0.014	0.081	510
Dugan Associates, February 17, 1994							
S-3½-B1	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	NA
S-5½-B1	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	NA
S-11½-B1	3.9	<1.0	<0.005	<0.005	<0.005	<0.005	NA

Soil results in milligrams per kilograms (mg/Kg) or parts per million (ppm).

TPHd: Total petroleum hydrocarbons as diesel (by GCFID Method 3510/3550).
TPHg: Total petroleum hydrocarbons as gasoline (by GCFID Method 8015/5030).
Benzene, toluene, ethylbenzene, and total xylenes (by EPA Method 8020).
TRPH: Total recoverable petroleum hydrocarbons (by EPA Method 5520). (TOG)
<: Less than the detection limit for the analysis method.



Legend

= Groundwater Monitoring Well
= Approximate location of Soil Sample (Petrotek, 4/93)
= Soil Sample (Dugan Associates, 8/19/93 & 10/6/93)
7,800 = Total Petroleum Hydrocarbons as Diesel (ppm)
5,800 = Total Hydrocarbons asGasoline (ppm)
A — A' = Stratigraphic Cross Section

DUGAN ASSOCIATES 1023B Martin Ave. Santa Clara, California.	Schematic Excavation Plan California Stevedore and Ballast Company 4500 Tidewater Avenue Oakland, California	FIGURE 2