ALAMEDA COUNTY HEALTH CARE SERVICES

AGENCY DAVID J. KEARS, Agency Director



DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
80 Swan Way, Rm 200
Oakland, CA 94621
(510) 271-4530

April 6, 1994 STID 4³⁶9

REMEDIAL ACTION COMPLETION CERTIFICATION

Mr. Charles Chamness P.O. Box 92007-WWPC Los Angeles, CA 90009

SUBJECT: Case Closure

FAA Oakland Airport, ALS #2 Facility

#1 Oakland Airport Dr., Oakland Int. Airport

Oakland CA 94621

Dear Mr. Chamness:

This letter confirms the completion of site investigation and remedial action for the former 2000 gallon diesel underground storage tank at the above site. With the provision that the information provided to this agency was accurate and representative of existing conditions, this office has determined that no further action is required at this time.

Based on the information submitted and current requirements, the RWQCB has also accepted the determination of this agency that no further action is required at this time. Further work could be required if conditions change or a water quality threat is discovered at the site.

If you have any questions regarding this letter, please give Barney Chan a call at (510) 271-4530.

Very truly yours,

PleAJL

Rafat/A. Shahid

Assistant Agency Director

cc: Edgar B. Howell, Chief, Hazardous Materials Division/files Rich Hiett, RWQCB

Mike Harper, SWRCB

J. Waldman, Advanced Sciences Inc., 4909 Murphy Canyon Rd.,
Suite 400, San Diego, CA 92123

N. Werner, Port of Oakland, 530 Water St., Oakland 94607

CASE CLOSURE SUMMARY Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION

Date: 2/1/93

Agency name: Alameda County-HazMat Address: 80 Swan Wy., Rm 200

City/State/Zip: Oakland Phone: (510) 271-4320

Responsible staff person: B. Chan Title: Hazardous Materials Spec.

II. CASE INFORMATION

Site facility name: FAA Oakland Airport ALS #2 Facility

Site facility address: #1 Airport Dr., Oakland Int'l. Airport

RB LUSTIS Case No: N/A Local Case No./LOP Case No.: 4369

URF filing date: 1/27/94 SWEEPS No: N/A

Responsible Parties: Addresses: Phone Numbers:

FAA-Mr. Charles Chamness P.O. Box 92007-WWPC Los Angeles, CA 90009

Tank
No:Size in
gal.:Contents:Closed in-place
or removed?:Date:12000dieselremoved4/14/92

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: unknown

Site characterization complete? YES

Date approved by oversight agency:

Monitoring Wells installed? YES Number: 3

Proper screened interval? YES

Highest GW depth below ground surface: 6.13' Lowest depth: 0.2'

Flow direction: southwesterly

Most sensitive current use: wetland for waterfowl

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Leaking Underground Fuel Storage Tank Program

III RELEASE AND SITE CHARACTERIZATION INFORMATION (Continued)

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) filed? Alameda County
80 Swan Wy., Rm 200
Oakland CA 94621

Treatment and Disposal of Affected Material:

<u>Material</u>	<u>Amount</u> (include units)	Action (Treatment Date of Disposal w/destination)
Tank	1-2000 gallon	Disposed to H&H Ship Service 4/14/92
Soil	53.25 tons	Disposed at Clean Soils, Inc 8/17/93 for recycling

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	•	Native Soil (ppm) <u>Before After</u>		Water (ppm) <u>Before After</u>	
TPH (Diesel)	0.30	ND	22	ND	
Benzene	ND	ND	0.0018	ND	
Toluene	ND	ND	0.0033	ND	
Xylene	ND	ND	0.023	ND	
Ethylbenzene	ND	ND	0.003	ND	

Comments (Depth of Remediation, etc.): See site summary

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: None

Should corrective action be reviewed if land use changes? NO

Leaking Underground Fuel Storage Tank Program

IV CLOSURE (Continued)

Monitoring wells Decommisioned: NO

Number Decommissioned: 0 Number Retained: 3

List enforcement actions taken: None

List enforcement actions rescinded: None

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Barney Chan Title: Hazardous Materials Specialist

Signature: Farme (Va Date: 3/3/94

Reviewed by

Name: E. Chu Title: Hazardous Materials Specialist

Signature: 05/11/1 Date: 3/3/94

Name: T. Peacock / Title: Sup. Haz Mat. Specialist

signature: Date: 3-3-94

VI. RWQCB NOTIFICATION

Date Submitted to RB: March 4, 1994 RB Response:

RWQCB Staff Name: R. Hiett Title: San. Engineering Assoc. Date:

VII. ADDITIONAL COMMENTS, DATA, ETC.

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Site Summary, FAA-ALS #2 Facility, StID # 4369

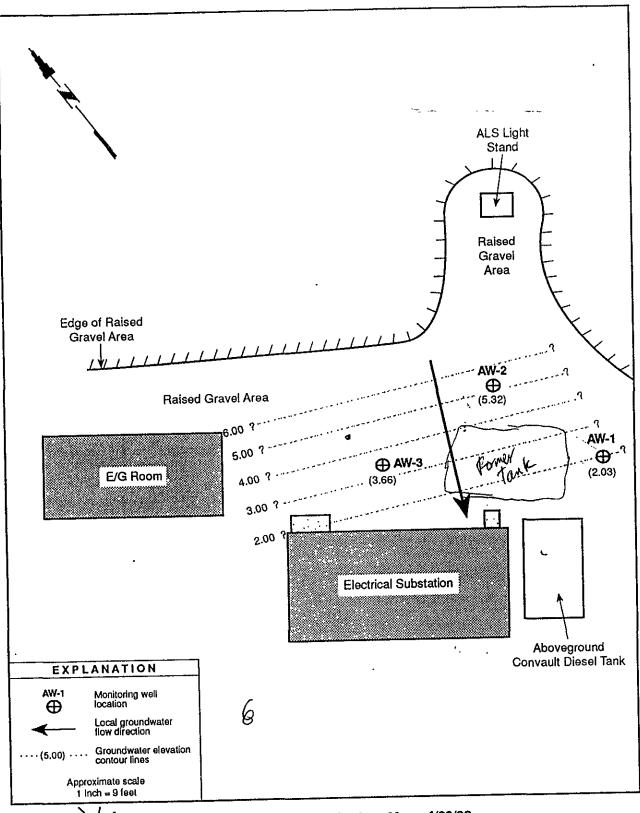
4/14/92 A 2000 gallon diesel tank used to fuel an emergency generator was removed from this site. Groundwater was encountered. Four sidewall soil samples were taken. Results were ND to 0.3 mg/kg diesel and ND for BTEX in the soil samples. A soil sample collected from the excavated stockpile soil exhibited 1100 ppm diesel and 0.0018, 0.033, 0.003 and 0.023 ppm BTEX respectively. A grab groundwater sample detected 22 mg/l diesel, and 1.8, 3.3, 3.0 and 23 ug/l BTEX respectively. Stockpiled soils reused due to instability of excavation against the recommendation of ACEH. Susan Hugo witnessed the tank removal.

8/13/92 Three monitoring wells, AW-1 through AW-3 installed around the tank pit. Soil samples from these wells contained no detectable hydrocarbons. Quarterly monitoring occurred on Oct. 14, 1992, January 19, April 29 and July 14, 1993. All results were ND for TPHd and BTEX.

6/30/93 Tank pit was overexcavated to 9', to the concrete hold-down slab. Isolated areas of contamination were noticed. Four soil samples from the corners of the excavation were sampled. Half of the piping run from the pit was removed, while the other half was left in place and capped due to the presence of subsurface utilities. One soil sample was taken under the end of the residual piping. All five soil samples were ND for TPHd and BTEX. The stockpiled soils were transported to Clean Soil Inc. for recycling.

One problem with this site is that the gradient is southwesterly as determined by MW elevation data. This means that a downgradient location to the former tank pit is under the electrical substation or under the above ground diesel tank. Groundwater downgradient to the former tank has really never been monitored. It does, however, appear that the surrounding soil has not been impacted. The groundwater in this area is close to the San Francisco Bay, has high conductivity and likely high dissolved solids. Although no monitoring well exists downgradient to the former tank, the two cross-gradient wells would likely detect a portion of the plume downgradient to the tank. In addition, the "groundwater" sample initially collected at the time of the removal did not reappear when the pit was overexcavated and exposed to the same depth.

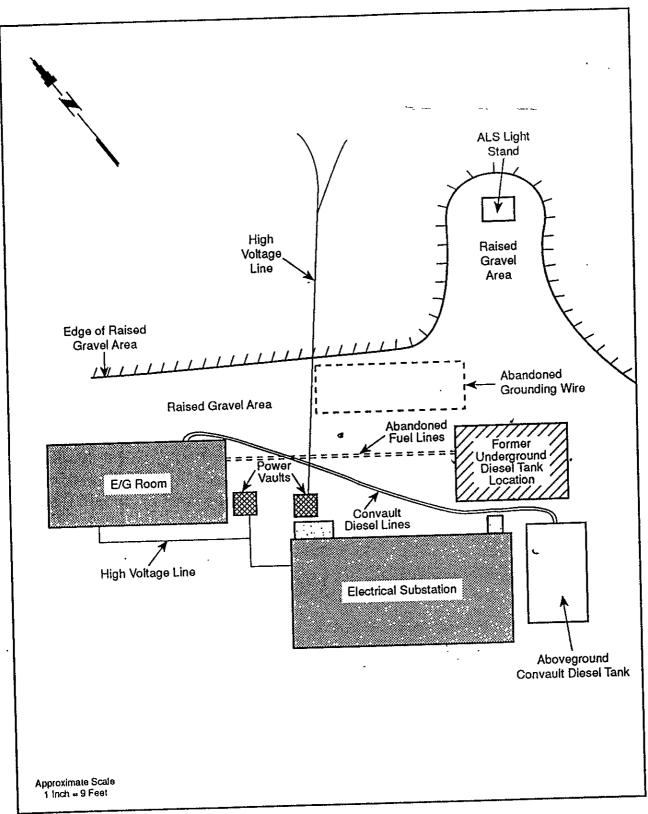
site maps included





Potentiometric Surface Map - 4/29/93 Federal Aviation Administration Oakland International Airport ALS #2 Facility

PROJECT NO. 9788-73 FIGURE 3





Site Plan
Federal Aviation Administration
Oakland International Airport ALS #2 Facility

PROJECT NO. 9788-59

FIGURE 2