

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

SANTA ANA REGION

3737 MAIN STREET, SUITE 500
RIVERSIDE, CA 92501-3339
PHONE: (909) 782-4130
FAX: (909) 781-6288



May 15, 1998

Mr. Wayne D. Lee
Assistant Chief of Staff
Environment & Safety
Marine Corps Air Station EL Toro
P. O. Box 95001
Santa Ana, CA 92709-5001

**SUBJECT: CLOSURE OF UNDERGROUND STORAGE TANK (UST) CASE,
UST SITE 380A, MARINE CORPS AIR STATION EL TORO,
RWQCB CASE NO. 083003166T**

Dear Mr. Lee:

This letter confirms the completion of the site investigation and remedial action which were required to mitigate the releases from the underground storage tank formerly located at the above described location. Enclosed is the Case Closure Summary for the referenced site for your records.

A 10,000 gallon diesel UST was removed and soil samples were collected. Benzene, toluene, ethylbenzene and xylene were not detected in the soil samples collected from bottom of the excavation. Total petroleum hydrocarbons (TPH) as diesel ranged from non-detect to 15,000 mg/kg. Very low concentrations of toluene were detected in the spoils pile. Four soil borings were drilled to depths of 15 to 56.5 feet and soil samples were collected for analysis. The highest TPH concentration reported was 23,000 mg/kg, which was detected in a soil sample collected at 29 feet below grade. The deepest soil sample was collected at 56.5 feet below grade and the analytical result was 140 mg/kg for TPH as diesel. A leachability analysis (EPA Method 1312) was performed on one soil sample collected at 31.5 feet below grade from soil boring 380SB02B. The TPH concentration in the soil sample was 3,000 mg/kg and the TPH concentration in the leachate was 19 mg/l.

Based on the information provided in the Site Assessment Report Former Underground Storage Tank Site 380A, Marine Corps Air Station El Toro dated March 5, 1998 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 storage tank release is required.

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

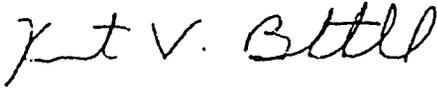
Mr. Lee

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Please contact Patricia Hannon at (909) 782-4498 if you have any questions regarding this matter.

Sincerely,



for Gerard J. Thibeault
Executive Officer

Attachment: Case Closure Summary

cc: Marine Corps Air Station El Toro - Lt. Hope Katcherian (w/attachment)
Orange County Health Care Agency - Bill Diekman (w/attachment)
State Water Resources Control Board, Division of Clean Water Programs - John Adams,
Jr. (w/attachment)

CASE CLOSURE SUMMARY

Leaking Underground Fuel Tank Program

I. Agency Information

DATE: 12/1/98

AGENCY NAME	California Regional Water Quality Control Board - Santa Ana Region	STAFF	Patricia Hannon
ADDRESS	3737 Main St. Suite 500	TITLE	Associate Engineering Geologist
CITY/STATE/ZIP	Riverside CA 92501-3339	PHONE	(909) 782-4498, main # 782-4130

II. Case Information

SITE NAME	Marine Corps Air Station El Toro		
LOCATION	UST Site 380A near Desert Storm Road and North Marine Way		
REGIONAL BOARD CASE #	083003166T	LOCAL AGENCY CASE #	NA
RESPONSIBLE PARTIES	ADDRESS	PHONE NUMBER	
Marine Corps Air Station El Toro contact: Wayne D. Lee	P. O. Box 95001 Santa Ana, CA 92709-5001		
TANK NO.	SIZE IN GALLONS	CONTENTS	CLOSED IN PLACE/ REMOVED
380A	10,000	diesel	removed
			DATE
			July and August 1993

III. Release and Site Characterization Information

SITE CHARACTERIZATION COMPLETE?	yes	DATE APPROVED BY AGENCY	05/06/98
MONITORING WELLS INSTALLED?	no	NUMBER	na
		PROPER SCREEN INTERVAL?	na
DEEPEST GW DEPTH	NA	SHALLOWEST GW DEPTH	approximately 220 feet
GROUNDWATER, MOST SENSITIVE CURRENT USE:	municipal	GW FLOW DIRECTION	northwest
DRINKING WATER WELL(S) AFFECTED?	no	AQUIFER NAME	
IS SURFACE WATER AFFECTED?	no	NEAREST/AFFECTED SW NAME	
OFF-SITE BENEFICIAL USE IMPACTS (ADDRESSES/LOCATIONS):	none		
REPORT(S) ON FILE?	yes	WHERE IS/ARE REPORT(S) FILED?	R.W.Q.C.B. - Santa Ana Region
TREATMENT AND DISPOSAL OF AFFECTED MATERIAL			
MATERIAL	AMOUNT	ACTION (TREATMENT, DISPOSAL) DESTINATION	DATE
TANK/PIPING	1	not available	
FREE PRODUCT	none		
SOIL			
GROUNDWATER			

II. Release and Site Characterization Information (Continued)

Maximum Document Contaminant Concentration - Before and After Cleanup				
CONTAMINANT	SOIL (mg/kg)		WATER (µg/L)	
	Soil samples collected from under the UST at 14 ft. b.g.	Soil sample collected from soil borings after removal of the UST.	INITIAL	CURRENT
BENZENE	ND	ND	NA	
TOLUENE	0.01	ND	NA	
ETHYLBENZENE	ND	ND	NA	
XYLENE	ND	ND	NA	
MTBE	NA	NA	NA	
TPH - diesel	15,000	23,000 (C ₁₂ - C ₂₀)	NA	
TPH- motor oil	140	NA	NA	
COMMENTS REGARDING INVESTIGATION AND REMEDIATION				
<p>A 10,000 gallon diesel UST was removed and soil samples were collected. The tank excavation measured 14 feet deep, 15 ft wide by 20 feet long. Benzene, toluene, ethylbenzene and xylene were not detected in the soil samples collected from the bottom of the excavation. Total petroleum hydrocarbons as diesel (TPH-D) ranged from non-detect to 15,000 mg/kg. Very low concentrations of toluene were detected in the spoils pile. Four soil borings were drilled to depths of 15 to 56.5 feet and soil samples were collected for analysis. The highest TPH concentration reported was 23,000 mg/kg which was detected in a soil samples collected at 29 feet below grade. The deepest soil sample was collected at 56.5 feet below grade and the analytical results was 140 mg/kg for total petroleum hydrocarbons as diesel. A leachability analysis (EPA Method 1312) was performed on one soil sample collected at 31.5 feet b.g. from soil boring 380SB02B. The TPH concentration in the soil sample was 3,000 mg/kg and the TPH concentration in the leachate was 19 mg/L.</p> <p>The case is recommended for closure based on the depth to water and absence of volatile petroleum hydrocarbons in the soil samples collected.</p>				

IV. Closure

DOES COMPLETED CORRECTIVE ACTION PROTECT <i>EXISTING</i> BENEFICIAL USES PER REGIONAL BOARD BASIN PLAN?			yes	
DOES COMPLETED CORRECTIVE ACTION PROTECT <i>POTENTIAL</i> BENEFICIAL USES PER THE REGIONAL BOARD BASIN PLAN?			yes	
MONITORING WELLS DECOMMISSIONED		NUMBER DECOMMISSIONED		NUMBER RETAINED
LIST ENFORCEMENT ACTIONS TAKEN		none		
LIST ENFORCEMENT ACTIONS RESCINDED				

V. Regional Board Representative Data

STAFF	Patricia Hannon	TITLE	Associate Engineering Geologist
SIGNATURE	<i>Patricia Hannon</i>	DATE	5/15/98
SUPERVISOR	Michael Adackapara	TITLE	Senior WRC Engineer
SIGNATURE	<i>m adackapara</i>	DATE	5/15/98