

Case Closure Summary

UNDERGROUND STORAGE TANK (UST) PROGRAM

I. CASE INFORMATION

DATE: September 10, 2004

Site Name: UST 86, Defense Fuel Support Point, Naval Base Point Loma, USN-FISC Fuel Farm		
Site Address: 207 Rosecrans Street, San Diego, CA 92106		
Responsible Party Name: Commander, Navy Region Southwest, Environmental Code N4512.TM		
Responsible Party Address: 33000 Nixie Way, Bldg. 50, Ste. 326, San Diego, CA 92147-5110		
Current Land Use: Active Military Base		RP Phone Number: 619-524-6399 (Theresa Morley)
RWQCB File Number: 9UT3641	Local Case Number: H80028-013	RWQCB Staff: Laurie Walsh
Basin Number: 908.10	Basin Uses: Non Beneficial Use Ground Water Basin	

II. RELEASE AND SITE CHARACTERIZATION INFORMATION

Description of the unauthorized release (cause, release date, source[s]): Evidence for a release of motor fuel (gasoline) was reported in 1976 in the exterior concrete plug of the sludge piping into the valve pit. Tank 86 was drained, cleaned, repaired, and returned to service. After 1990, the tank was used to store JP-5/diesel. A release was reported in 1996, after which the tank was drained, cleaned, relined, and fitted with leak detection equipment.

Contaminant[s] identified and amount leaked: Fuel released is minor. Soil sampling results indicate non-detectable levels of petroleum hydrocarbon waste as diesel and gasoline in samples located less than 50 feet from the tank. Dissolved concentrations of benzene are reported at 5 ug/l and toluene at 2 ug/l. The exact amount of petroleum hydrocarbons released is unknown.

Description of the soil/geology: Fill over Cabrillo and Point Loma Formations. Fill, upper 20 feet, is loose silty sand, with increasing clay content with depth. Formations are hard silty clay to very dense sand, with disrupted bedding planes suggestive of recent land sliding at 70 feet.

Is soil contamination completely delineated (to what levels)? Yes. TPH_g ND<0.5 mg/kg, TPH_d ND<0.5 mg/kg.

Areal extent? 10 feet diameter

Vertical extent? Approximately 5 feet

Est. Volume of contaminated soil left on site and concentration: Contamination encountered in soil and groundwater is minimal. TPH_g and TPH_d were at non-detectable levels in soil samples located 10 feet from the tank. The volume of contaminated soil is minor and estimated to be less than 50 cubic yards¹.

Is groundwater contamination completely delineated (to what levels)? Yes. TPH_g ND<500 ug/l, TPH_d ND<500 ug/l, BTEX ND < 1.0 ug/l and MTBE ND < 1.0 ug/l.

Monitoring wells installed, properly permitted? None

Number of monitoring wells: None

Depth to groundwater: 90.4 feet bgs

Seasonal or tidal fluctuation: Not measured.

Groundwater flow direction: East northeast

Gradient: Not measured.

Is groundwater or surface water impacted? Groundwater

Is groundwater contamination contained on site? Yes, TPH_g ND<500 ug/l, TPH_d ND<500 ug/l, Benzene – 5 ug/l, Toluene – 2 ug/l, Ethylbenzene ND< 1.0 ug/l, and Xylene ND<1.0 ug/l. MTBE ND<1.0 ug/l.

Nearest receptor (Inland Surface Water, Bay, Drinking Water Wells, etc.): San Diego Bay, over 1,100 feet downgradient.

Notes:

¹ Estimated quantity of soil containing petroleum hydrocarbon was calculated using the volume of a cylinder measuring 10 feet in diameter and being 5 feet tall. The 5 feet dimension is assumed to be the 5 feet above the depth to ground water (e.g. 85 to 90 feet below ground surface).

III. MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATION

Contaminant	Soil (mg/kg) initial	Soil (mg/kg) current	USEPA Soil Residential PRGs ¹	Water (ug/l) initial	Water (ug/l) current	RWQCB Interim Guidance ² ug/l
TPH-gasoline	ND<10	ND<10	NE	ND<500	ND<500	NE
TPH-diesel	ND<10	ND<10	NE	ND<500	ND<500	NE
Benzene	NA	NA	0.6	5	5	400
Toluene	NA	NA	520	2	2	5,000
Ethylbenzene	NA	NA	8.9	ND<1	ND<1	430
Xylenes, total	NA	NA	270	ND<2	ND<2	10,000
Naphthalene	NA	NA	56	ND<3	ND<3	2,350
PNAs	NA	NA	NE	NA	NA	300
MTBE	NA	NA	62 (17 CalMod)	ND<1	ND<1	13 ³

Notes: NA - Not Analyzed

NE - Not Established

ND - Not Detected

¹US EPA Preliminary Remediation Goals 2002 Update

²RWQCB Interim Guidance for Low Risk Fuel Release Sites - 1996, 2001 Update

³California Department of Health Services - Public Health Goal

IV. TREATMENT AND DISPOSAL OF AFFECTED MATERIAL

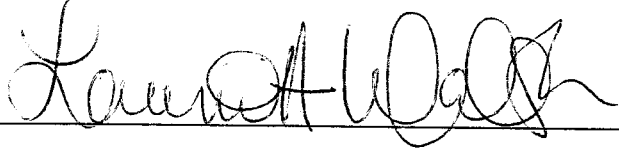
Material	Amount (include units)	Action (treatment or disposal)	Concentration	Date
<i>Soil</i>	None	NA	NA	NA
<i>Groundwater</i>	None	NA	NA	NA
<i>Free Product</i>	None	NA	NA	NA
<i>Barrel(s)</i>	NA	NA	NA	NA
<i>Tank(s)</i>	NA	NA	NA	NA
<i>Piping</i>	NA	NA	NA	NA

Notes: NA - Not Applicable

V. CLOSURE

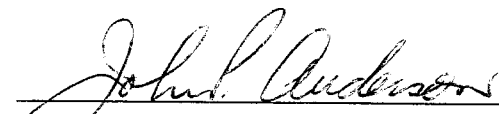
<p><i>Does completed corrective action protect beneficial uses per the RWQCB Basin Plan?</i> Yes. Adequate information has been submitted to demonstrate that existing site conditions are protective of human health and the environment and that contaminant concentrations in ground water are at levels below those determined to be protective of human health and the environment. The dissolved petroleum hydrocarbon plume has been delineated and is stable, and BTEX, and, naphthalene, are below the Regional Board Interim Guidance on Required Cleanup at Low-Risk Fuel Contaminated Sites (1996, as amended). Ground water has no designated beneficial uses and is not used for drinking.</p>		
<p><i>Should corrective action be reviewed if land use changes?</i> Yes</p>		
<p><i>Monitoring wells decommissioned?</i> 0</p>	<p><i>Number decommissioned:</i> 0</p>	<p><i>Number retained:</i> 0</p>
<p><i>Enforcement actions taken:</i> None</p>		
<p><i>Enforcement actions rescinded:</i> None</p>		

VI. Signature of Reviewer

 _____ Date September 10, 2004

Laurie A. Walsh
 Water Resource Control Engineer
 Site Mitigation and Cleanup Unit

VII. Signature of Senior Staff

 _____ Date September 10, 2004

John P. Anderson
 Senior Engineering Geologist
 Site Mitigation and Cleanup Unit