

Case Closure Summary

UNDERGROUND STORAGE TANK (UST) PROGRAM

I. CASE INFORMATION

DATE: September 10, 2004

Site Name: UST 88, 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: 9UT3643	Local Case Number: H80028-015	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]): Tank 88 was used to store JP-5 since 1989. Evidence for a release of was reported in 1996, after which the tank was drained, cleaned, relined, and fitted with leak detection equipment.	
Contaminant[s] identified and amount leaked: Soil sampling results indicate non-detectable levels of petroleum hydrocarbon waste as JP-5/diesel and gasoline in soil samples located less than 100 feet from the tank. Dissolved concentrations of BTEX are reported at non detect <10ug/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<10 mg/kg, TPH _d ND<10 mg/kg.	
Areal extent? 50 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 100 feet from the tank. The volume of contaminated soil remaining is estimated to be less than 400 cubic yards ¹ .	
Is groundwater contamination completely delineated (to what levels)? Yes. TPH _g ND< 500 ug/l, TPH _d ND <500 ug/l, BTEX ND <10 ug/l, and MTBE ND <10 ug/l.	
Monitoring wells installed, properly permitted? None	Number of monitoring wells: None
Depth to groundwater: 62.6 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, BTEX ND < 10 ug/l and MTBE ND<10 ug/l.	
Nearest receptor (Inland Surface Water, Bay, Drinking Water Wells, etc.): San Diego Bay, approximately 800 feet downgradient.	

Notes:

¹ It is noted that in February 2001, a hole in the product pipeline leading up to the tank was repaired. As part of the repair, soil was removed from an excavation about 50 feet wide and about 60 feet down slope. The depth at the point of connection with the tank is approximately 20 feet below ground surface. Total yardage removed would be about 370 cubic yards. (Calculation: 1/6 [1/2 the length due to the slope, and 1/3 the width to account for excavation layback] of the rectangular prism.) It is estimated that approximately 80

percent of the excavated soil was used as backfill. The contaminated soil removed and disposed of off site is estimated to be have been 75 yd³.

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	130	130	NE	1,780	1,780	NE
TPH-diesel	400	400	NE	2,800	2,800	NE
Benzene	NA	NA	0.6	ND<10	ND<10	400
Toluene	NA	NA	520	ND<10	ND<10	5,000
Ethylbenzene	NA	NA	8.9	ND<10	ND<10	430
Xylenes, total	NA	NA	270	ND<10	ND<10	10,000
Naphthalene	NA	NA	56	ND<10	ND<10	2,350
PNAs	NA	NA	NE	NA	NA	300
MTBE	NA	NA	62 (17 CalMod)	ND<10	ND<10	13 ⁵

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

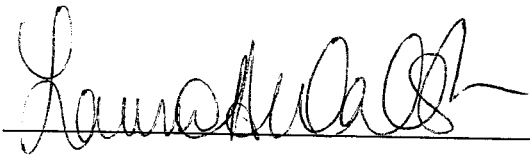
Material	Amount (include units)	Action (treatment or disposal)	Concentration	Date
Soil	None	NA	NA	NA
Groundwater	None	NA	NA	NA
Free Product	None	NA	NA	NA
Barrel(s)	NA	NA	NA	NA
Tank(s)	NA	NA	NA	NA
Piping	NA	NA	NA	NA

Notes: NA – Not Applicable

V. CLOSURE

<p>Does completed corrective action protect beneficial uses per the RWQCB Basin Plan? 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>Should corrective action be reviewed if land use changes? Yes</p>		
<p>Monitoring wells decommissioned? 0</p>	<p>Number decommissioned: 0</p>	<p>Number retained: 0</p>
<p>Enforcement actions taken: None</p>		
<p>Enforcement actions rescinded: 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