Norwalk Tank Farm Update

Defense Energy Support Center-Americas West Norwalk Tank Farm Restoration Advisory Board

April 22, 2004



Presentation Overview

Topics to be Covered

- Central Plume Remediation System Update
- Oily Waste Area
 - Truck Fill Stand VES Implementation
 - Aboveground Storage Tanks Activities
 - Eastern Boundary Well Installations

Central Plume Remediation

- System Performance First Quarter 2004
 - Total Hydrocarbons Mass Removed: 3,373 gallons
 - Approx. 805 gallons recycled and destroyed
 - 0 gallons of free product recovered
 - 805 gallons of volatile hydrocarbons recovered through soil vapor extraction
 - 0 gallon of dissolved phase hydrocarbons recovered
 - Estimated 2,568 gallons of hydrocarbons destroyed due to enhanced biodegradation
 - 26,387 gallons of water treated

Central Plume Remediation

- System Performance since April 1996
 - Total Hydrocarbons Mass Removed: 261,367 gallons
 - Approx. 143,475 gallons recycled and destroyed
 - 55,536 gallons of free product recovered
 - 86,542 gallons of volatile hydrocarbons recovered through soil vapor extraction
 - 1,397 gallons of dissolved phase hydrocarbons recovered
 - Estimated 117,892 gallons of hydrocarbons destroyed due to enhanced biodegradation
 - 42.2 M gallons of water treated



Oily Waste Area

Report submitted to RWQCB in February
Findings from the two soil borings installed
VOCs at surface and at GW; none in between
Metals within CA background concentrations
No leaching potential to the GW
No further action recommended
Awaiting RWQCB response

Truck Fill Stand VES Implementation

- Vapor extraction system installed at former truck rack
 - 5 soil borings
 - 3 vapor monitoring points
 - 8 vapor extraction wells (incl. 2 existing)
 - Connected using HDPE pipe to Central Treatment Plant
 - Field measurements indicate elevated vapor concentrations--Awaiting laboratory results Extraction started on April 20

FIGURE 1 – HDPE PIPE INSTALLATION



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Aboveground Storage Tanks Activities



FIGURE 1 – HYDRAULIC SHEAR CUT



FIGURE 3 – FLOATING ROOF INSIDE OF TANK





FIGURE 4 – FLOATING ROOFTOP DEBRIS



FIGURE 5 – HAULING OF DEBRIS



Eastern Boundary Well Installations

- Installed April 14
- Wells developed April 26
- Soil and groundwater sample results will be available at a later date