Norwalk Tank Farm Update

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

April 27, 2006



Presentation Overview

Topics to be Covered

- Central plume remediation system update
- General site activities
- Eastern Boundary Area Update

Central Plume Remediation

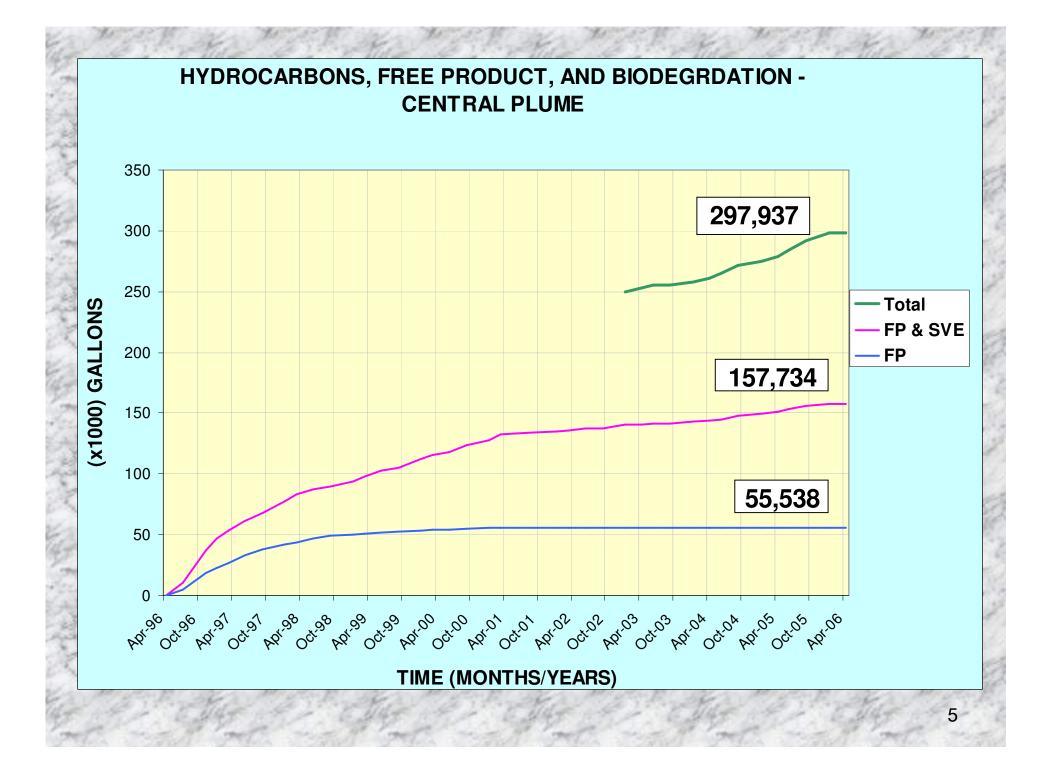
- System Performance First Quarter 2006
 Total Hydrocarbons Removed: 5,866 gallons
 No gallons of hydrocarbons recycled/destroyed by FPR/GWT system
 - O gallons of water treated

Central Plume Remediation

- System Performance since April 1996
 - Total Hydrocarbons Mass Removed: 297,937 gallons.
 - Approx. 157,734 gallons recycled and destroyed
 - 55,538 gallons of free product recovered
 - 1,397 gallons of dissolved-phase hydrocarbons recovered
 - 100,799 gallons of volatile hydrocarbons recovered through SVE

Estimated 140,000+ gallons of hydrocarbons destroyed due to enhanced biodegradation

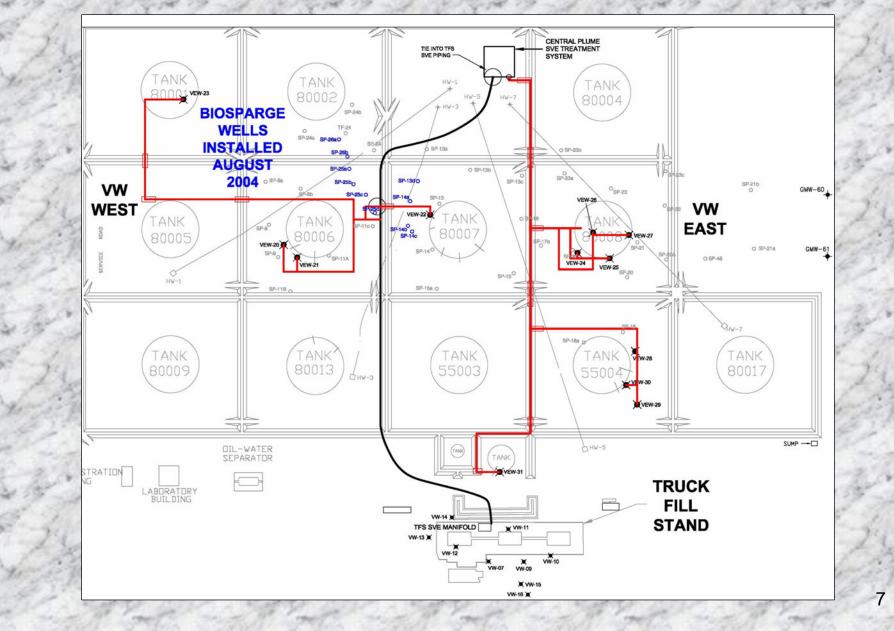
42.2 M gallons of water treated



Remediation Optimization

- Continued soil remediation through SVE.
 - SVE removed ~600 gallons within tank farm and water tank
 - SVE removed > 2800 gallons from truck fill stand (TFS)
- Continued operation of biosparging wells Working to update DFSP groundwater treatment system PLC controls to allow continued extraction from Total Fluid (TF) wells

Layout of DESC Remedial Systems



General Site Activities

System Conversion to Bioventing
Work began April 25, 2006 with dismantling inlet to THERMOX.
Vacuum blower will be turned around to introduce oxygen into vapor extraction wells.

Monitoring following system conversion will establish bioventing schedule.

System Conversion













General Site Activities

Re-programming the PLC

- Ladder logic has been entered into the EPROM.
- Electrician scheduled to rewire system first week of May.
- FPR/GWT system will be turned back on following rewire.
- Effluent water monitoring will determine effectiveness of system and arsenic removal drum.

Eastern Boundary Update

Access Agreement with the City of Norwalk is still pending for final approval.

Remediation system expansion into the Eastern Boundary area is funded, and is in progress.

Both biosparging and bioventing will be employed to treat the soil and groundwater in this area.

Discussion

