Norwalk Tank Farm Update

Presented to the Norwalk Tank Farm Restoration Advisory Board

January 31, 2002

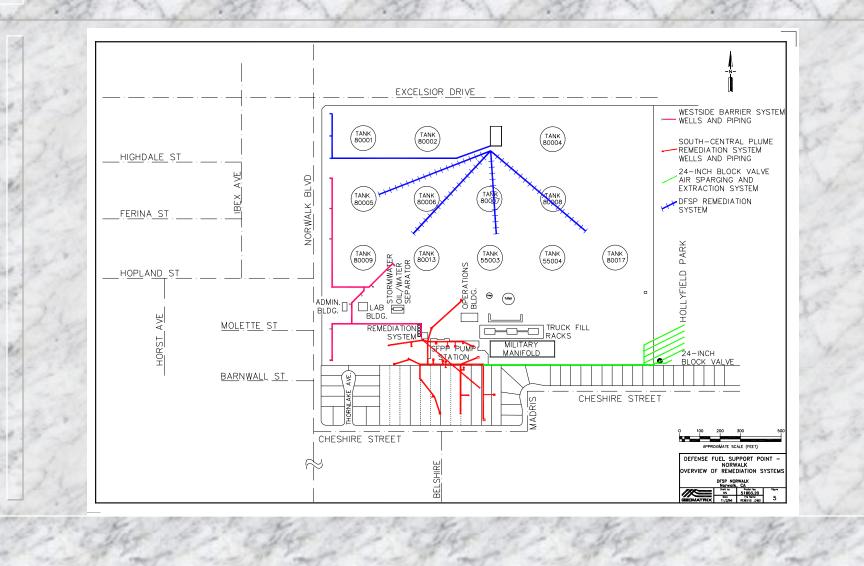
Presentation Overview

Topics to be Covered

Remediation Operations Update

November 2001 Semi-Annual MonitoringEvent

Map of Current Remediation Systems



Soil Vapor Extraction System

16 onsite and 7 offsite vapor extraction wells in the South-Central Plume area.

2 vapor extraction wells in the 24-inch Valve area.

Soil Vapor Extraction System Operations Summary

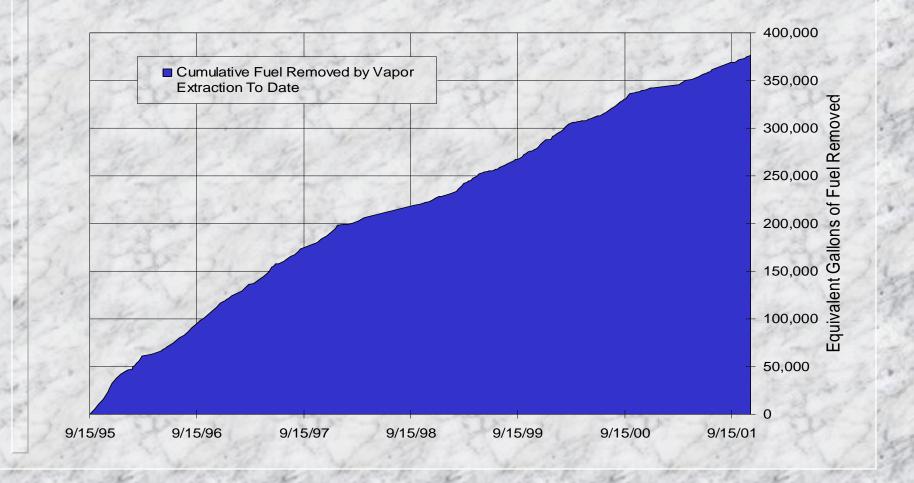
5,030 gallons equivalent of fuel removed from soil and destroyed by thermal oxidation since October 2001 RAB meeting.

376,421 gallons equivalent of fuel removed from soil and destroyed by thermal oxidation since September 1995.

System is currently off for repair of thermal oxidizer.

Soil Vapor Extraction System Operations Summary

Cumulative Fuel Removed by Vapor Extraction To Date



Groundwater/Product Extraction System

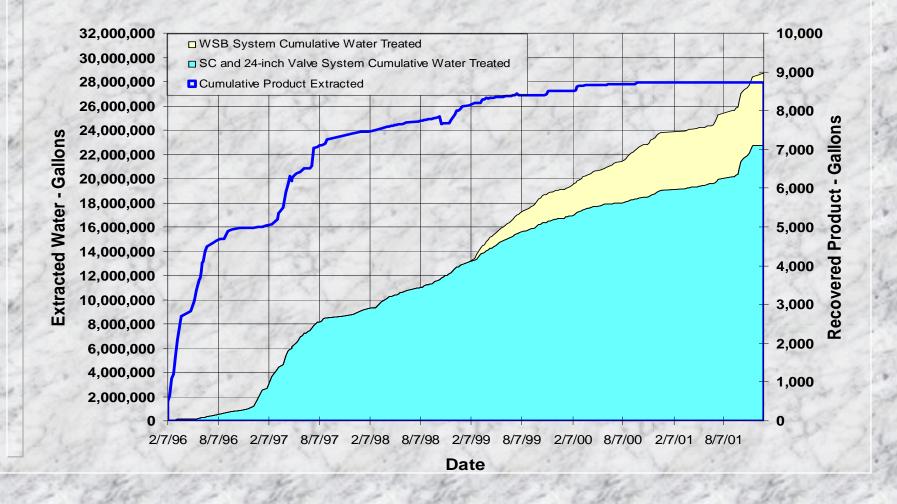
- 8 groundwater wells in West-Side Barrier area
- 6 groundwater/product wells in South-Central Plume area
- 2 groundwater/product wells in 24-inch Valve area

Groundwater/Product Extraction System Operations Summary

- Total groundwater extracted since October 2001 RAB meeting:
 South-Central Plume area, 798,003 gallons
 - 24-inch Valve area, 557,788 gallons
 - West-Side Barrier area, 311,349 gallons
 - No free product removed
 - Total groundwater extracted since September 1995:
 - South-Central Plume/24-inch Valve areas, 22.7 million gallons
 - West-Side Barrier area, 5.9 million gallons
 - Total groundwater extracted, more than 28.6 million gallons
 - 8,735 gallons free product removed
- The South-Central Plume/ 24-inch Valve system is currently off for repair of the thermal oxidizer.
 - The West-Side Barrier groundwater extraction system is currently operating independently of the thermal oxidizer.

Groundwater/Product Extraction System Operations Summary

Producted Extracted and Water Treated Summary



Remediation System Enhancements

- Redevelopment of West-Side Barrier wells BW-5 through
 BW-8 in October 2001 to enhance system operation.
- Successful installation and operation of flow meters in two
 West-Side Barrier wells. Will install additional flow
 meters in other West-Side Barrier wells.
- Reconfiguration of the West-Side Barrier system to operate independently from the South-Central remediation system.
- Optimized placement of extraction pumps in South-Central Plume area to improve plume containment.

November 2001 Semi-Annual Monitoring Event

- 97 wells sampled, including 5 Exposition wells.
- No chemicals detected in Exposition wells except low concentrations of benzene and toluene in one sample from EXP-3; no chemicals detected in duplicate sample from EXP-3.
- Free product detected in 17 wells.
- South-Central free product plume decreased in lateral extent along southern and eastern boundaries.
- No free product observed in 24-inch valve area.
- Two wells northwest of the 24-inch valve area had detectable concentrations of MTBE. Will resample wells MW-16 and MW-29 and selected wells in the vicinity.

November 2001 Semi-Annual Monitoring Event

- TPH concentrations decreased to non-detect levels in area near the West-Side Barrier wells.
- Non-detect TPH concentrations in wells GMW-26 and HL-3 indicate improved containment of South-Central plume.
- 1,2-DCA plume west of the site decreased since May 2001;
 1,2-DCA not detected in WCW-13.
 - 1,2-DCA concentration in WCW-3 has been decreasing since the startup of the West-Side Barrier wells and continues to decrease.