

DEFENSE LOGISTICS AGENCY



THE NATION'S COMBAT LOGISTICS SUPPORT AGENCY









DFSP Norwalk RESTORATION ADVISORY BOARD

February 28, 2019









Remediation of Upper 10 Feet



Soil Remediation Project Progress

- Western Area Report submitted to the RWQCB; Office of Environmental Health Hazard Assessment (OEHHA) has provided comments via memo to the RWQCB.
- OEHHA Conclusions:
 - According to the methods used by DLA the cancer risks and noncancer hazards were below acceptable benchmarks.
 - OEHHA methods showed the cancer risk above 1-in-a-million and noncancer hazard above 1.0 benchmark.
 - Difference in Results was Due to Differing Dilution Factors (Attenuation Factor).
 - Response Has Been Prepared and will be Discussed with OEHHA



Status of Remediation System



- Groundwater Remediation:
 - 1.2M gallons of groundwater extracted and treated in 2018
 - 79.3 MM gallons of groundwater extracted and treated since April 1996
- > SVE System:
 - 18,000 pounds of vapor-phase hydrocarbons removed in Q1-Q2 2018
 - 2.99MM pounds of vapor-phase hydrocarbons removed since April 1996
- LNAPL Recovery:
 - 2055 gallons of LNAPL were recovered during Q1-Q2 2018 via hand bailing, absorbent socks, and automatic pumping
 - 51,750 gallons of LNAPL recovered since April 1996



Status of Remediation System



- New 3,000-scfm Natural Gas-fired Thermal Oxidizer has been Constructed, Delivered, and Installed
- Natural Gas Services Upgrades have been Completed.
- System Start-up Schedule for March 5.
- System Start-up and Testing Protocol will be completed by end of March.
- After Start-up, Long-term, Full-time Operational Status will be Maintained.
- During System Start-up, Noise Monitoring will be Completed at Property Boundary (Excelsior Blvd) to Ensure that 65 Decibel Threshold is not Exceeded.



Status of Remediation System

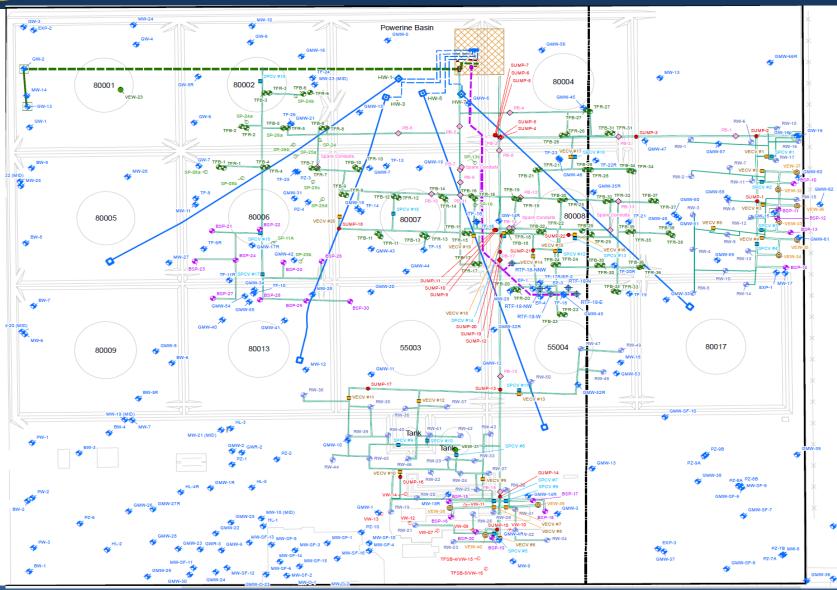


- Soil and Groundwater Treatment System Components:
 - > Three Horizontal Vapor Extraction Wells
 - ➤ 40 New Total Fluids (LNAPL and Groundwater) Recovery Wells Throughout the Tank Farm
 - ➢ 65 New Biosparge Wells To Enhance BioRemediation of Groundwater
 - ▶ 66 Vertical Vapor Extraction Wells To Enhance Remediation of Deeper Soils
- ➤ Planned for 2019:
 - ➤ Abandon HW-3 (Fill with Concrete Grout)
 - ➤ Replace HW-3 with Parallel Well, and Connect to SVE System.



Focus on Deep Soil and LNAPL







New Thermal Oxidizer

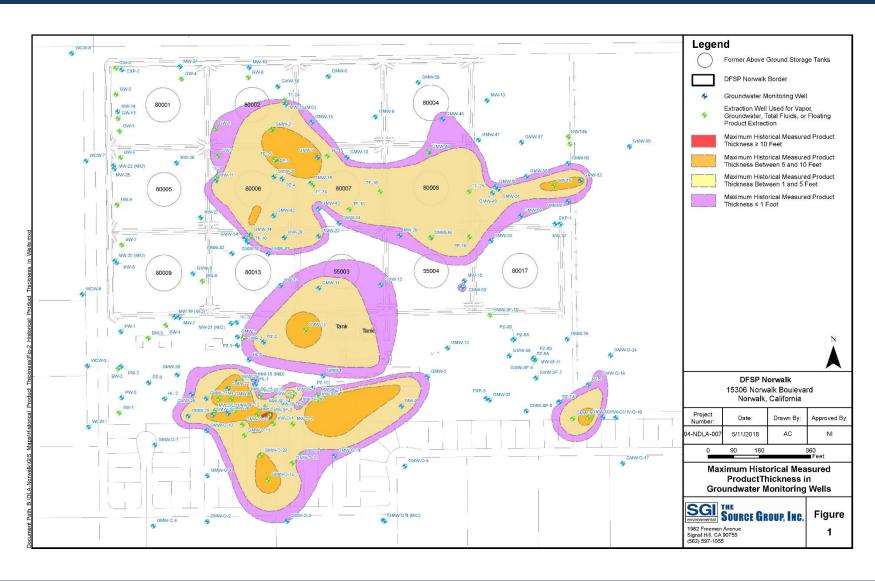






LNAPL - Maximum

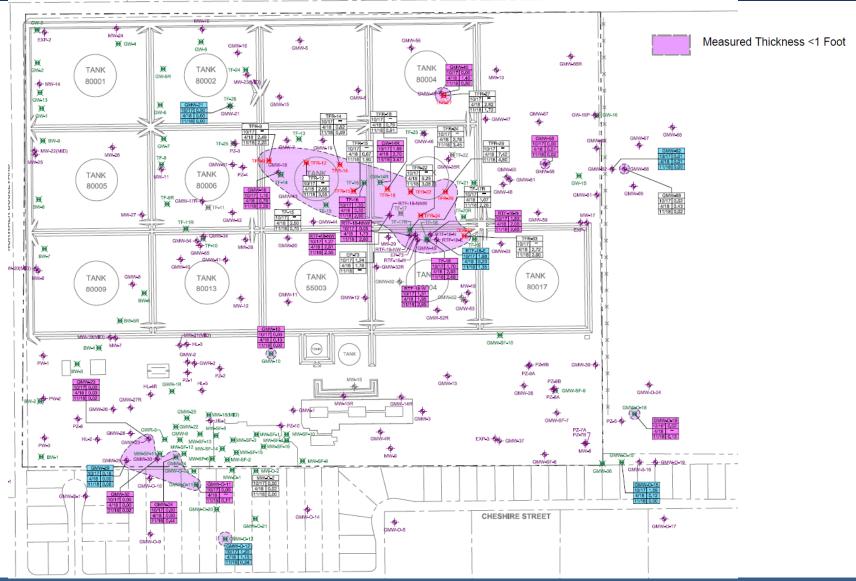






LNAPL - Current







Dust Control



- ➤ Problem: Santa Ana Winds Cause Dust Clouds to Form at the Site.
- >DLA Actions:
 - ➤In Response to City and Neighbor Concerns, in August 2018, DLA Began Twice-Weekly (mid-week and Fridays) Dust Control via Water Trucks
 - ➤ Water Truck Applications will be Conducted in Anticipation of Future Forecasted Santa Ana Conditions
 - ➤ Evaluating use of Environmentally Friendly, non-Toxic Soil Binder to Further Mitigate Dust During Wind Events





