

Naval Base Reuse – Investigations and Remediation

Former Naval Fuel Depot Point Molate, Richmond, California



base realignment and closure
waste characterization
remedial investigations
feasibility study and remedial design
public outreach and interaction

Terraphase is the environmental engineering consultant to the City of Richmond for the remediation and redevelopment of the former Naval Fuel Depot Point Molate. Terraphase principals assisted in negotiating a \$28.5 MM early transfer cooperative agreement grant from the United States Navy to complete the clean-up of Point Molate and negotiated the purchase of environmental insurance to cover any cost over-runs. Contaminants present at the Site include petroleum, chlorinated solvents, pesticides, asbestos and lead-based paint. Terraphase performs the following services at the Site:

- Operation, maintenance and monitoring of a 100-gpm groundwater treatment plant with associated groundwater barrier and NAPL removal.
- Operation, maintenance and monitoring of the closed base landfill, including quarterly inspections of the final cover and operation of the leachate recovery and treatment system.
- Pre-characterization, for waste-disposal purposes, of the 12-acre Installation Restoration Site 3. Characterization included advancing over 100 borings and developing a novel approach to assess mobility of petroleum products in the subsurface.
- Wetlands Permitting (USACE 404/RWQCB 401) and design of mitigation wetlands
- NPDES compliance reporting
- Site-wide groundwater monitoring
- Inspections of 20 large closed Underground Storage Tanks (2-million gallons each)
- In-situ remediation of chlorinated solvents utilizing direct injections into groundwater
- Oversight of \$10Mm removal action for petroleum contaminated soil along the waterfront
- Regular meetings with Point Molate Community Advisory Committee