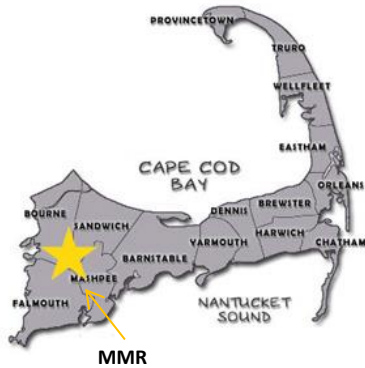


REMEDIATION PROJECTS
MMR / OTIS ANGB /
CAMP EDWARDS
CAPE COD, MASSACHUSETTS



CLIENTS

U.S. Army Corps of Engineers /
Prime Contractors

PROJECT FEATURES

- Hazmat Remediation
- Wetlands Protection
- Lead Contaminated Soil
Removal / Disposal
- Firing Range Cleanup
- UXO Clearance
- Road Removal
- Erosion Controls
- Site Restoration
- Critical Scheduling*

COMPLETION

2003 and 2010

** The 2003 project was partially performed on private property abutting the base. Limited access to the abutting property necessitated the project to be completed at an Emergency Response type rate, with critical scheduling deadlines.*

PROJECT DESCRIPTION

The Massachusetts Military Reservation (MMR), a 22,000-acre property that has been used for military training activities since 1911, is located over a sole-source aquifer that provides drinking water for residents of Cape Cod. The industrial area in the southern part of the reservation is where the U.S. Coast Guard, Army National Guard, and Otis ANGB facilities are located. Parts of the aquifer have been contaminated by fuel spills and other past activities at MMR.

The Air Force Center for Engineering and the Environment (AFCEE) Installation Restoration Program (IRP) is one of several organizations that address ongoing concerns for those who reside near the MMR in surrounding towns (Bourne, Falmouth, Mashpee and Sandwich). AFCEE is involved with 80 locations on the MMR that have been investigated, and 11 groundwater plumes are undergoing treatment. AFCEE has also taken appropriate measures to clean up and restore contaminated soil and groundwater. AFCEE, the U.S. Environmental Protection Agency (EPA), and the Mass. Department of Environmental Protection (MADEP) continue to eliminate exposure pathways to base-related contamination.

The National Guard was ordered to begin the process for the removal of unexploded ordnance from the base and to clean up contaminated groundwater and soils. The military was also ordered to use a detonation chamber at the base to destroy the +2,500 rounds of ammunition dug out of burial pits on the base during the course of the military's investigation of pollution at the firing ranges.

In 2003, TANTARA was retained as a subcontractor to complete **remediation of three below-grade observation bunkers and the removal of an 800-foot gravel access road**. This project required the installation of erosion control countermeasures to protect adjacent wetlands prior to the excavation. TANTARA performed excavation, staging, sampling, analysis, transportation and disposal of lead contaminated soils. We handled the excavation and disposal of the gravel access road and associated geotextile stabilization fabric and bunker material. Final restoration included removal of chain link fence, backfilling, seeding and installation of an erosion control jute mesh over the entire area.

In 2010, TANTARA completed remediation for MMR, on behalf of a prime contractor, involving **remediation of contaminated soils on three firing ranges**. This remediation project for the USACE was completed in December 2010.