

WESTON SOLUTIONS, INC.

PETROLEUM, OIL, AND LUBRICANTS (POL) PROGRAM MANAGEMENT

UST Compliance Studies
Release Abatement Measures
UST Removal and Restoration



WESTON
SOLUTIONS®

an employee-owned company

Petroleum, Oil, and Lubricants

For our military clients, management of their petroleum, oil, and lubricant (POL) program is one of the most difficult technical and environmental challenges. The nature of the military's mission requires access to vast quantities of fuel to power the nation's defense systems. The complexity of the fuel storage and distribution systems, coupled with problems associated with past operation practices and new facility compliance requirements, has resulted in the need for infrastructure and remediation services at many military installations. In addition to remediation, most facilities require assistance in the maintenance and upgrade of existing fueling systems and management of their vast fuel inventories.

Weston Solutions, Inc., formerly Roy F. Weston, Inc. (WESTON®), an international, full-service environmental contractor, has the expertise and resources to assist the military in managing their POL programs. As shown in the following representative project descriptions, WESTON can provide a central focus for all aspects of a client's POL program. WESTON will use a centralized program team composed of experts in various aspects of POL management (e.g., hydrant system design, remediation, aboveground and underground storage tank (UST) systems compliance and upgrade) to give clients a single point of contact to accomplish the required tasks. This "one-stop shopping" allows for the most efficient use of resources, eliminating duplication of project management costs associated with the use of several contractors.

WESTON stands ready to assist the military in maintaining mission readiness by providing a professional, cost-effective resource for POL management. WESTON can provide this service at locations worldwide with experience in all 50 states and 45 countries on 6 continents. Our staff of 2,000 provides environmental remediation services from 60 offices worldwide. WESTON provides the highest level of service to ensure successful completion of all assignments.

Hydrant Fuel System Upgrade and Evaluation of Interim Remedial Action Alternatives, Dover AFB, DE

WESTON designed a Type III hydrant fueling system to replace a leaking fuel distribution system at Dover AFB, Dover, DE. Phase I of this fast-track design upgrade included approximately 30,000 feet of piping, a state-of-the-art soil gas leak detection system, loading/unloading facilities, modifications to two existing 10,000-barrel storage tanks, and a secondary containment system for the storage tanks. The storage tanks were also converted from a bulk storage mode to an operating mode.

Phase II included the design of a new pump house, approximately 10,000 feet of additional piping with a soil gas leak detection system, loading/unloading facilities, and two new 10,000-barrel operating storage tanks on pile foundations with a secondary containment system. WESTON also managed and coordinated the subcontractors assigned to this project, including site surveyors, drillers, a corrosion specialist, and an underground utility location contractor.



AST/UST Compliance Studies, Pease AFB, NH

WESTON was contracted to complete Pease's UST compliance requirements, perform Initial Site Characterizations and Site Investigations, and develop Remedial Action Plans.

The Pease AST/UST Program consisted of:

- **Phase I - Tank Removal and Closure** - Removed 22 tanks, ranging in size from 500- to 30,000-gallon capacity; 2 oil/water separators, 2 small buildings, and gas station pumps and equipment.
- **Phase II - Initial Site Characterization (ISC)** - Performed at 9 sites where tanks had been removed, but clean closure had not been adequately documented.
- **Phase III - Site Investigation (SI) and Remedial Action Plan (RAP)** - Further investigated those sites where it was determined that additional information was required for proper closure.

WESTON managed all three phases of the closure, investigation, and remediation planning for 26 sites at Pease AFB. To expedite closure and minimize costs at each site, program management emphasized a fast-track, iterative approach to the site investigations. The fast-track investigative strategy relied on the ability of the technical team to make real-time field decisions, while at the same time keeping all regulatory personnel informed and involved in the decision-making process. Several innovative investigative techniques were used to ensure that these objectives were met. These investigative strategies included the use of field screening technologies, on-site laboratory analysis, innovative disposal solutions, and technical briefings.

Abandoned Gasoline Pipeline, Fort Pickett, VA

WESTON investigated approximately 5 miles of abandoned gasoline pipeline at Fort Pickett, VA. The scope of the investigation involved assessing the impact on soils. Significant leakage from an abandoned pipeline had impacted soil with petroleum. The distribution system piping was constructed of carbon steel and consisted of approximately 26,000 linear feet. WESTON reviewed available records, maps, drawings, and plans to document the historical background of the distribution system and define the known configuration of the pipeline system to support the sampling activities.

Field efforts included conducting a geophysical survey to define the location of the pipeline using a combination of ground-penetrating radar and a Geonics EM-31 electromagnetic terrain conductivity meter and conducting Geoprobe® soil sampling at 250 locations along the pipeline to characterize potential hydrocarbon impact. Sampling included collection of soil samples at two depths from each boring, field screening for hydrocarbon vapors using a photoionization detector, and laboratory analysis of selected soil samples. The Site Investigation Report presented a summary of the background records search, description of gas pipeline system, description of field activities, site maps, sampling locations, tabulated laboratory results, and a written analysis of the investigation findings. Results were used to support plans for closure in place and removal of sections.



Release Abatement Measure, Former East Boston Naval Fuel Annex, MA

A Release Abatement Measure (RAM) was implemented in accordance with the Massachusetts Contingency Plan. RAM activities included the excavation and off-site disposal of approximately 3,000 cubic yards of petroleum-contaminated soils. The source of contamination was an underground pipeline that had connected petroleum USTs in the former Naval Fuel Annex. Upon excavation and removal of the pipeline and contaminated soil, an abandoned 20,000-gallon UST was discovered. The UST was emptied, cleaned, and closed in place.

UST Removal and Site Restoration, Tinker AFB, OK

WESTON performed the removal and disposal of six USTs and underlying soil contaminated with benzene, toluene, ethylbenzene, and xylene (BTEX), petroleum hydrocarbons, and petroleum naphtha. The six USTs, which had a total capacity of more than 100,000 gallons, were located at multiple sites at Tinker AFB. The tank interiors were inerted in place, excavated, and loaded onto transport vehicles for off-site disposal. Samples were collected at the bottom of each tank excavation to determine the level of contamination.

Approximately 300 cubic yards of contaminated soil was excavated, consolidated into a single stockpile, and land-farmed to reduce BTEX concentrations prior to disposal at a local industrial waste landfill. Tank excavations were back-filled and the surface restored to prework conditions.



Excerpt from the AFCEE Worldwide Full-Service Remedial Action Statement of Work

“The Contractor shall provide for the removal, disposal, installation, replacement, repair, maintenance, and/or upgrade of hydrant refueling systems. This includes activities associated with connecting pipelines, fuel- and solvent-contaminated soils, residual liquids and sludges, and site restoration. The Contractor shall also be responsible for the collection, testing, analysis, and reporting of contaminants in soils, liquids, and sludges.”

AFCEE WORLDWIDE FULL-SERVICE REMEDIAL ACTION CONTRACT

► For More Information, Contact:

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