



## **BERNIER CONSTRUCTION, INCORPORATED PROJECT SUMMARY**

**Project Title:** Soil Remediation at Willow Grove Naval Air Station Joint Reserve Base (NAS/JRB)

**Location:** Willow Grove, PA

**Scope:** Provide labor, tools, equipment, and supervision to remediate contaminated soils at the Site 5 Fire Fighting Training Area

Berner Construction was contracted by Resource Management Concepts, Inc. (RMC) of Lexington Park, MD to perform the soil remediation work at the former Fire Fighting Training Area (FTA) known as Site 5 at the Willow Grove NAS/JRB. The remediation work was performed in accordance with the Navy-approved Work Plan and Site-Specific Health and Safety Plan. The project involved pumping any standing water from within the remediation area, soil excavation, transport and disposal of contaminated soils, waste manifest management, assisting RMC with confirmation sample collection, and photographic documentation of the remediation work.



The former FTA was located in the south-central portion of the NAS/JRB, approximately midway between Runway 10/28 and State Route 463. The site covered an irregularly shaped area of approximately 1.25 acres and was located immediately south of Taxiway Juliet. The former FTA was used from 1942 to 1975 to conduct large-scale firefighting activities which included disposal and burning of flammable liquid wastes inside a steel burn ring. Drums of these flammable liquid wastes were reportedly stored at the former FTA between training exercises. Soils in the area were contaminated with polynuclear aromatic hydrocarbons (PAHs) and total organic carbon (TOC).

### **Direct Load Out of Trucks for Disposal**

Initial excavation of contaminated soils and confirmation sampling were conducted in December 2005. Confirmation sample results indicated PAH concentrations above the State and Federal residential, unrestricted use clean-up standards in several hot spots that required additional remediation. The additional remediation and confirmation sampling were conducted in August 2006. Confirmation samples indicated that the clean-up standards had been achieved and the area was backfilled with clean soil stockpiled at other locations at the NAS/JRB. 19 truckloads of contaminated soil were removed from the former FTA. All soils were directly loaded into trucks for transport and disposed at Clean Earth of Philadelphia, Inc. thermal treatment facility.



**Initial Excavation of Contaminated Soils**



**Additional Excavation of Soils**