



## BERNER CONSTRUCTION, INCORPORATED PROJECT SUMMARY

**Project Title:** Earle Naval Weapons Station – DPDO Yard Landfill Capping Project

**Location:** Colts Neck, NJ

**Scope:** Constructed a two acre landfill cap over the former landfill; installation of a gas venting system; removal and relocation of an existing draining ditch and wetlands area, and upgrade of a fire hydrant system and water main

Berner Construction, Inc. was contracted to implement the Landfill Capping Project at the NWS Earle Site 13. The landfill contained soil contaminated with PCBs, lead, arsenic, and other heavy metals. The soil of the landfill had contaminated an adjacent drainage ditch and wetlands



**Excavation of Wetland Area Sediments**

area. The project included the removal of approximately 2,600 cubic yards of the contaminated sediments from the drainage ditch and wetlands area. The sediments were stabilized and solidified on site, and then placed within the footprint of the existing landfill. The restoration of the wetlands area included the placement of 2,600 cubic yards of common fill and 800 cubic yards of high organic topsoil. In addition to the sediments, approximately 3,800 cubic yards of imported subgrade material were placed and compacted.

The 1.5 acre liner system consisted of a 40-mil HDPE liner layered between 10-ounce geotextile fabric, 3,800 cubic yards of drainage layer material, 4,000 cubic yards of common fill, and 2,000 cubic yards of topsoil. The landfill cap construction also included the installation of a gas venting system consisting of a 12-inch granular gas venting layer and approximately 500 linear feet of subsurface HDPE piping and vents. Unexploded ordnances (UXOs) were uncovered during the regrading of the landfill cap and wetlands area. The Navy mobilized subcontract personnel to perform UXO sweeps of the landfill and wetlands area and to render safe any UXOs uncovered. Berner personnel assisted the UXO team during the alternate sweeping and excavating efforts.

As part of the erosion and sedimentation control measures, Berner Construction installed 850 linear feet of rip-rap-lined stormwater swales and constructed a rip-rap stormwater protection apron around the base of the landfill.

The project also included the relocation of an existing 8-inch water main, fire hydrant, and associated valves and fittings.