



BERNER CONSTRUCTION, INCORPORATED PROJECT SUMMARY

Project Title: Remedial Action Improvements at the Butz Landfill Superfund Site

Location: Pocono and Jackson Townships, Monroe County, PA

Scope: Provide labor, tools, equipment, and supervision to perform fiberglass air stack modifications

Berner Construction was contracted by TetraTech NUS to perform fiberglass air stack modifications to the existing groundwater pump and treat system at the Butz Landfill Superfund Site. The 13-acre site is located south of Camelback Mountain, along North Road in Pocono and Jackson Townships, Monroe County, PA. The Butz Landfill operated without a permit from approximately 1965 to 1973. The disposed waste consisted of municipal waste, sewage sludge/liquids, and possibly some industrial wastes.



Contaminated groundwater in local domestic drinking water wells was discovered in 1984 and the site was placed on the National Priorities List (NPL) in 1989. Site groundwater is contaminated with various volatile organic compounds (VOCs), mainly trichloroethylene (TCE). The selected remedial action for the Superfund site was construction of a municipal water supply and a groundwater pump and treat system, which were completed in 1993 and 2001, respectively.

Contaminated groundwater is pumped from three extraction wells and treated via an air stripper and granular activated carbon (GAC) filters. The treated water is discharged to created wetlands on-site. During the first six years of operation, EPA has modified O & M procedures and used computer modeling to optimize the remedial action. Computer modeling of the air stripper indicated that increasing the stack height would improve air dispersion from the groundwater treatment system and may ultimately allow for the GAC filters to be eliminated.

New 10-meter Fiberglass Air Stack

The air stack modifications project involved removal of the existing 4-meter stack, installation of a new concrete stack foundation, a new 10-meter 12-inch diameter fiberglass stack, new interior 12-inch fiberglass ductwork, new stainless steel guy wire supports, lightning protection, a new masonry enclosure around the stack, and repair of the roof following removal of the old stack. The majority of the work was completed while the treatment system was still operating. The groundwater pump and treat system was shutdown for only two hours during the installation of the new stack.



Interior Fiberglass Ductwork