



Project Application Profile

Project: Millington Asbestos Dump, OU-1 Superfund Site
Contractor: IT Corporation
Engineer: CDM Federal
Product Used: Con Cover 180 and Super Seal
Date: September 1999 through February 2001

Millington Asbestos Landfill Cover and Retaining Wall Project

The Army was responsible to conduct turnkey design and construction of a 5-acre landfill cover for the US Army Corps of Engineers and USEPA Region 2. To protect the cover and stabilize the slope, IT Corporation was tasked with erecting a 400 linear foot retaining wall. Two acres of the landfill were located within the river flood-plain, with the western slope bound by the Passaic River stream bank. During periods of heavy precipitation, rising flood waters de-stabilized the 2:1 embankment, resulting in erosion of asbestos materials into the Passaic River and downstream residential areas.



The alignment of the wall required excavation, transfer and stockpiling of 200,000 cubic yards of friable asbestos wastes until river bank stabilization was completed. Because of the proximity of this site to public receptors, regulators required extraordinary dust controls and air sampling to prevent airborne particulate migration off site. To meet the stringent stockpile and dust management

requirements, IT turned to New Waste Concepts (NWC) for an innovative solution capable of providing a cost-efficient and effective product to meet the remediation objectives. At Millington, Con Cover was used in routine stockpile and slope stabilization, was influential as a contingent emergency protective measure, and was used to augment site restoration activities.

During excavation, Con Cover 180 was an immediate and reliable stabilization solution for exposed slope surfaces and stockpiles. The low-ground pressure, off-road CAPS 900 machine allowed crews to navigate difficult terrain and apply the Con Cover 180 to all exposed slopes along the stream bank at the end of each work shift. Additionally,

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stockpiles positioned adjacent to commercial properties were covered with Con Cover 180 and an acrylic polymer sealant. The sealant prolonged the effective life of the Con Cover (3-5 months), precluding multiple applications of the product, while successfully preventing a single action level dust sample result.

In September of 2000, Hurricane Floyd ravaged the Eastern United States. As the storm moved up the coast, the US Army Corps of Engineers requested that IT take drastic measures to prevent destruction of the newly graded landfill cover. Anticipating substantial flood conditions and torrential rainfall, IT again turned to Con Cover 180 and a Super Seal product to challenge the impending floods. In conjunction with innovative surface drainage controls, IT applied the Con Cover and Super Seal on the 3:1 slopes from the peak of the 33-foot mound to the river bank sediments. Over 12-inches of rain fell, submerging landfill slopes below 22-foot flood waters for three days. The USACE Program Manager commented, "this product is amazing...it is truly unbelievable that there were no slope failures or observed releases of asbestos". This product prevented catastrophic release into the Passaic River, and precluded importation or rock and clay soils to fortify the vulnerable slopes.

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