

# AquaBlok® Installation Profile



**Site Location:** *US EPA Region 5*

Greenville Municipal Landfill, Greenville, Ohio **Project Status:** Completed January 2008



Overview of Completed Slope Repair/Stabilization with AquaBlok Landfill Cap Seal / Repair

**Setting / Purpose:** Freshwater Creek – Control of Cap/Bank Erosion on Closed Landfill

**Contaminant(s) of Concern:** Creek bed erosion penetrated historic landfill cap and was causing a release of leachate from landfill into creek. AquaBlok, a bentonite coated aggregate sealant, was selected to provide the low permeability (in the range of  $10^{-9}$  cm/sec) interface with the existing landfill cap.



Overview of AquaBlok in Geocell on Slope



Close-up View of AquaBlok in Geocell

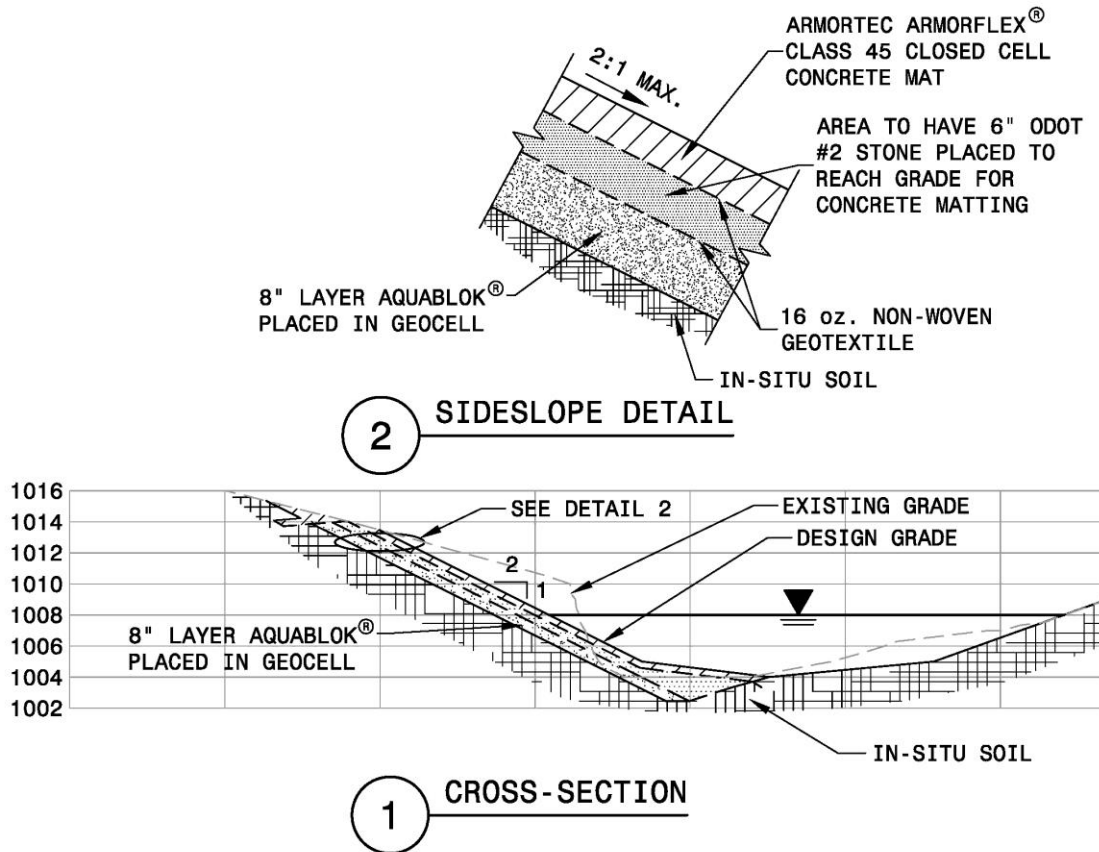
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Greenville Municipal Landfill, Greenville, Ohio (con't).

**Slope Protection Design / Site Area:** Ohio EPA approved design that incorporated AquaBlok as primary low permeability seal for re-establishment of the certified landfill cap.

A multi-layer design was used to first re-establish the landfill cap, then to provide bank/slope protection to high flow conditions in the creek bed. The first layer utilized a 6" thick Geocell to maintain the AquaBlok capping/sealant material on the slope of the creek. This was then covered in a geofabric and a layer of stone. An articulated concrete mat was placed over the entire area to provide the final level of protection from long-term erosion to the bank. Site area was comprised of 3,000 square feet of embankment area.



**Method of AquaBlok Placement:** Land-based excavator.