

CONCRETECLOTH™

Geosynthetic Cementitious Composite Mat (GCCM)



STRUCTURAL STRENGTHENING

CASE STUDY:

Hunter Army Airfield Slope/Stream Bank Stabilization

PROJECT OVERVIEW

Severe erosion concerns from tidally influenced coastal waters created a need for a permanent and relatively maintenance-free erosion stabilization measure. Due to the location, within the confines of a restricted access army base, a tough, durable solution was sought to adequately perform in extreme conditions.

The 3,000 ft² section along a steep embankment, was quickly eroding after the removal of post-WWII era bridge abutments. A solution was sought for overall economy, durability, a quick installation and to reduce maintenance.

SOLUTION

Concrete Cloth GCCM was chosen for overall cost effectiveness, speed of installation and cost of materials, which would bring immediate value to Hunter Army Airfield Public Works.

When compared with rip rap, which is usually not recommended for slopes over 2:1, the overall increased slope stability and reduced maintenance over time were additional considerations that were favorable for the selection of Concrete Cloth material.

The site was graded and prepared as a smooth working surface, and the CC8 material was placed longitudinal on to the slope. The entire slope was covered and hydrated, after being toed in at the top and covered with large ballast at the bottom.

The work was completed in one working day using Concrete Cloth GCCM, which saved time and, reduced worker hazard exposure.

The material was installed with a crew of three men and a trackhoe, using only simple hand tools to cut and seam the CC8. The two bulk rolls were placed by the contractor, who had no prior experience with Concrete Cloth GCCM. No specialty labor, forms or equipment were required.

RESULTS

Concrete Cloth GCCM was successfully installed, and it efficiently and effectively stabilized the steep slope.

PROJECT DETAILS

Location: Hunter Army Airfield, Savannah, GA

Application: Slope/Stream Bank Stabilization

Client: Department of Public Works, Ft. Stewart

Installation: 2013

Concrete Cloth GCCM was selected to provide erosion control on a slope facing extreme conditions. Compared to rip rap, Concrete Cloth GCCM provided quick installation and reduced maintenance, repair and protection.



Concrete Cloth GCCM installed and hydrated on slope.



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The installation was completed by three men and a trackhoe to lift the bulk roll.



Concrete Cloth GCCM hydrated after installation.



Concrete Cloth GCCM installed on the slope.



Vegetation on top of the Concrete Cloth GCCM after installation.



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