

## CASE STUDY

# HIXSON YOUTH ATHLETIC FEILDS

Steep Slope Stabilization  
Chattanooga, TN

## PROJECT SUMMARY

The City of Chattanooga needed a solution for a slope failure that occurred alongside a track located at a community center. Saturation of the slope was caused due to flooding from storm sewer pipes above the slope coupled with flooding and ponding of a surface water drainage channel at the toe of slope. The slope needed to be stabilized to prevent further washout, which would impair the track.

The City considered using a modular block wall or rock riprap to stabilize the slope, but both options are costly and do not provide a natural look. Additionally, the track is widely used by young children, and the City wanted an option that would reduce risk with respect to pedestrian park use.

The City chose to use a combination SCOURLOK® and ARMORMAX® to address the slope failure. Previously the City had used this same combination to repair a slope at a local elementary school and its performance has exceeded expectations.

The SCOURLOK was used to protect the toe of slope, while ARMORMAX with Type B2 anchors reinforced and stabilized the top of the slope. Together, this combination will provide up to 75 years of vegetated slope stabilization and erosion protection.



## PROBLEM

A slope failure at a community center needed to be repaired to prevent further washout and safety issues



## SOLUTION

A combination of SCOURLOK and ARMORMAX were used to protect the toe and stabilize the slope

**ARMORMAX**<sup>®</sup>  
Engineered Earth Armoring System

**SCOURLOK**<sup>®</sup>  
Engineered Bank Stabilization

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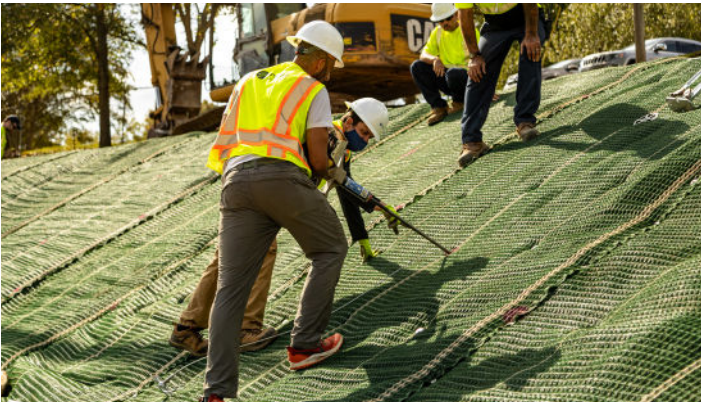
## FEATURES & BENEFITS

- Provides permanent erosion protection for up to 75 years
- Withstands both hydraulic and non-hydraulic stresses
- Ease of installation reduces time and labor costs
- Reinforces vegetation and promotes a living shoreline
- Outlasts other slope reinforcement methods yielding significant cost savings
- Promotes infiltration of surface water
- Available in green or tan to fit specific project needs
- Lightweight and easily transported into areas with access challenges



### VEGETATION

SCOURLOK features vegetating pockets that can be filled with soil to sustain plant growth



### SLOPE STABILITY

ARMORMAX provides an increased factor of safety against soil movement along the face of the slope



### PERFORMANCE

The installation successfully withstood a heavy rain event two weeks after installation



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PGS-1662E-001 (11/2020)