CASE STUDY

HORNELL WATER TANK

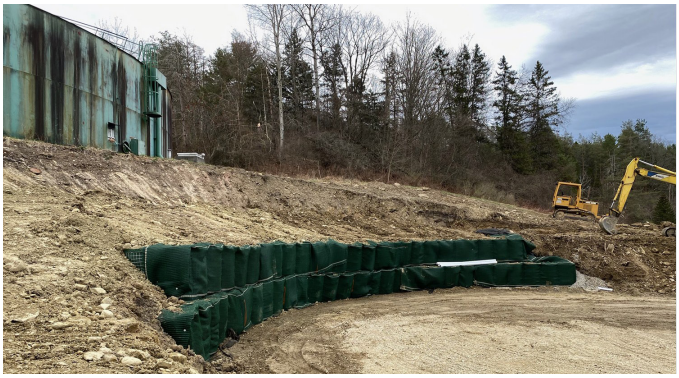
Retention Wall
Hornell, NY

PROJECT SUMMARY

The City of Hornell Water Department needed to replace an aging water tank, but couldn't remove the existing tank outright because it would impede the water supply to the town. Instead, the City built a new concrete tank in close proximity to the existing tank. The new tank was built at a lower elevation from the existing tank, so a retaining wall was needed to stabilize the slope and protect the new water supply.

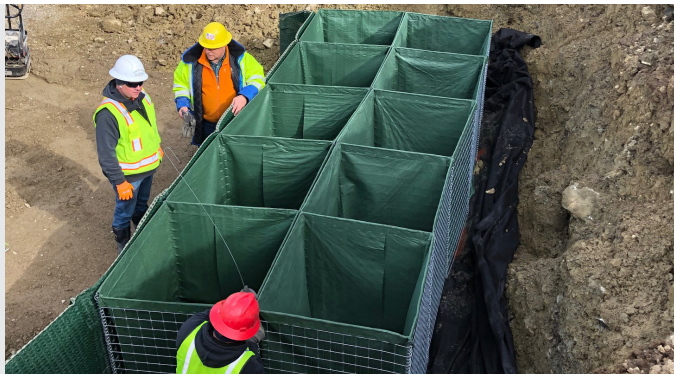
Initially a metal sheet pile wall was considered, but the team decided to look for alternative options due its high cost and logistical challenges. The project team also considered rock-filled gabion baskets, but ultimately chose SCOURLOK® because it installs faster than other solutions. SCOURLOK's patented design features rigid and interlocking cells armored with the superior erosion control protection from PYRAMAT® High Performance Turf Reinforcement Mat (HPTRM) and the separation capabilities of GEOTEX® nonwoven geotextile.

SCOURLOK units were shipped to the site preassembled, where the project crew was able to quickly install two tiers to create a 106' x 8' wall.



PROBLEM

A retaining wall was needed to provide grade separation between two large water tanks



SOLUTION

Two tiers of SCOURLOK were used to build a 106' x 8' retaining wall

SCOURLOK™
Engineered Bank Stabilization

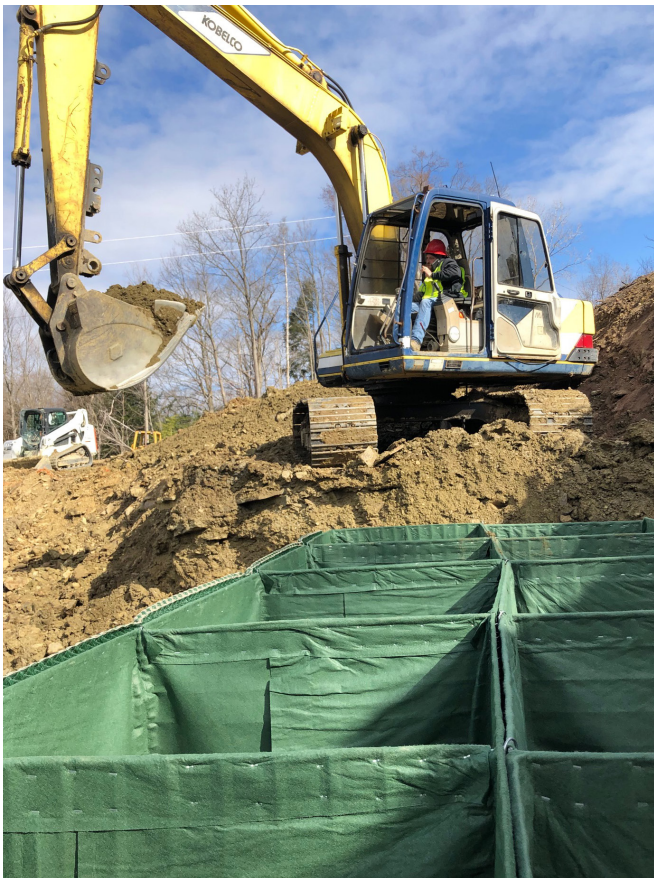
PropexGlobal.com/Scourlok

FEATURES & BENEFITS

- Resists extreme hydraulic stresses, protecting vegetated and un-vegetated applications
- Units can easily be connected and contoured to accommodate projects of any size
- Units can be filled with in-situ soils, eliminating the cost of importing fill material to a jobsite
- Compact design makes shipping costs more effective than traditional hard armoring solutions
- Units ship pre-assembled for fast and easy installation, reducing overall installation costs
- Units are deployed faster than conventional methods and can be filled using machinery

An additional benefit to SCOURLOK is that it requires minimal equipment for installation, making it ideal for locations with limited space. Once installed, each unit was filled with onsite material, reducing the need to remove excess material or to import crushed stone/rock as fill.

In only took two days to complete the project, whereas it is estimated that gabions would have taken three times as long to install. The reduced installation time significantly cut labor costs.



INSTALLATION

It only took two days to complete the SCOURLOK installation, compared to an estimated six days to install gabion baskets

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Visit our website for more information, Product Samples, or other inquiries, or call Customer Service at 800 624 1273

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