

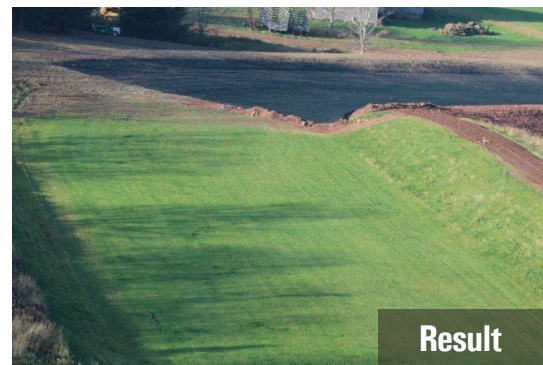
BATAVIA KILL DAM REPAIR WINDHAM, NY



Problem



Solution



Result

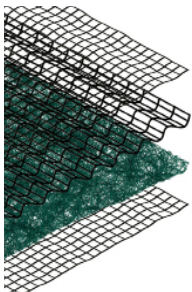
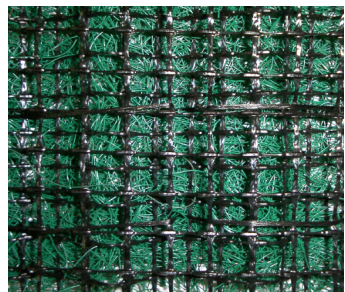
Application: Levee/Dam Stabilization
Product: VMax P550 TRM

Site Issues: Hurricane flooding • Compacted soil • Emergency spillway • Vegetated solution required • Severe flooding

Problem: Extreme water flows produced by Hurricane Irene caused severe erosion to the earthen emergency spillways at the 40-year old Maplecrest, Nauvoo and Mitchell Hollow Dams which serve the Batavia Kill (River) Watershed District. VMax® P550® Turf Reinforcement Mat (TRM), a permanent and economical erosion control solution, was chosen to permanently protect and revegetate the site. Timing of the repairs were critical since vegetation needed to be established in advance of the rainy season and snow. Also, the spillways were surrounded by farmland so the District preferred a more natural, reinforced, vegetated solution.

Solution: The VMax® P550® TRM combines a UV-stabilized three-dimensional matting with a 100% polypropylene fiber matrix to offer one of the industry's most rigorous erosion protection systems while offering vegetation establishment and reinforcement properties. The crews completed the four installations of VMax P550 TRM over a five-week period (interrupted by periods of cold weather). Altogether, 35,000 sq yds of product, covering nearly seven acres of graded surface with a 3 in. layer of native topsoil, were placed. While the P550 TRM was shown to be easy to handle and unroll, while the compacted clay soil required effort to install the staples mainly due to frozen, hard, cold soils.

Result: Because the P550 TRM was installed with a blend of three difference fescue grasses, the large site was able to quickly establish vegetation in many areas before winter. The high performance, easy ability to vegetate, and proven record of the VMax P550 TRM resulted in a dam repair that will stand the test of time.



PRODUCT HIGHLIGHTS

- The VMax P550 quickly establish vegetation through the mat, providing both an anchor for vegetation and the ability to filter fines during inclement weather.
- The unique design creates a shear plane that deflects flowing water away from the soil surface will still allowing ground cover and moisture retention aspects from natural fiber mulch covers.