

SPRING LAKE DAM COLUMBIA, SC



Application: Dam repair & stabilization
Product: ECP-3 TRM

Site Issues: Shoreline stabilization • Repair existing project • Long-term stabilization

Problem: Spring Lake Dam, located in Columbia, South Carolina, was originally protected with MKB's ECP-3® Turf Reinforcement Mat nearly a decade ago. The ECP-3 TRM was installed as part of an effort to provide long-term surface erosion protection along the dam's earthen embankment while supporting vegetation establishment. The system has held up remarkably well over the years, even withstanding several major rainfall events that have occurred in the region since installation.

Solution: While the ECP-3 TRM continued to perform successfully in protecting the dam's structure, an unexpected incident in late 2023 required maintenance intervention. A teenager drove a vehicle onto the embankment and performed "donuts," causing surface-level damage to the TRM in several areas. Though the structural integrity of the dam remained intact, immediate repair was necessary to prevent erosion in the damaged zones.

MKB quickly stepped in to assist the local contractor with repair efforts. A replacement roll of ECP-3 was supplied and installed with ease. This swift response and simple repair process highlights one of the great advantages of MKB's TRM systems: not only are they built for long-lasting performance and environmental protection, but they're also incredibly straightforward to repair if unexpected damage occurs.

Result: Since its original installation, the ECP-3 system has continued to provide reliable, long-term slope protection. The 2024 repair successfully restored damaged sections, with re-vegetation already underway. The ease of reinstallation allowed for minimal disruption to the site and fast recovery of the protective system.



PRODUCT HIGHLIGHTS

- A robust, economical TRM ideal for long-term erosion control on slopes, channels, and shorelines.
- Durable & resilient after 10 years of exposure, including multiple storm events. Quick and simple to repair using standard installation practices.
- Designed for effective soil retention while promoting nativeplant growth for added stabilization.