Overtopping of dams can lead to failure, potentially causing significant downstream damage including loss of life and property. The HydroTurf® Advanced Revetment System is specifically designed to protect earthen embankment dams from overtopping. Many embankment dams have a high probability of failure due to inadequate height and insufficient spillway capacity. HydroTurf provides fail-proof erosion protection for the high-velocity applications of dam spillways and overtopping. It has been shown to be able to withstand 5.5 feet of overtopping resulting in a velocity of 40 ft/s with no instability, erosion or damage. It also has exceptional performance in severe hydraulic jump and wave overtopping conditions.

HydroTurf has a number of benefits over traditional revetment systems:

- Excellent hydraulic performance
- 50+ years of functional longevity
- Less costly construction
- Rapid, low-impact and scalable construction
- Minimal long-term maintenance
- Natural aesthetics
- Prevents burrowing from animals
HydroTurf® has been comprehensively tested at Colorado State University (CSU). CSU’s laboratory has the largest flumes for hydraulic testing in the world. HydroTurf did not reach failure at a maximum steady state overtop velocity of 40 ft/s and for 13 hours in the wave overtop simulator being subjected to a 500-year hurricane event for the New Orleans region.

HYDROTURF® is a U.S. registered trademark which designates a product from Watershed Geosynthetics, LLC. This product is the subject of issued U.S. and foreign patents and/or pending U.S. and foreign patent applications.