

Application Story

PROJECT	FLORIDA PROJECTS
Product	Geotube® Marine Structures Technology
Application	Lake Embankment Systems (LES™)

Location Florida

The Challenge:

Development of an unconventional embankment erosion control counter-measure system.

The Solution:

Unlike traditional erosion control methods, such as rock riprap, the Geotube® Lake Embankment System (LES™) can be buried and revegetated to be made virtually invisible. The system utilizes a small tube constructed of nonwoven geotextile, which is filled with onsite sand or soil. The soil is contained and compressed inside the tube where it remains to serve as a structural mass.

The Geotube® LES™ product works well in situations involving severe erosion. Multiple LES™ containers can be stacked in order to maintain the existing slope [photo 1]. Following the installation, the Geotube® units will be ready for sod placement.

Key Highlights:

The LES™ erosion control system . . .

- is cost-effective
- is aesthetically-pleasing
- readily accepts turf grasses [photo 2]
- virtually disappears when covered with sod [photo 3]
- allows vegetation to grow down to water's edge [photo 4]
- flexible and maintains natural shoreline

contours

- protects the edge of inland lakes, canals, and waterways
- is used in parks, neighborhoods, golf courses, etc.
- can be stacked to create taller structures as needed
- reclaims previously lost real estate



Contact Information:

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