

Objectives of the SCE&G Lake Murray Demonstration

- ◆ Improve water quality
- ◆ Reduce erosion and sedimentation
- ◆ Improve wildlife habitat
- ◆ Provide economic alternatives
- ◆ Enhance aesthetics
- ◆ Establish trees and shrubs as buffers



Lake Murray Management Office Policies



- All shoreline protection activities must be permitted through the Lake Murray Management Office. Call (803) 217-9221 for more information.
- Bioengineering is an acceptable alternative for shoreline protection and enhancement but may not be suitable for every site.
- Selection of plant materials will vary depending on soils, hydrology, and slope.

SCE&G Lake Murray Conservation Partners

SC Soil and Water Conservation Districts (SWCD's)
USDA-Natural Resources Conservation Service (NRCS)
SC Resource Conservation and Development Councils (RC&D's)
SC Department of Natural Resources (SCDNR)
SC Department of Health and Environmental Control (SCDHEC)
Lake Murray homeowners associations
The Greater Columbia Home Builders Association
US Army Corps of Engineers
US Fish and Wildlife Service
Clemson University (Shoreline Restoration Research Project)

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Protect Your Lake Property the Natural Way...

with conservation!

Eroding shoreline is costing you...

But it can be prevented!

BEFORE



AFTER



Using a combination of bioengineering and traditional rip-rap, this shoreline was protected from harmful erosion.

Conservation Choices for Shoreline Protection

Bioengineering is called “the natural solution” because it integrates native plants into the shoreline to reduce erosion and enhance aesthetics.

- ◆ A naturally vegetated shoreline improves a lake's health, acting as lungs and kidneys, filtering out harmful pollutants, protecting and beautifying valuable property, and enhancing fish and wildlife habitat.
- ◆ There are over 25 plant species available for shoreline stabilization.



Open-cell block design blends man-made materials and natural vegetation to protect shorelines and reduce erosion.

- ◆ Provides ideal environment for vegetation and a permeable surface for reducing energy from wave action.
- ◆ Features an interlocking/articulation design.
- ◆ Cabled together for increased stability and easier installation.
- ◆ Single open cell block can be hand placed on steep slopes or irregular-shaped surfaces.
- ◆ Can be machine placed with a tractor.
- ◆ Comparable in cost to traditional riprap.
- ◆ Can be mowed and maintained to accommodate walking.



South Carolina Electric and Gas (SCE&G), a SCANA company, sponsored a demonstration project at Lake Murray* to illustrate conservation alternatives for shoreline stabilization. The project was also made possible by a number of partner agencies and local sponsors.

Lake Murray Demo

Traditional riprap or open cell block and native plants and trees combine to create a barrier against harmful shoreline erosion.



Before restoration



After restoration

above right: Erosion exposes tree roots. left: Hand-placed open cell block and vegetation provide a soft buffer on a smooth landscape with minimal maintenance. Open-cell block donated by Armortec.



**The demonstration project is located at Murray Shores SCE&G Boat Ramp #3, 15 miles west of Lexington, off of Hwy. 378 toward Saluda (near the County Line Store). For more info., contact Tommy Boozer (SCE&G) at (803) 217-9221, or NRCS at (803) 576-2084.*