

CARNEY STREAM BANK RESTORATION PROJECT



A portion of the severely eroded bank along Slippery Rock Creek. Over 50' of property had been lost eroding over 25,000 cubic feet of soil into the stream.

The stream bank looking in the same direction as the before photo approximately 2 months after construction was completed. A tour was given to the Slippery Rock Campground Association located across the stream.



Location: Worth Township, Butler County, PA
(Approximately 500' downstream of West Park Road (SR4007)).

Constructed: 2012

Project Description: This project involved the restoration of over 200' of severely eroding stream bank along Slippery Rock Creek. According to the property owners, between 50' and 75' of property had been lost since the installation of a new bridge over West Park Road. A combination of traditional and bioengineering techniques were used to reinforce the bank including grading, stone toe protection, livestakes, brush layering, rootwad revetments, and rolled erosion control blankets. BioMost, Inc. provided design, permitting, and construction services for this project. To date, there have been no signs of erosion after two high flow events, including Superstorm Sandy.

Environmental Benefit:

- Reduce turbidity and sedimentation of Slippery Rock Creek.
- Improve quality of aquatic habitat for fish and macroinvertebrates within the stream.
- Use of native vegetation to help stabilize the bank and provide riparian habitat.

Reference:

Darrell Carney, Property Owner

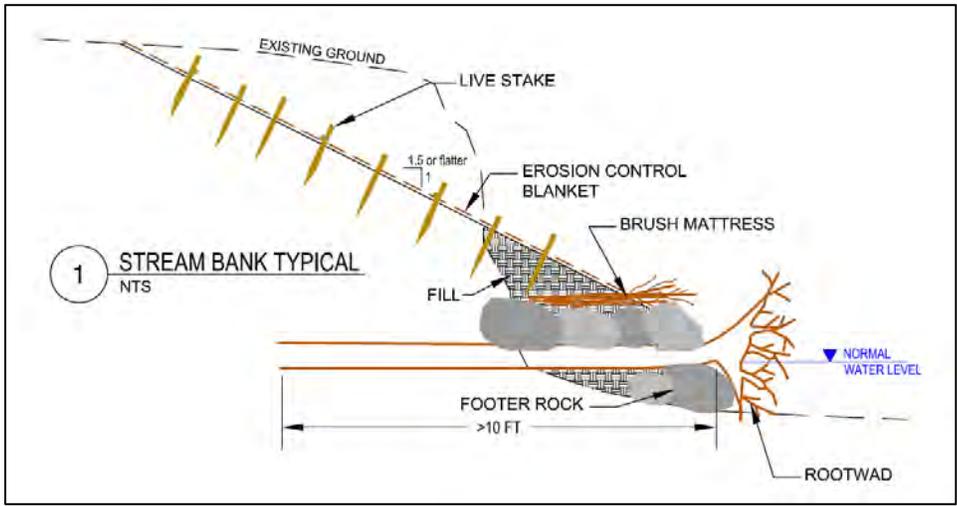
Winter Address: 18 Grove Trail, Wildwood, FL 34785; PH (352) 748-5704

Summer Address: 116 Robinson Lane, Slippery Rock, PA 16057; PH (724) 406-0606

For more information contact:

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The typical cross-sectional drawing submitted to the Butler County Conservation District with the GP-3 permit application. A combination of traditional and bioengineering techniques were used to stabilize the bank.

Another photo of the erosion prior to construction. Numerous trees were lost along the stream bank including the large tree seen in the center left of the photo. The red line indicates the approximate original stream bank location.



A Bobcat 337 Excavator (shown above left) and Bobcat T300 Track Loader were used to construct the project. A double net coconut coir erosion control blanket was used to provide immediate stabilization of the banks.