

## Charleston Creek Streambank Stabilization Project

Grant Number: C990002556

Tioga County Conservation District

### PROJECT DESCRIPTION

Charleston Creek is a watershed of concern for local residents due to it flowing into Hamilton Lake, which is a secondary water source for residents of Wellsboro. Stream Degradation due to past agricultural practices was the main concern being addressed in the Charleston Creek Streambank Stabilization Project. The projects that were implemented were designed to reduce non-point source pollution by armoring streambanks and directing stream flow to the center of the channel. TCCD and Trout Unlimited's Coldwater Habitat Program (TU) utilized \$85,315.00 of growing greener funds to stabilize 3,000ft of streambank, plant 0.6 acres of riparian forest and reduce 120,997lbs of sediment from entering the stream annually.

### PROJECT GOALS

TCCD goals for this project were to address various areas of concern within the Charleston Creek watershed. Streambanks were rehabilitated by using PA Fish and Boat in-stream habitat structures to armor streambanks, redirect flows to the center of the channel, and provide overhead cover for fish. By stabilizing these streambanks sediment load in the stream will reduce, but it also will protect landowners farm fields and land from washing away. By stabilizing the stream bank, TCCD was able to reduce the amount of excess sediment entering the stocked trout stream annually.

The original goal for this project was 2,000ft of streambank stabilization and 0.6 acres of new riparian forest planted. With the opportunity to do more if funds and projects locations lined up. Contractors bid very low on the projects and TCCD was able to implement an extra 1000ft of streambank stabilization. TCCD's relationship with the various landowners in the watershed allowed them to quickly find new locations that had an eroding streambank to address.

### PROJECT RESULTS

By implementing 3,000ft of streambank stabilization and 0.6 acres of riparian forest, TCCD was able to significantly reduce the amount of sediment entering the Charleston Creek Watershed. The implementation of BMP's reduced 120,997lbs of sediment annually based on estimations made by TU.

### PICTURES

See attached sheet

### PROJECT COSTS

\$85,315.00 Growing Greener Grant

### PARTNERS

Tioga County Conservation District and Trout Unlimited Cold Water Habitat Program

### CONTACT INFO

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