

COCALICO CREEK STREAMBANK STABILIZATION

2017 Growing Greener Grant

Cocalico Creek Watershed Association

Project Description – Stabilized 500 linear feet of the South bank immediately upstream of Swamp Bridge Road.

Project Goals - Eliminate sediment sloughing-off the South bank.

Project Results – Stabilized 500 linear feet of the South bank from actively eroding on the Cocalico Creek immediately upstream of Swamp Bridge Road. A 5 foot wide low floodplain bench with a 3:1 slope to tie into the existing floodplain was excavated. Native grasses, trees and shrubs were planted to enhance the riparian buffer as shown below. This project is anticipated to reduce the sediment load in the Cocalico by 22,440 lbs./yr. (based on the DEP default of 44.88 lbs./ft.).



Before - undercut and sloughing of bank.

After - graded 3:1 bank and 5 foot bench eliminates erosion.

Project Cost - Growing Greener \$92,780. + Match \$17,000.

Lessons Learned - Having the skilled staff from LandStudies, Inc. experienced in this type of restoration along with favorable weather created the formula for success. The bank grading makes a difference ! The Homeowner is actively watering new plantings and eliminating evasive species regularly.

Partners – West Cocalico Township, LandStudies, Inc., Borough of Ephrata

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