

FOSTER BRANCH WATERSHED ASSESSMENT, SEDIMENT ABATEMENT STUDY & SMALL WATERSHED ACTION PLAN



DESCRIPTION

PHOTOS

● Joppa, Harford County, MD

Foster Branch is a tributary to the Gunpowder River in Harford County, Maryland. The tidal portion of the waterway has been dredged four times in the past 30 years with over 35,000 cubic yards of sediment being removed. Aquatic habitat, as well as, recreational boating access continues to be lost. After dredging in 2010, Harford County Department of Public Works hired BayLand to conduct a sediment abatement study which included identifying and evaluating sediment sources, identifying opportunities to implement retrofits, developing design concepts and cost estimates and preparing a Small Watershed Action Plan (SWAP) for the 1,400-acre watershed. The purpose of the study was to prepare a plan to reduce sedimentation to Foster Branch, to minimize the amount of dredging and tidal water impacts, and to serve as a SWAP to obtain Environmental Protection Agency (EPA) Section 319 restoration grants.

Restoration Highlights:

- Performed field reconnaissance for 18.5 miles of streams
- Identified 5 strategic sites for stormwater management best management practices
- Identified and priorities 10 stream reaches for restoration
- Prepared a SWAP in compliance with EPA section 319 "a-i" criteria
- Prepared a 20-year implementation schedule including all proposed projects, surveys, monitoring, project implementation and evaluation of restoration goals

● Client | Harford County Department of Public Works

Engineer | BayLand

Completed | 2010

Construction Cost | \$5,000,000

