

PLUMTREE RUN WATERSHED/BMP ASSESSMENT & SMALL WATERSHED ACTION PLAN



DESCRIPTION

PHOTOS

● Harford County, MD

The Harford County Department of Public Works (DPW) contracted with BayLand to prepare a comprehensive assessment of the stream and stormwater management (SWM) facilities within the Plumtree Run watershed. Restoration of these stream and stormwater sites were evaluated and prioritized to facilitate County selection of sites that would have the most impact to satisfy its National Pollutant Discharge Elimination System municipal separate storm sewer system permit requirements and its Phase II Watershed Implementation Plan.

The Plumtree Run subwatershed encompasses approximately 1,664 acres within the Bush River Watershed. Plumtree Run and its tributaries total approximately 7.4 miles of stream channel that originate in the Town of Bel Air. Due to the high level of development and imperviousness, several first order tributaries now begin at outfalls of storm drains or SWM facilities.

Restoration Highlights:

- Assessed 39 existing SWM facilities and outfalls
- Calculated pollutant loads and BMP pollutant reductions for 17 SWM facilities
- Developed 17 design concepts and cost estimated for high priority SWM BMP sites
- Assessed 7.4 miles of stream channel
- Rated stream degradation and prioritized restoration reaches
- Developed 10 stream restoration projects, cost estimates and pollutant load reductions
- Prepared Small Watershed Action Plan to target EPA funding grant

● Client | Harford County Department of Public Works

Engineer | BayLand

Completed | 2011

Construction Cost | \$6,100,000

