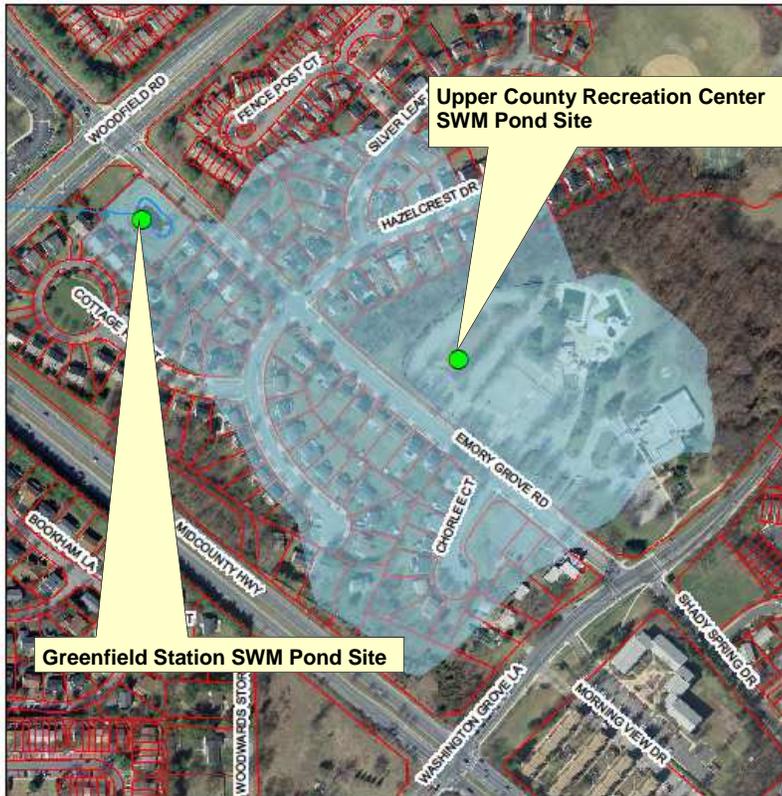


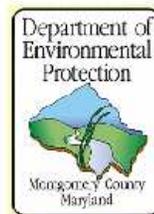
Stormwater Management Facility Retrofit FACT SHEET: Upper County Recreation Center and Greenfield Station Stormwater Management Ponds



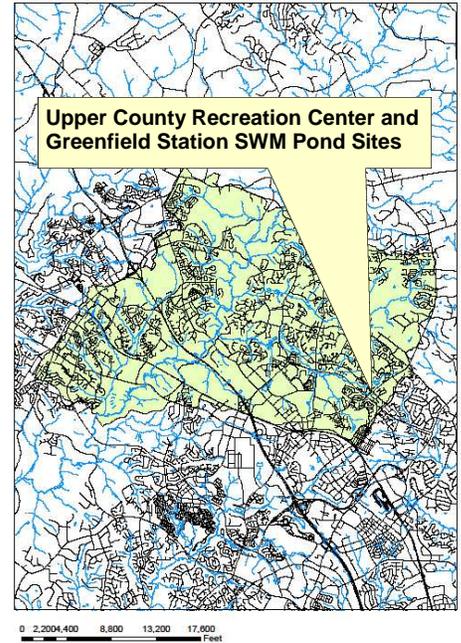
0 100 200 400 600 800 Feet

Legend

- SWM FACILITY ASSET
- STREAM/LAKE
- DRAINAGE AREA
- PROPERTY LINE



MIDDLE GREAT SENECA CREEK WATERSHED



Upper County Recreation Center and Greenfield Station Stormwater Management Facility Facts:

	Upper County Rec Center	Greenfield Station
Drainage Area (acres)	7.94 (0.012 sq.mi.)	23.5 (0.037 sq.mi.)
Subwatershed Imperviousness	3.63 (48%)	8.2 (35%)
Property Ownership	Montgomery County, Maryland (Public)	Greenfield Station HOA (Private)
Watershed	Whetstone Run	Whetstone Run

Restoration Goals:

Upgrade stormwater pond to meet current MDE stormwater management regulations, repair and upgrade pond infrastructure to meet current safety standards, improve aquatic and wetland vegetation in Greenfield Station stormwater pond.

Stormwater Management Facility Retrofit Project Facts

Project Area: 0.80 acres (Upper County Recreation Center), 1.00 acres (Greenfield Station)
Project Status: Final Design
Estimated Start Date: March 2014
Estimated Completion Date: September 2014 (with plantings)

Project Selection

These stormwater facilities were identified for retrofit in the Great Seneca Watershed Implementation plan which details how the county will meet its MS4 permit requirements. Additionally, these facilities were chosen because of their age and need for maintenance. Included

in the Great Seneca Creek watershed are residential developments that were built before the current state and local storm water management regulations were in place. The facilities at the Upper County Recreation Center and Greenfield Station were among those identified as a potential retrofit due to their date of construc-

tion and current condition.

Pre-Retrofit Conditions

The existing stormwater management ponds provide some channel protection and water quality but fail to meet current MDE stormwater management requirements. Preliminary inspections of the ponds re-

vealed several deficiencies. The existing pond at Greenfield Station has an internal seepage problem, inadequate stormwater capacity, and an outdated concrete riser. The Upper County Recreation Center pond has inadequate stormwater management capacity, an outdated brick riser, and a lack of vegetation.



ABOVE: The existing riser at the Upper County Recreation Center pond will be replaced with one that will allow the facility to meet current stormwater management requirements.



ABOVE: To provide additional storage capacity and meet current MDE standards, the Upper County Recreation Center pond side slopes will be re-graded and the basin re-landscaped to provide a more aesthetically pleasing facility.

Proposed Retrofit Actions

Modifications and repairs will be made to both existing facilities to better meet current MDE stormwater management requirements for channel protection and water quality.

Upper County Recreation Center Stormwater Management Pond

The conceptual design for the Upper County Recreation Center pond features replacing the existing concrete riser with a new concrete riser designed to more adequately control stormwater. The bottom and sides of the pond will be re-graded to provide additional storage. The outfall into the pond will also be improved by upgrading the pipes and installing

BELOW: The outdated brick riser at Greenfield Station will be replaced with a new concrete riser that meets current MDE standards.



rocks to slow down incoming water and prevent erosion. The pond will remain a dry pond.

Greenfield Station Stormwater Management Pond

Native plants will be planted along the shoreline and slopes pond to facilitate nutrient uptake. The design for the pond consists of replacing the current brick riser with a new concrete riser to better control stormwater. The sides of the pond will be re-graded to provide greater stormwater capacity. The internal seepage problem in the dam embankment will be abated by installing an internal drain to collect and properly drain away water. The permanent pool will remain.

BELOW: Native Plants will be planted around the edges of the Greenfield Station pond to filter stormwater and facilitate diverse aquatic plant, animal, and insect populations.



For more information:



Contact: Doug Marshall/240-777-7767/douglas.marshall@montgomerycountymd.gov
 Department of Environmental Protection / Division of Watershed Management
 255 Rockville Pike, Suite 120, Rockville, MD 20850
www.montgomerycounty.gov/dep