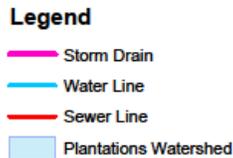
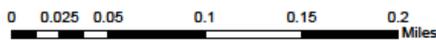
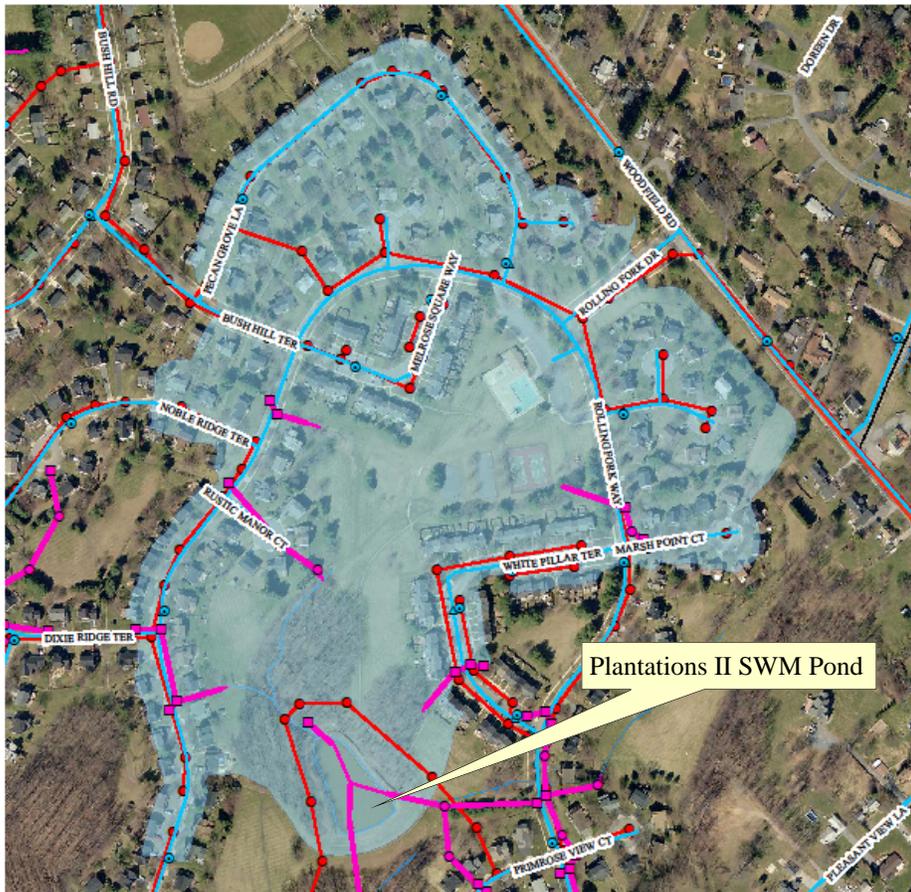


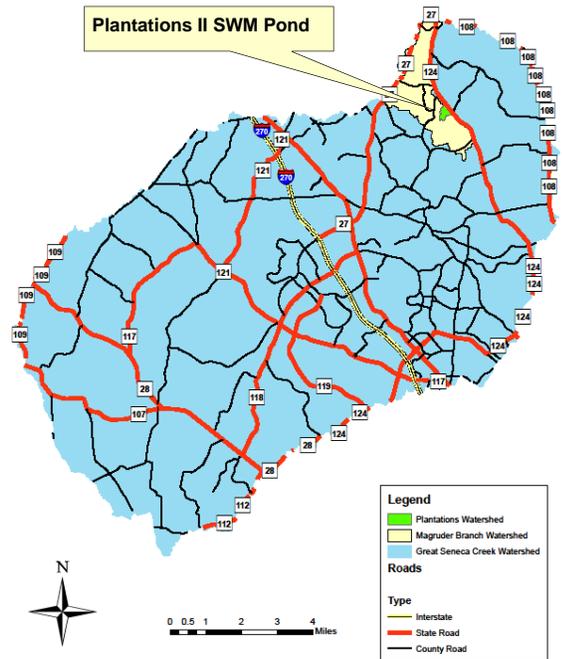
Storm Water Management Facility Retrofit FACT SHEET:

Plantations II Stormwater Management Pond

Retrofit Project View



Watershed View



Plantations Storm Water Management Facility Facts:

Drainage Area: 88 acres (0.14 sq.mi.)
Impervious Cover: 17.5 acres (20%)
Property Ownership: Plantations II Homeowner's Association
Watershed: Great Seneca Creek - Magruder Branch

Restoration Goals:

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

Storm Water Management Facility Retrofit Project Facts:

Limits of Disturbance: 2 Acres
Project Status: Detailed Design
Estimated Start Date: Summer 2014
Estimated Completion Date: Fall 2014

Project Selection

Montgomery County has a continuing commitment to protect and improve its water resources. *The Countywide Stream Protection Strategy*, (CSPS, 1998, updated 2003), published by the Department of Environmental Protection—DEP, evaluated biological, chemical, and habitat conditions of streams in the county, and identified impaired "priority" sub-watersheds for restoration. This storm-water facility was identified for retrofit in

the Great Seneca Watershed Implementation plan which details how the county will meet its MS4 permit requirements. Additionally, this facility was chosen because of its age and need for maintenance.

The Plantations II Stormwater Management Pond located on Rolling Fork Way meets the feasibility criteria for upgrading the storm water management pond. The Department of Environmental Protection's storm water management maintenance

section identified the facility as being a good candidate for update to current standards

Pre-Retrofit Conditions

The Plantations II Stormwater Management Pond was developed prior to current regulations for storm water management control. Uncontrolled storm water runoff from highly impervious areas creates erosive, high velocity or "flashy" storm water that cause damage to receiv-

ing streams and contribute significant sources of pollutants to local streams. The existing storm water management pond has sufficient room for storage; however, the control structure was not designed to meet current Maryland Department of the Environment (MDE) storm water management standards. In addition, there are several dam embankment safety measures that should be implemented on the dam to ensure continued safe and effective operation.



LEFT: The existing riser outlet structure is not watertight and therefore, susceptible to leaks. A water-tight riser structure such as this one shown from another project that provides the necessary performance for the retrofit will replace the existing structure.

BELOW: Additional native planting will be provided around the periphery of the permanent pool to improve the aquatic habitat of the pond.



Proposed Retrofit Actions

Expected construction activities for the retrofit are:

- Maintain the normal pool at approximately seven (7) feet.
- Modify the outlet works to meet current stormwater criteria and to ensure water-tightness
- Install an impervious liner on the upstream side of the dam.
- Landscape with native plants around the normal pool
- Install an internal drain to capture excess internal seepage and safely remove it from the dam.

Construction activities will have minor impacts on local traffic largely from construction traffic entering and exiting the project site from Rolling Fork Way and from contractor parking on Rolling Fork Way. Appropriate erosion and sediment control measures will be provided to control dust and muddy water runoff. The pond will need to be either partially or completely drained during construction for the safety of the workers and to accelerate construction.

RIGHT: An impervious liner will be installed on the upstream side of the embankment and an internal drain installed in the downstream side of the embankment to address internal seepage issues in and under the embankment. Neither installation will be visible once installed.



For more information:



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