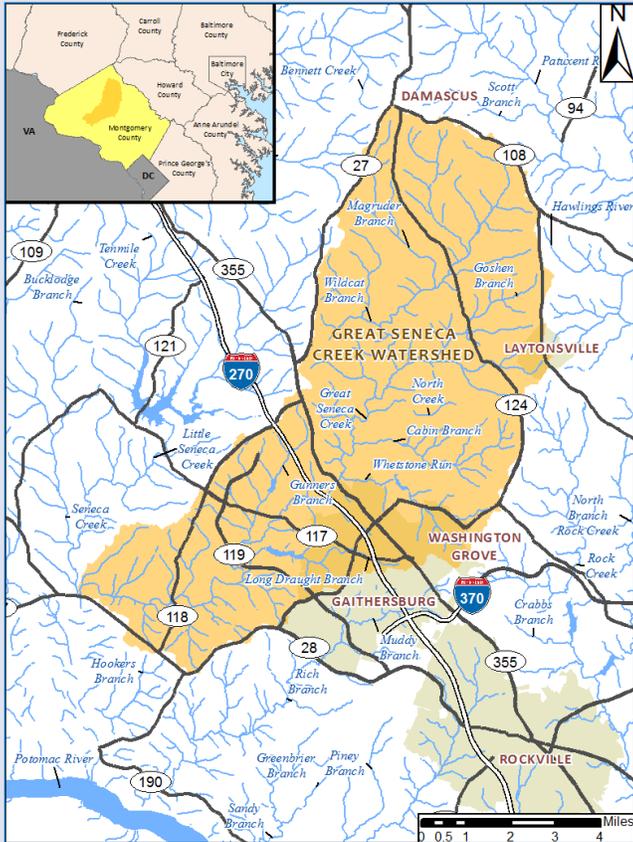


Stormwater Management Facility Retrofits FACTSHEET: Game Preserve Stormwater Management Ponds



Project Facts:

Watershed:
Great Seneca Creek

Combined Limits of Disturbance: 0.30 acres

Project Status:
Conceptual Design

Property Ownership:
Asset #11119 – Seneca Park
Montgomery County

Asset #11200 – Plumgar II Regional
Maryland National Capital Park and Planning Commission (M-NCPPC)

Estimated Construction Start Date: Spring 2015

Project Goals:

Montgomery County will be retrofitting the existing stormwater management facilities to meet current Maryland Department of the Environment (MDE) stormwater management guidelines to the maximum extent practicable, and current Dam Safety standards. The proposed design will replace the structural components of the ponds and provide improved environmental benefits.

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. They identified impaired “priority” subwatersheds for restoration. The stormwater management facilities are retrofit opportunities in the Great Seneca Watershed Implementation plan, which details how the County will meet the MS4 Permit requirements. The Department of Environmental Protection had identified these facilities as being good candidates for maintenance, retrofit and environmental improvements.

Pre-Retrofit Conditions:

The existing stormwater management ponds in the Seneca Park Neighborhood were designed in 1977 as dry facilities to collect runoff from the adjacent neighborhood development. The project area contains a high level of impervious surfaces (i.e. roads, rooftops, etc.) that forces rain water to run off untreated and directly into storm drain systems and ponds under study. Untreated runoff carries pollutants such as automobile oils, fertilizers, sediment, and trash into downstream waterways, degrading the water quality and natural habitat. The existing ponds were constructed with concrete principal spillway pipes and risers. These structures remain in good condition. The low flow openings for these ponds have become buried and there is evidence of sediment accumulation. Design standards have changed and pond capacity was designed to handle rainfall runoff for shorter storm events and smaller volumes of runoff than today.



Seneca Park



Plumgar II Regional

Proposed Retrofit Projects:

The County will retrofit both of these facilities to function as wet ponds to maximize water quality volume within the available footprint to the maximum extent practicable. The ponds will be graded to maintain a permanent pool in the facilities and aquatic vegetation will line the pond to improve aesthetics and function. The riser will be retrofit for water quality and channel protection to protect the downstream channel in frequent rainfall events.

Asset #	Total Drainage Area (acres)	Impervious Area (acres)	Water Quality Volume (WQv)		Channel Protection Volume (CPv)	
			Required (cubic ft)	Provided (cubic-ft)	Required (cubic-ft)	Provided (cubic-ft)
Seneca Park	17.63	6.53	24,394	8,276	28,750	28,750
Plumgar II Regional	81.29	19.80	79,279	79,279	147,668	147,668

Construction Expectations:

Construction of the proposed pond retrofits will be accessed off of Wheatfield Way (11119) and Winding Brook Lane (11200). Only minor impacts to local traffic are anticipated for equipment and material delivery.

The contractor will be responsible for complying with MDE sediment and erosion control guidelines and minimize disturbance. The site will be lined with orange construction fencing to prevent accidental or unauthorized access to the project site. The Montgomery County Noise Ordinance will be followed for all construction activities.

For more information, contact:



Contact: Darian Copiz, 240.777.7774, Darian.Copiz@montgomerycountymd.gov
 Department of Environmental Protection / Division of Watershed Management
 255 Rockville Pike, Suite 120, Rockville, MD 20850
www.montgomerycounty.gov/dep