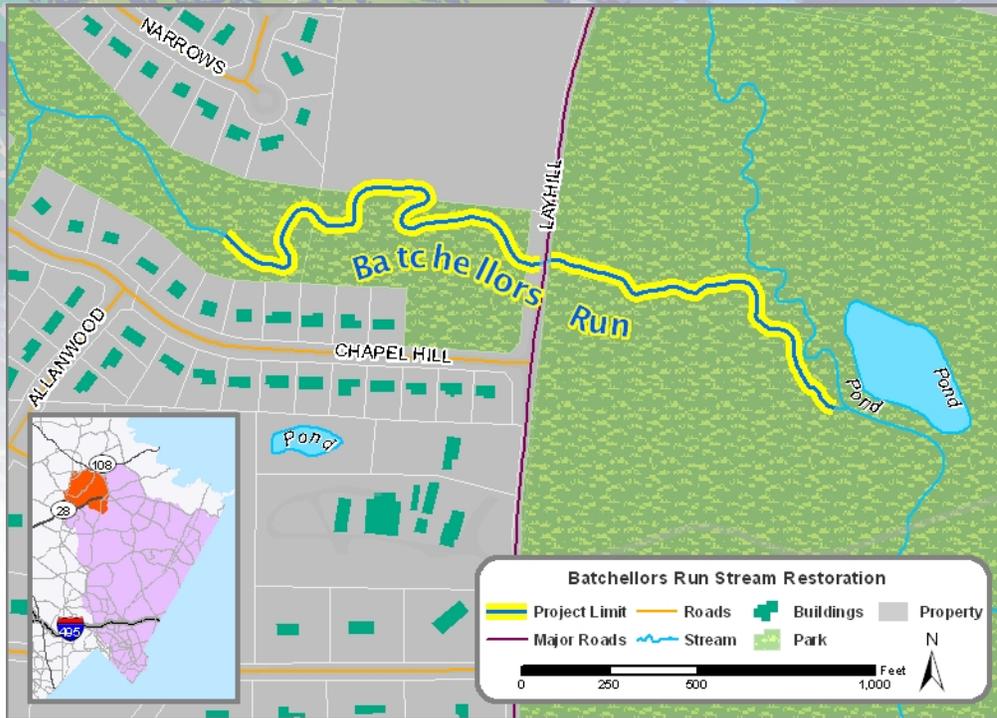




Watershed Restoration FACT SHEET

Batchellors Run I & II Stream Restoration



Stream Restoration Project Location along the Batchellors Run Tributary of the Northwest Branch

Visit our project website at : www.montgomerycountymd.gov/restorationprojects
Click Northwest Branch, then Batchellors Run Stream Restoration

Watershed Facts

Subwatershed Drainage Area : 4.9 square miles
Subwatershed Imperviousness : 7%

Property Ownership

Maryland-National Capital Park and Planning Commission and Montgomery County Board of Education

Restoration Goals

To stabilize eroding streambanks to reduce sediment entering the stream, improve aquatic habitat, enhance pool and riffle fish habitat, construct wetlands, create overhead cover for fish, and reforest stream banks for added bank stability and overhead cover.

Restoration Project Facts

Project Length : 0.5 miles
Drainage Area Captured : N/A
Estimated Costs :
Construction \$951,000, funded in part by United States Army Corps of Engineers (USACE)

Project Status :

Construction planned for fall 2012 to summer 2013

Stream Monitoring Facts

Pre- and Post- Restoration Monitoring will be conducted following MCDEP Monitoring Protocols.

Project Selection

The Batchellors Run tributary, along with several other stream reaches, was identified as a priority for restoration in the Northwest Branch Watershed Feasibility Study (July 2000). The Montgomery County Department of Environmental Protection, in collaboration with the Maryland-National Capital Park and Planning Commission and the U.S. Army Corps of Engineers completed three stream restorations for Upper Northwest Branch package 1 in 2011. Upper Northwest Branch package 2 projects include Sherwood Forest, Batchellors Run, and Woodlawn stream restorations, and are planned to be completed fall 2012 to summer 2013. The Batchellors Run stream restoration project is split into two phases. Phase I is downstream of the Layhill Road crossing, on the Northwest Park Golf Course. Phase II is upstream of the Layhill Road crossing.



The Batchellors Run tributary west of Layhill Road (phase II), showing streambank erosion, debris jam, and sediment deposition prior to restoration.



The Batchellors Run tributary east of Layhill Road (phase I) on the Northwest Park golf course prior to restoration. Upstream view shows streambank erosion and lack of canopy cover and riparian buffer.



Survey crews take note of the severity of streambank erosion on the Batchellors Run tributary prior to restoration.



Extent of streambank erosion on the Batchellors Run tributary downstream of the Northwest Park golf course fairway, prior to restoration.

Pre-Restoration Conditions

Much of the Northwest Branch Watershed was developed prior to regulations requiring stormwater management control, and contains a high percentage of impervious surfaces. Uncontrolled stormwater runoff from highly impervious areas creates erosive, high velocity or "flashy" flows that cause damage to receiving streams.

The Batchellors Run tributary is characterized by eroded streambanks, unstable channel materials, low flow conditions, minimal access to floodplain and interaction with wetlands, and a general lack of instream cover for fish. Instream habitat, overhanging vegetative cover, and riparian canopy is particularly lacking on the golf course site. The area upstream of Layhill Road is completely forested with adequate vegetative cover, but lacks instream habitat for fish.

While the Batchellors Run site does not currently exhibit serious degradation, there are opportunities, through careful repair and enhancement of habitat, to maintain and improve stream stability that would otherwise continue to deteriorate.

Restoration Actions

Entrance to the site for construction is anticipated from Layhill Road and Chapel Hill Road. Restoration activities are planned for approximately 1,000 feet on either side of the Layhill Road crossing. Stone toe protection with plantings will help provide streambank stability and shade for instream habitat. Instream structures will include log and rock vanes which direct water away from unstable stream banks, form downstream scour pools, and provide good habitat for fish. Other planned stream habitat features include rock wing deflectors and riffle grade controls. Trees will be planted and vernal pool wetlands and floodplain access will be created to enhance the riparian zone alongside the stream.



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