

WASHINGTON SUBURBAN SANITARY COMMISSION (WSSC)

# WSSC Water Resources Engineering Services On-Call

City of Rockville, Montgomery County and Prince George's County, Maryland



As part of an on-call contract with the Washington Suburban Sanitary Commission (WSSC), Biohabitats is preparing design and construction plans for the restoration of two streams within the Rock Creek Watershed, including a section of Croydon Creek within the City of Rockville and a tributary to Fenwick Branch in Silver Spring. These projects will protect WSSC assets that have become exposed as a result of stream channel migration, as identified in a Consent Decree with the U.S. Department of Justice.

Hydrologic impacts from years of development have led to channel migration and the exposure of several WSSC sanitary sewer lines. The exposed pipes are vulnerable to damage from debris flows in the streams as well as infiltration or exfiltration caused by the differential pressures between the stream and pipes.

Biohabitats has been working with WSSC and the City of Rockville to develop robust solutions that minimize disturbance to adjacent natural resources and meet the needs of all stakeholders.

*Our design, permitting, construction oversight, and emergency expediting services protect WSSC infrastructure as well as surrounding natural assets.*

Our restoration plans include covering and protecting the exposed infrastructure with grade control structures; relocating channels and reintroducing natural stream channel design features; and protecting the existing forest, stream and park experience to the greatest extent possible. Design efforts include geomorphic assessment, natural resource investigation, forest stand delineation, hydrologic and hydraulic modeling, development of specifications, and an estimate of probable construction costs. We also obtained permits from the Maryland Departments of the Environment and Natural Resources.

In addition, Biohabitats provides emergency stream restoration services for sites across Montgomery and Prince George's Counties under this

on-call contract. We fulfill WSSC's demands for fast turnaround of design documents, local and state permit support, and construction oversight in order to expedite essential repairs for failing infrastructure within streams and other sensitive areas. Even in an emergency repair context, our consistent approach is to protect both the infrastructure and the surrounding natural areas. Since April 2010, Biohabitats has designed emergency repairs for nine sites and fully executed construction oversight and as-built drawings for seven sites, including three sites owned by the Maryland-National Capital Park and Planning Commission (M-NCPPC).

## SERVICES

Inventory & Assessments  
Design  
Permitting

*conservation planning*  
*ecological restoration*  
*regenerative design*



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