

Scott G. McGill
*Ecotone, Inc, Principal
Restoration Specialist*

Education B.S., Natural Resource Management, University of Maryland, College Park, MD, 1989
Graduate Studies in Environmental Sciences, Johns Hopkin's University, Baltimore, MD
River Restoration Design Implementation, Wildland Hydrology, 2005
Applied River Restoration and Design, Wildland Hydrology, 1996
River Monitoring and Assessment, Wildland Hydrology, 1995
River Behavior and Morphology, Teton Science School, 1992
Applied Fluvial Geomorphology, Wildland Hydrology, 1992

Mr. McGill is an expert in the design of stream, wetland, and watershed restoration solutions, using fluvial geomorphic principles, stream classification, bioengineering techniques, natural stability concepts, and live vegetative materials. He has applied experience in the assessment and restoration of urban and rural aquatic habitats in the Mid-Atlantic, New England, and Southern regions of the United States. He has designed and supervised construction of over 50 stream and wetland restoration projects. He has extensive project management experience, and is well respected in the field of environmental restoration. He has organized, coordinated, and taught numerous short courses and seminars on stream restoration using the natural stability approach.

Selected relevant projects include:

Modlin Property Wetland Restoration, Martin County, NC, 2006. Ecotone Project Manager. Coordinated project acquisition, completion categorical exclusion documentation, provided quality control and managed the overall design and permitting to provide 40 riverine WMU's to the NCEEP under contract to Albemarle Restorations, LLC.

Mason Property Wetland Restoration, Hyde County, NC, 2006. Ecotone Project Manager. Coordinated completion categorical exclusion documentation, provided quality control and managed the overall design and permitting to provide 16 riverine WMU's and 20 non-riverine WMU's to the NCEEP under contract to Albemarle Restorations, LLC.

Falling Spring, Headwaters Restoration, Chambersburg, PA, 2006. Design consultant. Assessed and designed restoration for 2,600 linear feet of a world renowned spring creek for the Falling Spring Greenway, including the restoration of the headwaters of the creek, converting the 700 foot reach from a pond into a meandering stream. As the grant and overall project manager, tasks completed included development of a comprehensive grant proposal, restoration design of three separate reaches, permit acquisition, construction oversight, and monitoring. The project was completed in June of 2006.

Mount Pleasant Wetland and Riparian Buffer Restoration, Howard County, MD, 2006. Project Manager. Coordinated project acquisition, design of both wetland and riparian restoration totaling over 21 acres.

Ritchie Branch Stream Restoration, Prince Georges County, MD, 2004. Design consultant and construction supervisor. Provided stream restoration design consultation to project engineer for overall Ritchie Road improvements project. Design included stabilization and partial realignment of over 1,000 linear feet of stream channel, as well as creation of approximately 1 acre of floodplain wetlands. Design included geometry plan, water diversion systems, bank stabilization using bio-engineering techniques including live staking, coir matting, and root wads, grade control using cross vane weirs, boulder vanes, boulder-toe bank protection, step-pool channels, and a comprehensive planting plan. Also acted as Construction Inspector for construction of the project.

Falling Spring Quarry Meadow Restoration Chambersburg, PA, 2002. Design consultant. Assessed and designed restoration for 4,000 linear of a world renowned spring creek for the Falling Spring Greenway. As the restoration specialist and overall project manager, tasks completed included development of an overall watershed plan, geomorphic survey of the project reach and reference reach, led public meetings to facilitate public awareness, detailed design drawings, applied for and received waterway encroachment permit and 404 Corps permit, coordinated and oversaw construction. The project also included restoring wetland hydrology to adjacent pasture areas as a result of

the elevation of the spring's watertable. The project was completed in September of 2002, one full year ahead of schedule, and was recently awarded PA Trout's Project of the Year Award.

Booze Creek Stream Restoration Project, Bethesda, MD 2006. Design-Build Project Manager. Provided assessment and final design plans for 1,200 linear feet of restoration of an entrenched and highly erodible reach of Booze Creek on the ground of the Holton Arms School. The design included reconfiguration of the channel plan form, stabilization of streambanks using imbricated riprap, boulder vanes, bioengineering, and riparian plantings. Managed construction with Ecotone as the Prime Contractor. The project was successfully constructed in 2006.

East Branch Winter's Run, Fallston, MD, 2004. Design consultant and Project Manager. Designed 1,750 linear feet of channel relocation and the creation of 7 acres of floodplain wetlands. Design included geometry plan, water diversion systems, bank stabilization using on-site sod and wetland transplants, grade control using cross vane weirs, and a comprehensive planting plan. Also acted as Construction Inspector for construction of the project.

Tributary to Rock Creek Stream Restoration, Washington DC, 2001. Design consultant. Designed a restoration plan 300 feet of a first order stream system on the Lowell School grounds. Design involved restoring a riffle pool configuration to the channel profile, reestablishing a gravel bed, and constructing several wetland habitats to be utilized for the school's outdoor classroom educational studies. Also provided construction services and oversight.

Little Pipe Creek Stream Restoration, Union Bridge, MD, 2000. Design consultant. Designed a restoration plan for reconfiguring 2,000 linear feet of Little Pipe Creek. Project involved the reconfiguration and new channel construction to restore long-term stability and habitat to Little Pipe Creek. Boulder vanes, cross vane weirs, wetland sod transplants, and willow transplants were utilized in the design. The project was constructed in 2000 and is used as a model project by the EPA.

Mount Royal Avenue Stream Restoration, Aberdeen, MD, 2002. Design consultant. Designed a restoration plan for 600 linear feet of an urban stream. Design included channel realignment, bank stabilization using coir rolls and boulder structures. Construction was completed in January of 2002.

Dickenson Run, New Windsor, MD, 1998. Design consultant for the restoration of over 2,500 linear feet of stream in Little Pipe watershed. Bioengineering and boulder structures are proposed to stabilize outer meander bends. The design was completed in 2000 with construction by Ecotone to occur in 2004.

Bent Creek Stream Restoration, Hamblen County, TN. 1997. Design consultant. Designed and provided construction oversight for the restoration of 1,800 linear feet of a small Tennessee stream impacted by agricultural activities. The design included stabilizing the banks utilizing wetland transplants, boulder vanes, and woody shrub and tree transplants. The design and construction were placed on a fast track schedule and the project was completed within a 3 month time period.

Tributary to Little Bennett Creek, Damascus, Montgomery County, MD, 1999. Design consultant. Designed and constructed 1,200 of stream restoration on a first order USE III stream and 5 acres of non-tidal wetlands as part of an overall wetland mitigation and stream restoration project. The invert of the channel was raised three feet in order reduce entrenchment and improve the stream's access to the floodplain. Four acres of wetlands were created and restored adjacent to the restored stream.

Eldred Hunting and Fishing Preserve, Eldred, NY, 1998. Geomorphic assessment, stream classification, and hydrology assessment were completed for 1.5 miles of Halfway Brook in a rural watershed. A fisheries habitat enhancement plan was completed.

Bent Tree Golf Course, Columbus, Ohio, 1998. Project manager and geomorphologist. Geomorphic assessment and restoration design using sod mats and boulder structures for 5,000 of streambank.

Catskill Mountain Watershed Assessment Project, Shokan, NY, 1997. Project manager. Trained personnel in reference reach installation. Calibrated numerous gage stations and developed regional channel geometry relationships for the Esopus and Delaware sub-watershed areas.

Cross Creeks, Dover TN, 1996. Project manager and design consultant for a \$2,000,000 bioengineering shoreline restoration project to restore stability to 1.4 miles of the Cumberland River. Tasks completed included hydraulic and gage station analysis, concept design alternatives, GPS survey, reference reach assessment, bioengineering test plantings, specifications, 10%, 35%, 75%, and 95% completion submittals, and permitting.