

Staff Scientist

FIELDS OF EXPERTISE

Watershed restoration; Stream channel restoration, assessment and monitoring; Stormwater management and compliance; NPDES & general permitting; Grant preparation.

HIGHLIGHTS OF EXPERIENCE

Mr. Gothier is a staff scientist with over 7 years of experience in watershed and geoenvironmental related projects. His previous work with a County Conservation District has provided extensive experience in management of all facets of watershed based restoration, protection, assessment, monitoring, and educational projects. Mr. Gothier has overseen and directly participated in numerous stream and lake restoration projects. Other project experience includes soil and groundwater sampling, monitoring well installations, preliminary hydrogeological studies, groundwater nitrates modeling, and water supply and feasibility studies.

Bill has over five years experience in providing stream and pond management assistance to homeowners, associations and businesses. He has worked with Aqua Pennsylvania to decrease nutrients on the two largest reservoirs in Delaware County which provide potable water to over 200,000 people. While employed at the County Conservation District he also served as project manager and grantee on a source water assessment for Aqua PA's Springton Reservoir. Bill has provided several pond owners with technical assistance including land management techniques to improve pond and stream quality as well as drainage and volume control.

PROJECT EXPERIENCE

- Oversight and participation in various watershed activities including: PA Act 167 Stormwater Management Plans, PA DCNR River Conservation Plans, PA DEP Source Water Assessment Studies, the National Floodplain Management Program, and NPDES permitting program.
- Formulating and administering County and Municipal NPDES MS4 permits.
- Grant preparation and management including the award winning PA DEP Growing Greener Grant Program.
- Design, oversight and implementation of stream restorations using bioengineering and natural stream channel design methods.
- Investigation and resolution of complaints concerning erosion, stream encroachment, or stormwater.
- Formed, administered, and assisted with local watershed organizations.
- Formulating partnerships with non-profits, government agencies, volunteer groups, and institutions to accomplish watershed based goals.
- Inspecting and permitting both new and failing stormwater inlet, outlet, and conveyance structures.
- Secured funding and provided technical assistance for several schools in Delaware County to install or maintain ponds as outdoor classrooms.
- Collection of background and historical information, site observations, and report preparation.
- Sampling data management.
- Preparation of preliminary hydrogeologic reports and mass balance modeling for nitrate loading due to land development.
- Construction management and oversight.
- GIS and database management.
- Preparation of water supply and feasibility studies for land development and municipal supplies.

EDUCATION

B.S., GeoEnvironmental Studies, Shippensburg University, Shippensburg, PA, 1999.