
STORMWATER MANAGEMENT, DESIGN AND INSPECTIONS



Sterling Environmental Engineering, P.C. offers **STORMWATER MANAGEMENT, DESIGN, PERMITTING AND INSPECTION SERVICES** including stormwater management design and hydrologic and hydraulic engineering studies for commercial, industrial and private site development projects. These services range from incidental to a wetland restoration project, to specific, such as watershed studies to address flooding or erosion control. STERLING's engineers and environmental scientists work together to design stormwater management solutions which minimize potential impacts to wetland and sensitive environments.

STERLING strives to develop effective solutions that fit the client's needs and budget for stormwater management and regulatory compliance. STERLING has the experience and the ability to evaluate existing stormwater management issues and recommend standard and accepted proprietary solutions. A watershed-based approach is commonly used to provide an overall understanding of how to manage stormwater and water resources. Potential obstacles and opportunities are addressed at the beginning stages which reduce unnecessary time and costs associated with site development and management. Additionally, construction oversight and site inspections are key elements in permit compliance and the avoidance of costly fines and downtime. STERLING staff is certified and credentialed to perform stormwater inspections as required by New York State.

STERLING also provides assistance with permitting compliance issues, such as regulatory agency enforcement cases related to Clean Water Act violations. We are often called upon to serve as experts to support litigation and administrative hearings.

REPRESENTATIVE SERVICES:

- Stormwater Management, Drainage Studies and Permits
- Stormwater Pollution Prevention Plans (SWPPP)
- Erosion and Sediment Control Plans
- Watershed Modeling and Analysis (including the use of HydroCAD)
- Stormwater Basin, Wetland and Infiltration Design
- Low-Impact Development Design (Green Infrastructure)
- Hydrologic and Hydraulic Studies (including Open Channel Hydraulics and Stable Channel Design)
- Floodway Delineation
- Streambank Stabilization
- Stormwater Inspections (by "Qualified Inspectors")
- Regulatory Compliance
- GIS Data Collection and Mapping
- Engineering Design
- Construction Management
- Litigation Support and Expert Services
- Environmental Monitoring
- Environmental Impact Analysis
- NPDES Compliance
- MS4 Program Compliance
- Multi-Sector General Permit Compliance
- Construction Activity General Permit Compliance

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STERLING provides these services to a wide variety of clients, including municipalities, state agencies, construction contractors, private land developers, commercial and industrial businesses, legal firms and individual homeowners.

PROJECT EXPERIENCE:

- Regional Drainage Study to Quantify Development Impacts Over Time
- SWPPP Development, Engineering, Permitting and Inspections for Construction Activities including:
 - Stormwater Management Design for Golf Course Improvements Located on a Water Supply Lake
 - Residential Development
 - Highway Construction
- Multi-Sector General Permit SWPPP Development and Inspections for Industrial Facilities, including:
 - Mines
 - Manufacturing Facilities
 - Solid Waste Management Facilities
 - Boatyards
- Watershed Assessment & Modeling for Stream/Wetland Restoration Project
- Addressed Town-Wide Stormwater Management in a Generic Environmental Impact Statement (GEIS) for the following Towns in the New York City Department of Environmental Protection – West of Hudson Reservoir:
 - Town of Windham
 - Town of Manor Kill
 - Town of Jewett
- Third Party Review of Proposed Stormwater Management Designs



STERLING staff has extensive training and experience in stormwater analysis, management, design, best management practices, inspections and spill prevention. STERLING staff includes Certified Professional in Erosion and Sediment Control (CPESC) and Storm Water Quality (CPSWQ).

CONTACT INFORMATION:

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