



STERLING ENVIRONMENTAL ENGINEERING, P.C.
STATEMENT OF QUALIFICATIONS

2018

“Serving our clients and the environment since 1993”

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STERLING ENVIRONMENTAL ENGINEERING, P.C.

CORPORATE OVERVIEW

Sterling Environmental Engineering, P.C., a professional corporation founded by Mark P. Millspaugh, P.E. in July 1993, provides a wide range of environmental consulting and professional engineering services to the public and private sectors.

STERLING is located at 24 Wade Road, Latham, New York, convenient to both the Central Office of the New York State Department of Environmental Conservation (NYSDEC) and the NYSDEC Region 4 office.

STERLING manages projects involving solid and hazardous waste management and permitting, brownfield development, third-party cost estimates, environmental impact analysis, site investigations and remedial plans, construction management, expert testimony, litigation support, and Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) cost recovery.

STERLING has been designated by the NYSDEC as a Qualified Remedial Consultant (QRC) for solid and hazardous waste site projects and Environmental Quality Bond Act (EQBA) Title 3 work.

A detailed project list outlining STERLING's experience is presented on Page 11, Project Experience.

STERLING provides expert service for environmental law firms relative to regulatory permitting and compliance and litigation support. STERLING is experienced in making presentations before the public and in court. These include informational presentations, appearances at adjudicatory hearings and formal court proceedings. Our representation is used for fact and expert testimony.

Law firms utilizing STERLING include:

- Bond, Schoeneck & King, PLLC
- Bowitch & Coffey, LLC
- Girvin & Ferlazzo, P.C.
- Hancock Estabrook, LLP
- Harris Beach, LLP
- Hiscock & Barclay, LLP
- McCabe & Mack, LLP
- McNamee, Lochner, Titus & Williams, P.C.
- Nixon Peabody, LLP
- Nolan & Heller, LLP
- Periconi, LLC
- Richard Hoyt, Esq.
- Synder & Snyder, LLP
- The West Firm, PLLC
- Tuczinski, Cavalier & Gilchrist, P.C.
- Westervelt & Rea
- Welby, Brady & Greenblatt, LLP
- Whiteman Osterman & Hanna LLP
- Young Sommer, LLC
- Zarin & Steinmetz

STERLING routinely manages large complex multi-disciplined projects and diverse consulting teams including experts in:

- Visual Impact Studies
- Traffic Studies
- Noise Modeling
- Archeological and Historic Investigations
- Vibration Monitoring

STERLING served as the team leader and project manager for projects including:

- Clinton County, DEIS;
- Hudson Partnership, Review of St. Lawrence Cement Application;
- Oil City, Environmental Compliance;
- Palisades Center Mall, Environmental Compliance;
- Town of Gardiner, Avesting Reserve Project Review;
- South Troy Brownfields Assessment Demonstration Pilot Project;
- Town of Windham GEIS on the Development Capacities; and
- Capacities of the Cooperstown Region GEIS.

STERLING maintains professional liability insurance. When requested, STERLING will provide a Certificate of Insurance when contracting for specific services.

STERLING has developed a Project Quality Assurance/Quality Control (QA/QC) program that provides projects with a principal in charge. For engineering projects, Mark P. Millspaugh, P.E., owner of STERLING, serves as the principal in charge. Mr. Millspaugh is a Registered Professional Engineer in the States of New York, Vermont, Pennsylvania and New Hampshire.

STERLING's project management and cost control policies are based upon developing a clear scope of work and service agreement, which clearly delineate the required level of effort and deliverables for the project, as well as terms and conditions of the business arrangement.

OUR PHILOSOPHY

STERLING is committed to deliver quality services by partnering with our clients to achieve our client's goals. STERLING's business philosophy is based on a commitment at all levels of the organization to provide quality consulting services and to create value for our clients. STERLING strives to develop innovative and creative solutions to environmental problems. We treat our clients as business partners. STERLING's success in this highly regulated and competitive field is testimony to our commitment to quality.

Based on our extensive qualifications and experience, the NYSDEC designated STERLING as a Qualified Remediation Consultant for hazardous waste site remediation and development projects funded under New York State's Environmental Restoration Program and Environmental Quality Bond Act.

STERLING has become the consultant of choice in such diverse areas as landfill design and closure, Beneficial Use Determinations (BUDs), environmental assessments and compliance evaluations, hydrogeologic studies, litigation support and siting/remedial investigations. STERLING measures its success in terms of the significant repeat business with existing clients and newly obtained work or referral from existing clients.

STERLING's success is based on its five corporate strengths:

- Technical Competence – STERLING's technical competence consists of professionals in integrated disciplines including: geology, hydrogeology, environmental permitting, civil and environmental engineering and computer-aided drafting and design. These resources benefit STERLING's clients through our in-house ability to assemble highly competent project teams and demonstrated ability to take advantage of a multi-discipline approach to a project. STERLING's senior staff have experience in the public and private sectors, as well as in academia and industry.
- Project Management - STERLING is unique in the field in that all project work is personally directed by the company's principal, Mark P. Millspaugh, P.E., who has 40 years experience in the fields of solid and hazardous waste management and environmental permitting. Mr. Millspaugh provides the guidance needed to manage the project's environmental and engineering needs.
- Client Advocacy – STERLING's approach to addressing complex environmental issues and projects is to strategically manage the permitting and/or regulatory approval process. Careful management of the permit review and approval process is key to our success in obtaining permits and approvals for our clients. STERLING's staff prides themselves on being true advocates for clients. We work diligently to represent the client's best interests before regulators, municipalities, investors and the public.
- Innovation and Entrepreneurship - STERLING is committed to creating the greatest value for our clients. Our professionals provide quality consulting/engineering services and, because of our size and philosophy, STERLING looks for and is able to suggest and implement innovative solutions and strategies to advance our clients' interests. Where appropriate, STERLING has partnered with clients, resulting in unique methods of delivering services.

- Viewing Waste Materials as a Marketable Commodity - STERLING recognizes that waste materials often have potential as marketable commodities or can be utilized beneficially. STERLING often develops solid waste management solutions that create significant value for its clients, while minimizing their long-term liability. STERLING has successfully identified beneficial construction applications for a wide variety of waste materials, resulting in the clients being compensated for the use of the material rather than paying for its management or disposal. STERLING has also developed landfill construction, operational and closure programs that utilize solid waste as cover materials, therefore avoiding the need to purchase earth materials at prevailing market prices.

OUR SERVICES

STERLING is well qualified and experienced to provide numerous environmental services that enable our clients to take a comprehensive approach to addressing complex environmental issues. The following list represents the range of services provided by STERLING:

ENVIRONMENTAL IMPACT ANALYSIS

- Environmental Impact Analysis and SEQRA Compliance
 - Baseline Environmental Studies
 - Hydrogeologic Investigations
 - Geotechnical Evaluations
 - Wetland Delineation
 - Threatened/Endangered Species
 - Traffic Studies
 - Archaeologic and Historic Resource Evaluation
 - Wastewater and Water Resource Evaluation
 - Noise Impact Analyses
 - Visual Impact Analyses
- Environmental Impact Statements (EIS)
 - Site Characterizations
 - Draft Environmental Impact Statement (DEIS)
 - Final Environmental Impact Statement (FEIS)
 - Generic Environmental Impact Statement (GEIS)
 - Findings Statements
 - Responsiveness Summaries

SOLID WASTE MATERIALS RECYCLING & TRANSFER STATIONS

- Recycling Programs
- Operations & Maintenance (O&M) Manuals
- Contingency Plans
- Facility Design
- State and Local Permitting
- Solid Waste Control Plans
- Leachate Collection and Disposal
- Material Recycling Facilities (MRF)
- Closure Plans
- Closure Cost Estimates
- Stormwater Multi-Sector General Permit

WASTEWATER & STORMWATER PLANS AND DESIGN

Stormwater

- Stormwater Management
- Construction Stormwater Permitting
- Multi-Sector Industrial Stormwater Permitting
- Storm Water Pollution Prevention Plans (SWPPPs)
- Stormwater Inspections (by “Qualified Inspectors”)

- Erosion & Sediment Control Plans
- Runoff Modeling and Analysis
- Best Management Practice Designs
- Low Impact Development Design (Green Infrastructure)
- MS4 Stormwater Compliance
- Regulatory Compliance

Wastewater

- Facilities Planning and Needs Surveys
- Comprehensive Plans
- Sewer System Evaluation Studies
- Infiltration Inflow Studies
- State Pollutant Discharge Elimination System (SPDES) Permitting
- Facility Designs
- Construction Management
- Operation and Maintenance
- Industrial Pretreatment
- Injection Well Assessment and Closure for United States Environmental Protection Agency (USEPA) Underground Injection Control (UIC) Program

LANDFILL ENGINEERING SERVICES

Landfill Engineering Services

- Landfill Siting Investigations
- Permit Applications
- Hydrogeologic Investigations
- Grant Applications
- Preparation of Detailed Plans, Specifications and Contract Documentation
- Waste Characterization Studies
- Environmental Impact Analysis
- Liner and Cover System Design
 - Industrial Waste
 - Municipal Solid Waste
- Construction Inspection/Resident Engineering
- Geotechnical Engineering
- Leachate Collection and Treatment
- Operation and Maintenance (O&M) Plans
- Contingency Plans
- Environmental Monitoring Programs
- Post Closure Monitoring and Maintenance Manual (PCMMM) Preparation
- Post Closure Monitoring and Maintenance
- Gas Control and Monitoring
- Closure Plans
- Geomembrane QA/QC Testing
- Borrow Source Evaluations
- Construction Certification
- Third-Party Cost Estimates

Solid Waste Services

- Comprehensive Solid Waste Planning
- Solid Waste Facility Siting Studies
- Economic Feasibility Studies
- Waste Characterization Studies
- Recycling Programs
- Hydrogeologic Investigations
- Subsurface/Geotechnical Investigations
- Federal, State and Local Regulatory Permitting
- Environmental Impact Analysis
- Engineering Design
- Environmental Monitoring Programs
- Beneficial Use Petitions
- Closure Programs
- Third-Party Cost Estimates
- Detailed Plans, Specifications and Contract Documentation
- Construction Inspection/Resident Engineering
- Construction Certification
- Post Closure Monitoring and Maintenance Programs
- Grant Applications

NATURAL RESOURCES

- Wetland Identification, Delineation and Classification
- Stream and Wetland Assessment, Restoration and Mitigation
- Natural Resource Inventories
- Wildlife Inventories
- Threatened and Endangered Species Assessment
- NYSDEC/USACOE Permits
- Environmental Impact Statements (EIS)
- Agency Enforced Action Compliance
- NEPA and SEQRA Compliance
- Floodway Delineation
- Streambank Stabilization
- Litigation Support and Expert Services
- Public Presentations and Expert Testimony
- Grant Applications

RESIDUAL MATERIALS MANAGEMENT AND BENEFICIAL USE

- Beneficial Use Petitions
- Residual Materials Management
- Material Tracking/Construction Supervision
- Alternate Grading Material
- Construction Certification

AIR SERVICES & INDOOR AIR QUALITY SAMPLING

- Sub-Slab Vapor Sampling
- Soil Gas Vapor Sampling
- Emissions Monitoring
- Part 201 Permits
- Title V Permits
- Mold Sampling
- Summa Canister Sampling
- Air Emissions Assessments
- Landfill Gas Monitoring
- Indoor Air Quality Mitigation

SITE DEVELOPMENT AND BROWNFIELDS

- Brownfield Applications
- Site Plan Applications
- Development Plans
- State and Local Permitting
- Site Characterizations
- Wetland Determinations/Delineations
- Environmental Site Assessments
 - Phase I
 - Phase II
 - Phase III
- Detailed Site Investigations
- Environmental Impact Analysis
- Negotiation of Administrative Orders
- Permit Applications
- Grant Applications
- Cost Estimating
- Risk Analysis and Evaluation
- Alternative Clean Up Criteria
- Public Outreach and Participation

HYDROGEOLOGIC SERVICES

- Groundwater Exploration
- Aquifer Mapping
- Groundwater Resource Evaluation
- Watershed Management and Protection
- Wellhead Protection Plans
- Water Supply Investigations
- Well Field Engineering
- Pumping Tests
- Well Design
- Preliminary Site Investigations
- Remedial Investigations
- Groundwater Monitoring and Sampling
- Contaminant Transport Studies
- Groundwater Modeling

- Mining Hydrology
- Permeability Testing

HAZARDOUS WASTE SITE SERVICES

- Site Assessments
- Delisting Petitions
- Remedial Investigations
- Contaminant Transport Modeling
- Feasibility Studies
- Interim Remedial Measures
- Final Remedial Programs
- Hazardous Waste Landfill Closures
- Construction Management/Resident Engineering
- Remedial Cost Estimates
- Expert Evaluations and Testimony
- Long-Term Operation and Maintenance
- Regulatory Agency Negotiations
- Risk Assessment
- Third-Party Cost Estimates
- Environmental Monitoring Programs
- Data Validation
- Compliance Monitoring
- Multi-Party Settlements
- RCRA Facility Closures
- Waste Analysis Plans
- Market Studies
- Hazardous Waste Facility Permits
- Health and Safety Plans

PETROLEUM SITE REMEDIATION, PETROLEUM AND CHEMICAL STORAGE TANKS AND SPILLS

- Petroleum Bulk Storage Permits
- Spill Prevention, Control and Countermeasure (SPCC) Plans
- Tank Inspection and Assessment
- Tank Removals and Closure Reports
- Spill Prevention Report
- Spill Assessment and Site Investigation
- Spill Remediation and Treatment
- Well Design and Installation
- Groundwater Monitoring and Sampling
- Third Party Cost Estimates
- Litigation Support

MINING

- Mining Permits & Renewals
- Modifications to Existing Mining Permits
- Mined Land Use Plans
- Reclamation Plans
- Mining Hydrology Studies
- Related Environmental Studies and Impact Analyses

EXPERT TESTIMONY, LITIGATION SUPPORT, MERGERS & ACQUISITIONS

- Adjudicatory Hearings & Expert Testimony
- Litigation Support
- Expert Evaluations
- Expert Witness

PROJECT EXPERIENCE

The following is a partial list of projects completed or currently underway by STERLING.

ENVIRONMENTAL IMPACT ANALYSIS

CLINTON COUNTY, Plattsburgh, New York

STERLING conducted and/or supervised baseline environmental studies, prepared a Draft Environmental Impact Statement (DEIS) and prepared the Long Term Development Plan associated with a major expansion of the Clinton County Landfill near Plattsburgh, New York. The DEIS carefully evaluated the existing environmental condition of the facility and its environs and assessed the potential environmental impacts to surface water, groundwater, visual resources and community character. Pre-expansion baseline conditions were defined for noise, dust, traffic and future impacts were modeled using industry-accepted methodology. STERLING conducted or supervised all supplemental field activities, data collection and reporting, and was fully responsible for the production of the DEIS document (a document that measures 15" in thickness).

STERLING's work product also served as the primary submittal to the Federal Energy Regulatory Commission (FERC) for related environmental approvals needed for the land transfer necessary for the landfill expansion project.

This multi-year role by STERLING was integral to New England Waste Services (NEWSNY's) and Clinton County's receipt of a permit from the NYSDEC and approvals from FERC for the initial phase of the project. The SEQRA compliance efforts by STERLING and the project team satisfied the additional permitting needs for the next 50 years.

COOPERSTOWN GEIS, Cooperstown, New York

Researched and prepared portions of the GEIS concerning water and wastewater infrastructure, including lake capacity, soil limitations and water and wastewater treatment facilities characteristics, capabilities and limitations.

SPRINGFIELD (Glimmerglass Opera), Springfield, New York

Representing the Town Planning Board, reviewed a proposal by an organization planning to expand its living facilities and associated wastewater treatment facilities. Issues were raised regarding wetlands, soils permeability, adequacy of former treatment facilities, and special requirements for the Otsego Lake drainage basin.

ST. LAWRENCE CEMENT, Hudson, New York (client: Columbia Hudson Partnership)

Reviewed air permit applications and an Environmental Impact Statement for deficiencies, especially with regards to issues that could affect local business and commercial development. Participated in issues conference and negotiation of a memorandum of agreement

TAYLOR BIOMASS ENERGY, LLC, Montgomery, New York

Prepared a DEIS and FEIS to address the construction of the Taylor Biomass Energy, LLC Gasification project including sections on traffic and transportation, visual resources, cultural resources, noise, air quality, zoning and other plans, community facilities, infrastructure, ecology, water resources, environmental justice and construction.

TOWN OF JEWETT, Jewett, New York

Researched and prepared GEIS sections on lakes and streams, wetlands, stormwater, flood plains, stream classification and discharge, trout stocking, septic systems, mineral resources, wildlife, plants, habitats, State forest land, New York State Department of State gravel mines, factors affecting buildout scenario and NYSDEC permits.

TOWN OF MANOR KILL, Conesville, New York

Researched and prepared GEIS sections on lakes and streams, wetlands, stormwater, flood plains, stream classification and discharge, trout stocking, septic systems, mineral resources, wildlife, plants, habitats, State forest land, New York State Department of State gravel mines, factors affecting buildout scenario and NYSDEC permits.

TOWN OF PINE PLAINS, Pine Plains, New York

Researched and prepared portions of a Comprehensive Plan for the Town of Pine Plains including a solid waste, water and wastewater infrastructure evaluation and needs assessment. The Comprehensive Plan also included a summary of soil limitations, drinking water well survey, groundwater quality and yield information, water and wastewater treatment facilities capabilities and limitations, watershed protection issues, and identification of potential funding sources to address future needs.

TOWN OF WINDHAM GEIS, Windham, New York

Researched and prepared the GEIS concerning stormwater turbidity, stormwater management, water and wastewater infrastructure, septic systems, soil limitations, utilities, cellular phone coverage, wireless internet coverage, public transportation, traffic constrictions and publicly owned land.

VILLAGE OF ATHENS, Athens, New York

Provided an analysis of visual, noise and stormwater impacts of an application to build a new asphalt facility.

SOLID WASTE MATERIALS RECYCLING & TRANSFER STATIONS

METRO ENVIRO, LLC, Croton-on-Hudson, NY

Prepared a permit application for a 1,450 cy/day construction/demolition and wood process and recycling facility.

MOUNT KISCO TRANSFER STATION, Village of Mount Kisco, NY

Stormwater basin designed to collect runoff from the impervious areas of the Mt. Kisco Transfer Station prior to discharging to a nearby NYSDEC wetland.

NORTHERN RECYCLING (Waste Management, Inc.), Goshen, NY

Complete design and permitting of a 400 ton per day solid waste transfer station. Preparation of 6 NYCRR 360 permit, plans, specifications, operation and maintenance manual, and environmental impact statement.

RECYCLING ORGANIC MATERIALS, INC., White Plains, NY

Prepared a Construction Certification Report for a leaf composting facility pursuant to 6 NYCRR 360 and permit modification.

ROCKLAND COUNTY SOLID WASTE MANAGEMENT AUTHORITY, Hillburn, NY

Evaluated differential floor wear at the Materials Recycling Facility, obtained floor repair material reports from benchmark facilities across the United States, recommended floor repair material and necessary specifications.

SOMERS SANITATION, Somers, NY

Design of facility improvements and associated modifications to the facility. Prepared 6 NYCRR Part 360 Permit renewal and a modification to a 6 NYCRR Part 360 Permit and negotiated approvals to same. Obtained and maintained Multi Sector General Permit coverage.

TAYLOR RECYCLING FACILITY, LLC, Montgomery, NY

Prepared site plans for a recyclables handling and recovery facility and Part 360 Permit Modification.

TOWN OF GARDINER, Gardiner, NY

Prepared design documents for modifications to the solid waste transfer station. Assisted with bidding and supervised construction.

ULSTER COUNTY RESOURCE RECOVERY AGENCY, Kingston and New Paltz, NY

Prepared a Renewal Permit Application, a Contingency and Response Plan, an Operation and Maintenance Manual, Noise Monitoring Studies, Floor Inspections, a Generic Floor Repair Plan, Secondary Containment Design for Petroleum Aboveground Storage Tanks, and a Sitewide Environmental Audit.

WASTEWATER & STORMWATER PLANS AND DESIGN

Stormwater Management Plans and Design

ALLIED WASTE SERVICES, Latham and Schenectady, New York

Developed a SWPPP and acquired a NYSDEC SPDES Multi-Sector General Permit (MSGP) for Industrial Activities. Perform monitoring required by the MSGP. Also, provide ongoing review of facility activities to ensure facility is in compliance and SWPPP is kept up to date.

CAMP FRENCH WOODS, Hancock, New York

Developed a Storm Water Pollution Prevention Plan (SWPPP) for the upgrades to the facility, which includes the upgrade and modification to existing wastewater treatment system onsite and proposed athletic field.

KEYMARK CORPORATION, Fonda, New York

Developed a SWPPP and acquired a NYSDEC SPDES Multi-Sector General Permit (MSGP) for Industrial Activities. Perform monitoring required by the MSGP. Also, provide ongoing review of facility activities to ensure facility is in compliance and SWPPP is kept up to date.

MCNEILLY WOOD PRODUCTS, INC., Campbell Hall, New York

Developed SWPPPs and acquired NYSDEC SPDES General Permits for Construction and Industrial Activities. Construction General Permit included engineering design of post-construction water quality and quantity controls.

MOUNT KISCO TRANSFER STATION, Village of Mount Kisco, New York
Stormwater basin designed to collect runoff from the impervious areas of the Mt. Kisco Transfer Station prior to discharging to a nearby NYSDEC wetland.

PRIVATE CLIENT, New Lebanon, New York
Analyzed an approximate 80 acre former logging site with significant stormwater issues. Designed a stormwater detention basin to bring the site into compliance with the current stormwater regulations.

RAY'S TRANSPORTATION, INC., New Windsor, New York
Developed a SWPPP and acquired a NYSDEC SPDES Multi-Sector General Permit (MSGP) for Industrial Activities. Perform monitoring required by the MSGP. Also, provide ongoing review of facility activities to ensure facility is in compliance and SWPPP is kept up to date.

RIFENBURG CONSTRUCTION, INC., Upstate New York
Developed SWPPPs and applied for stormwater permits for the operation and closure of fill disposal areas associated with transportation projects. Also completed the termination of stormwater permits.

ST. LAWRENCE CEMENT, Hudson, New York
Reviewed air permit applications and an Environmental Impact Statement for deficiencies, especially with regards to issues that could affect local business and commercial development. Participated in issues conference and negotiation of a memorandum of agreement.

TAYLOR HOLDINGS GROUP, LTD, Montgomery, New York
Developed a SWPPP for Construction Activity for a proposed biomass-to-energy facility, including post-construction water quality and quantity controls. Developed a SWPPP and acquired a NYSDEC SPDES Multi-Sector General Permit (MSGP) for Industrial Activities. Perform monitoring required by the MSGP. Also, provide ongoing review of facility activities to ensure facility is in compliance and SWPPP is kept up to date.

Industrial Wastewater and Sewage

AMERICAN CANDLE, Saugerties, New York
Performed an evaluation of the wastewater treatment system and industrial activities to satisfy an inquiry by the NYSDEC.

BOAT-N-RV WAREHOUSE, New Baltimore, New York
Performed a wastewater treatment facility study and preliminary design and cost estimate for a proposed RV campground and 24-hour restaurant.

CAMP FRENCH WOODS, Hancock, New York
Prepared SPDES Permit Application and design for upgrade and modification to existing wastewater treatment system serving a seasonal population of 1,000 people.

COOPERSTOWN AREA GEIS, Cooperstown, New York

Researched and prepared portions of the GEIS concerning water and wastewater infrastructure, including lake capacity, soil limitations and water and wastewater treatment facilities characteristics, capabilities and limitations.

KEYMARK CORPORATION, Fonda, New York

Prepared engineering report for replacement wastewater treatment facility and obtained NYSDEC approval to operate. Analyzed process wastewater from a particular process, conducted a sampling event of wastewater, and analyzed various options for onsite treatment and discharge to the Publicly Owned Treatment Works (POTW).

NEPERA, INC., Harriman, New York

Analyzed a NYSDEC draft permit and determined that several proposed effluent limits were inappropriate or excessive, particularly concerning mercury. Participated in NYSDEC negotiations on behalf of the client.

NORLITE CORPORATION, Cohoes, New York

Assessed liquid containment measures and spill response policies for a truck staging area managing liquid hazardous waste and petroleum waste, and sampled accumulated stormwater. Designed wastewater treatment facility and applied for wastewater modification to the State Pollutant Discharge Elimination System (SPDES) permit. Modified process wastewater and cooling water facility design and obtained modified SPDES permit.

PINE PLAINS, Pine Plains, New York

Researched and prepared portions of a Comprehensive Plan for the Town of Pine Plains including a solid waste, water and wastewater infrastructure evaluation and needs assessment. The Comprehensive Plan also included a summary of soil limitations, drinking water well survey, groundwater quality and yield information, water and wastewater treatment facilities capabilities and limitations, watershed protection issues, and identification of potential funding sources to address future needs.

SPRINGFIELD (Glimmerglass Opera), Springfield, New York

Represented the Town Planning Board, reviewed a proposal by an organization planning to expand its living facilities and associated wastewater treatment facilities. Issues were raised regarding wetlands, soils permeability, adequacy of former treatment facilities, and special requirements for the Otsego Lake drainage basin.

STONE BRIDGE FARMS, Greenport, New York

Design and construction oversight of a wastewater treatment system for a mobile home community.

TOWN OF WINDHAM GEIS, Windham, New York

Researched and prepared the GEIS concerning storm water turbidity, stormwater management, water and wastewater infrastructure, septic systems, soil limitations, utilities, cellular phone coverage, wireless internet coverage, public transportation, traffic constrictions and publically owned land.

LANDFILL ENGINEERING SERVICES

BARNES LANDFILL, Woods Road, Barryville, New York
STERLING conducted post closure monitoring and maintenance.

CASELLA WASTE MANAGEMENT – BOLA LANDFILL, Whitehall, New York
Landfill Closure Plan, construction supervision and resident engineering for the landfill final cover construction. STERLING currently conducts monitoring well sampling and explosive gas surveys, analyzes the results and submits a progress report on an annual basis.

CASELLA WASTE MANAGEMENT – SUNDERLAND LANDFILL, Sunderland, Vermont
Landfill Closure Grading Plan and Conceptual Landfill Closure Plan.

CENTRAL HUDSON GAS & ELECTRIC, Danskammer, New York
Landfill siting study for a coal ash management landfill. Developed NYSDEC Beneficial Use Application for utilization of coal fly ash within landfill closure and construction projects.

CHEMUNG LANDFILL & MATERIALS RECYCLING FACILITY, Elmira, New York
STERLING performed environmental due diligence, outlined the regulatory compliance status of the existing stormwater discharge from the Chemung Landfill, and prepared a SWPPP and SPCC Plan for the facility. In addition, STERLING performed a tank inspection and prepared tank registration.

CLINTON COUNTY, Plattsburgh, New York
STERLING conducted and/or supervised baseline environmental studies, prepared a Draft Environmental Impact Statement (DEIS) and prepared the Long Term Development Plan associated with a major expansion of the Clinton County Landfill near Plattsburgh, New York. The DEIS carefully evaluated the existing environmental condition of the facility and its environs and assessed the potential environmental impacts to surface water, groundwater, visual resources and community character. Pre-expansion baseline conditions were defined for noise, dust, traffic and future impacts were modeled using industry-accepted methodology. STERLING conducted or supervised all supplemental field activities, data collection and reporting, and was fully responsible for the production of the DEIS document (a document that measures 15” in thickness).

STERLING’s work product also served as the primary submittal to the Federal Energy Regulatory Commission (FERC) for related environmental approvals needed for the land transfer necessary for the landfill expansion project.

This multi-year role by STERLING was integral to New England Waste Services (NEWSNY’s) and Clinton County’s receipt of a permit from the NYSDEC and approvals from FERC for the initial phase of the project. The SEQRA compliance efforts by STERLING and the project team are ongoing and are expected to satisfy additional permitting needs for the next 50 years.

FICA LANDFILL, Poughkeepsie, New York
Site investigations and development of landfill closure, plans and specifications, construction supervision. STERLING secured most of the grading and final cover materials from a variety of alternative sources. Some of the material was accepted at no cost to the owner. Additional materials, such as coal ash, were accepted with a tip fee which was applied to the closure fund.

FRESHKILLS LANDFILL, New York City, New York

Expert testimony and evaluations concerning the remediation of the Freshkills Landfill.

HAKES C&D DEBRIS LANDFILL, Steuben County, New York

STERLING performed environmental due diligence, regulatory compliance and prepared a Long Term Development Plan for New England Waste Services of NY, Inc.

HILLS HOLDING CORPORATION C&D LANDFILL, Fallsburg, New York

A Remedial Investigation (RI) was conducted at the Hills Holding Corporation Construction and Demolition (C&D) Debris Landfill by STERLING from February to April 2007. The site abuts the Town's drinking water supply wellfield. The purpose of the RI was to characterize the Landfill waste, identify the physical extent of the waste mass boundary, and determine the nature and extent of contamination at and in the vicinity of the site. In addition, the information presented in the RI was also used to assess the need for remedial action(s). This site is an Environmental Restoration Project (ERP) funded under the ERP of the New York State Clean Water/Clean Air Bond Act.

An Alternatives Analysis was completed by STERLING and the selected remedy was presented to the NYSDEC. The proposed remedy included excavation and off site beneficial reuse of all Landfill waste and contaminated soil, which will prevent continued leaching of contaminants to groundwater.

PALISADES CENTER MALL, Nyack, New York

Environmental permitting and impact analysis, design and construction oversight for a large mall development project. Included landfill closure, petroleum spill remediation, installation of a leachate collection system, environmental monitoring, research leachate production rates and mitigation of leachate discharge to sanitary sewer.

PELHAM BAY LANDFILL, New York City, New York

Expert testimony and evaluations concerning the remediation of the Pelham Bay Landfill.

SCHUYLER FALLS LANDFILL, Clinton County, New York

Construction supervision and certification of the final cover installation.

SENECA MEADOWS, INC., Waterloo, New York

Permitting, closure plan, groundwater remediation project for 100-acre landfill site in Western New York.

TOWN OF BETHEL LANDFILL, Bethel, New York

STERLING currently conducts monitoring well sampling and explosive gas surveys, analyzes the results and submits a progress report to the NYSDEC on an annual basis.

TOWN OF CLARKSTOWN LANDFILL, Clarkstown, New York

STERLING was retained by the Town of Clarkstown to remediate a \$6,000,000 construction claim associated with the closure of the Clarkstown Landfill. STERLING conducted monitoring well sampling and explosive gas surveys, analyzed the results and submitted a progress report to the NYSDEC on a quarterly basis.

TOWN OF FALLSBURG LANDFILL, South Fallsburg, New York

Landfill Closure Plan, cover system design, plans and specifications for the Town landfill. STERLING developed an application resulting in the Town receiving a SRF Low Interest Loan for the Landfill Closure. STERLING currently conducts monitoring well sampling and explosive gas surveys, analyzes the results and submits a progress report to the NYSDEC on an annual basis.

TOWN OF MONROE LANDFILL, Monroe, New York

STERLING updated a pre-closure site investigation and developed a landfill closure plan and design.

TOWN OF MONTGOMERY, Montgomery, New York

Landfill cover installation, construction certification, EQBA Grant Application and Payment Request. STERLING successfully obtained design variances from the NYSDEC eliminating the gas vent layer of the final cover while also obtaining a \$550,000 grant reimbursement from the NYSDEC. STERLING currently conducts monitoring well sampling and explosive gas surveys, analyzes the results and submits a progress report to the NYSDEC on an annual basis.

TOWN OF NISKAYUNA LANDFILL, Niskayuna, New York

STERLING conducted monitoring well sampling and explosive gas surveys, analyzed the results and submitted a progress report to the Town on an annual basis.

TOWN OF PATTERSON, Patterson, New York

Landfill Closure Plan, cover system design, plans and specifications, construction supervision and post-closure monitoring. STERLING obtained NYSDEC approval for Mandate Relief Variances allowing deletion of the gas vent layer and one-half the thickness of the barrier protection layer of the final cover. STERLING also secured approval for placement of more than 20,000 cubic yards of demolition debris for rough grading purposes. These approvals reduced the actual closure cost by more than 50% of the original estimate. STERLING currently conducts monitoring well sampling and explosive gas surveys, analyzes the results and submits a progress report to the NYSDEC on an annual basis. Additionally, STERLING developed Environmental Quality Review Act (EQBA) Grant Applications as well as assisted the Town in securing a State Revolving Fund (SRF) Low Interest Loan for the landfill closure.

TOWN OF ROTTERDAM, Rotterdam, New York

Conducted an investigation of leachate from the municipal solid waste landfill and evaluated alternatives for mitigation of impacts to groundwater, design onsite leachate treatment system.

TOWN OF SHAWANGUNK, Wallkill, New York

Landfill Closure Plan, cover system design, plans and specifications for the Town landfill. STERLING developed an application resulting in the Town receiving a SRF Low Interest Loan for the landfill closure. STERLING currently conducts monitoring well sampling and explosive gas surveys, analyzes the results and submits a progress report to the NYSDEC on an annual basis.

TOWN OF SOUTHEAST LANDFILL, Brewster, New York

Landfill Closure Plan, cover system design, plans and specifications for the Town landfill. STERLING developed an application resulting in the Town receiving a SRF Low Interest Loan for the Landfill Closure. STERLING currently conducts monitoring well sampling and explosive gas surveys, analyzes the results and submits a progress report to the NYSDEC on an annual basis.

NATURAL RESOURCE SERVICES

MARIAVILLE PEAT COMPANY, Duanesburg, New York

Performed wetland delineation, wetland functional assessment, wildlife inventory and wetland mitigation plan for USACOE regulatory compliance. Compiled supporting documentation for USACOE no jurisdiction under the Clean Water Act - Tulloch ruling.

RYAN FELTZ PROPERTY, Purling, New York

Performed a wetland delineation and developed a Stream/Wetland Restoration Plan to comply with State and Federal regulations and an enforcement case.

B. MILLENS SONS, INC., Ulster, New York

Conducted a wetland delineation of a thirty-nine (39) acre site. Compiled supporting documentation for an Ecological Assessment Report, including assessment of wildlife, wildlife habitat and potential endangered and threatened species and their habitats.

RIFENBURG CONSTRUCTION, INC., Ballston Spa and Malta, New York

Performed wetland delineations and assessment of a disturbed wetland area to address a State/Federal enforcement action. Created Wetland Restoration Plans for disturbed wetland and fill disposal areas. Monitored wetland restoration construction and performed post wetland restoration monitoring.

RIFENBURG CONSTRUCTION, INC., Upstate New York

Developed SWPPPs and applied for stormwater permits for the operation and closure of fill disposal areas associated with transportation projects. Performed fill disposal area site reconnaissance to evaluate site feasibility including the presence of wetlands, streams and threatened/endangered species. Also completed the termination of stormwater permits.

TAYLOR HOLDINGS GROUP, LTD, Montgomery, New York

Assisted with an Environmental Impact Statement (EIS) for a biomass gasification project. This included review and revisions to the ecological and water resources and impacts sections of the EIS. Compiled supporting documentation for a USACOE Jurisdictional Determination and Nationwide Permit and NYSDEC water quality certification.

AIR SERVICES & INDOOR AIR QUALITY SAMPLING

Emissions Assessments

AMERICAN CANDLE, Saugerties, New York

Performed an evaluation of air discharges and industrial activities to satisfy an inquiry by the NYSDEC.

BALL CORPORATION, Middletown, New York

Performed an emissions mass balance evaluation and calculation including volumetric flow rate measurements at all emission points for Title V permitting.

BEECHER POTTERY, Town of Jewett, New York

Inspected and reviewed the operating parameters of an artist's kiln and prepared a briefing letter to obtain local approvals.

J&J LOG AND LUMBER CORPORATION, Dover Plains, New York

Obtained an Article 19 Air State Facility Permit for a wood boiler and a diesel electric generator.

Indoor Air Quality Sampling and Mitigation

APPLE VALLEY SHOPPING PLAZA, Poughkeepsie, New York

Sampled and assessed soil vapor impacts. Designed a Soil Vapor Mitigation Plan and a HASP for use during site improvements.

BUSINESS OFFICES, Albany, New York

Conducted mycological sampling in various business offices. Air samples were collected using an Aerotech 6™ Viable Microbial Particle Sampler and an Air-O-Cell™. Surface samples were collected using a swab. Data was analyzed and a report with recommendations was completed. Monitoring post-remediation was also produced.

CITY OF TROY POLICE SPECIAL OPERATIONS, Troy, New York

Monitored interior of office and seized vehicle storage building for the presence of toxic and explosive landfill gases.

ELMIRA CITY SCHOOL DISTRICT, Elmira, New York

Conducted soil sampling in the area of a planned building addition. Prepared Soil Vapor Mitigation Design (SVMD) Plan, Soil Management Plan (SMP), Indoor Air Quality Action Plan (IAQAP), Health and Safety Plan (HASP) and Community Air Monitoring Plan (CAMP) in support of bidding for construction of addition and proper management of existing building and grounds.

Designed and inspected installation of sub-slab depressurization systems for new addition to high school and renovated gymnasium. Collects sub-slab vapor and indoor air samples on an annual basis as required by the NYSDOH.

RESIDENCE, Rotterdam, New York

Pesticide sampling was conducted at a residential building to determine the extent of pesticide misapplication. Interpreted sampling results and modified the remedial effort in the Health & Safety Plan and interior air monitoring plan. Interpretation of air monitoring during and post-remediation was provided.

Landfill Gas Monitoring

6 NYCRR 360 Post-Closure Gas Monitoring – Conduct sub-surface explosive gas surveys at landfill perimeters and onsite structures to document if gases are migrating off landfill properties.

ENVIRONMENTAL SITE ASSESSMENTS

Phase I ESAs

STERLING performs environmental site assessments (ESAs) using American Society for Testing and Materials (ASTM) Standard E1527-2005 for All Appropriate Inquiry (AAI), the industry standard for performance of environmental due diligence typically required by lenders and regulatory agencies. Phase I ESAs are typically conducted to evaluate the potential for release of hazardous substances or petroleum products, and to identify “recognized environmental conditions.”

A Phase I ESA under this method consists of:

- Reviewing governmental records (tax maps, building permits, zoning approvals) and databases (environmental permits, spill reports, remedial actions)
- Reviewing available literature (prior reports, permit records), aerial photographs and available mapping (e.g., topographic and fire insurance maps)
- Interviews with government officials and other parties knowledgeable of the property and its history (current and past owners/occupants)
- Conducting site inspection (including building interior, exterior, and observations of adjacent properties)
- Report preparation

STERLING performs Phase I ESAs for a wide variety of clients, such as parties conducting pre-acquisition due diligence on multiple properties, individuals and small companies interested in buying a property, attorneys assisting clients, small and large companies wanting to assess their own property before initiating the sales process, and developers needing to control risk prior to a major investment. STERLING is experienced in transitioning from the Phase I ESA process to subsequent steps while assisting clients in their specific needs.

Phase II ESAs

Phase II ESAs generally consist of a more extensive investigation into identified environmental conditions. The objective of a Phase II ESA is to evaluate the environmental condition in order to provide sufficient information regarding the nature and extent of contamination to allow informed business decisions.

A Phase II ESA may include:

- Environmental sampling (soil, groundwater, surface water, soil vapor)
- Geophysical surveys (radar, magnetometer)
- Test pits and/or trenches
- Dye tracing

STERLING has designed and completed Phase II investigations on many properties with a wide range of histories including locations of former or active:

- Spills of petroleum, hazardous chemicals or pesticides;
- Petroleum or chemical tanks;

- Fuel stations;
- Factories;
- Dry cleaners;
- Container storage areas;
- Floor drains;
- Landfills;
- Pesticide storage or application;
- Solid waste storage; and
- Waste collection floor sumps.

STERLING has been involved in negotiations between buyers and sellers regarding cleanups where environmental conditions have been identified.

Phase III ESAs

Phase III efforts involve remediation or mitigation of sites impacted by petroleum or hazardous substances. STERLING has utilized its expertise to design and gain NYSDEC approval for remedial or mitigating work plans, to obtain competent contractors, to supervise the work effort and conduct and report upon the confirmatory sampling.

SITE DEVELOPMENT AND BROWNFIELDS

FORMER CIRCLE M WOOD TREATING SITE, Fishkill, New York

Conducted a Focused Remedial Investigation and Feasibility Study of the former Circle M Wood Treating Site located in Fishkill, New York under the Brownfield Cleanup Program. Performed supplemental investigations and completed a Remedial Design & Engineering Report, which set forth the engineering design for the chosen remedy. The remedy consists of excavation and consolidation of contaminated soil, and will be conducted in accordance with redevelopment plans for the site. The Remedial Design & Engineering Report includes a Storm Water Pollution Prevention Plan, Health and Safety Plan, Community Air Monitoring Plan, Dust Control Plan, and Site Management Plan.

CONSOLIDATED IRON, Newburgh, New York

Assisted environmental/municipal legal counsel and City Manager with review and comment on USEPA Feasibility Study, preferred alternative and draft Record of Decision. Assisted in negotiations with multiple Potentially Responsible Parties (PRPs) working towards consensus. Assisted in negotiations with USEPA Region 2 on alternative comparison and an apportionment of responsibility for financial contribution from PRPs. Participated in public participation by making presentations at public meetings and hearings, as well as responding to questions from the public. Participated in advising development team on transitioning from post-cleanup to development of site, including technical considerations, interfacing with surrounding land use and maintenance of post-closure care and deed restrictions.

SOUTH TROY PILOT BROWNFIELDS ASSESSMENT, South Troy, New York

A United States Environmental Protection Agency (USEPA) funded Environmental Assessment for the City of Troy of 56 parcels along the Hudson River as part of a comprehensive brownfields effort involving public and community outreach and participation. Involved a team including River Street Planning and Development and Transportation Concepts. Led to further USEPA funding of a Phase II Environmental Assessment of these parcels, including field sampling and analysis.

HILLS HOLDING CORPORATION C&D LANDFILL, Fallsburg, New York

A Remedial Investigation (RI) was conducted at the Hills Holding Corporation Construction and Demolition (C&D) Debris Landfill (Landfill) by STERLING from February to April 2007. The site abuts the Town's drinking water supply wellfield. The purpose of the RI was to characterize the Landfill waste, identify the physical extent of the waste mass boundary, and determine the nature and extent of contamination at and in the vicinity of the site. In addition, the information presented in the RI was also used to assess the need for remedial action(s). This site is an Environmental Restoration Project (ERP) that was funded under the ERP of the New York State Clean Water/Clean Air Bond Act.

FORMER M. ARGUESO AND COMPANY, INC., Mamaroneck, NY

Conducted groundwater monitoring and confirmatory soil sampling for tank excavations as part of a Brownfields Cleanup Program investigation. Sampling methods followed NYSDEC DER-10 / Technical Guidance for Site Investigation and Remediation. Implemented an Excavation Work Plan, Citizens Participation Plan, Community Air Monitoring Plan (CAMP) and Health and Safety Plan (HASP) for the project. STERLING conducted the CAMP during excavating and truck loading activities, following guidelines provided in the NYSDOH Generic CAMP. STERLING ensured compliance with the HASP by monitoring workers' breathing space air quality.

FORMER EXXON TERMINAL, Pelham Manor, New York

Performed a Phase I Environmental Site Assessment at a former oil storage facility. Negotiated with former owner and NYSDEC regarding cleanup requirements and development options and limitations. Oversaw performance of investigations and remedial work.

PALISADES CENTER MALL, Nyack, New York

Environmental permitting and impact analysis, design and construction oversight for a large mall development project. Included landfill closure, petroleum spill remediation, installation of a leachate collection system, environmental monitoring, research leachate production rates and mitigate leachate discharge to sanitary sewer.

RENSSELAER IDA, Rensselaer, New York

Reviewed previous investigations and site assessments at the Rensselaer Cogeneration Facility. Made recommendations regarding previous work and further remedial work necessary.

APPLE VALLEY SHOPPING PLAZA, LaGrange, New York

Designed a groundwater treatment system, which included installing recovery wells and an air stripper for volatile organic compounds at a shopping plaza in LaGrange, New York. Completed a Design Engineering Report for air emissions treatment and a Remedial Design Investigation to evaluate the existing groundwater treatment system.

PETROLEUM SITE REMEDIATION, PETROLEUM AND CHEMICAL STORAGE TANKS AND SPILLS

Petroleum Site Remediation

CAROUSEL CENTER, Syracuse, New York

Environmental evaluations of Oil City in City of Syracuse in support of proposed expansion of Carousel Center Mall. STERLING's evaluation included remedial cost estimates for addressing extensive petroleum contamination of soil and groundwater.

FORMER MOBIL TERMINAL, Mt. Vernon, New York

Performed Phase I and Phase II Environmental Site Assessments of a former major oil storage facility. Participated in negotiations with regulatory agencies and former owner regarding remediation and development of property. Performed remedial investigations and oversaw remedial work at the site.

MEISNER AUTO PARTS, Colonie, New York

Remedial investigation and management of an automotive recycling facility. Services included remediation of spilled used oil, gasoline, and automotive coolant. STERLING also arranged for the removal of several underground storage tanks and associated impacted soil.

PALISADES CENTER MALL, Nyack, New York

During the design and construction for a large mall development project, several petroleum storage facilities were closed and remediated when necessary. One facility required the installation of a groundwater interceptor and treatment by an oil/water separator prior to discharge of the treated flow to a local sanitary wastewater treatment system.

PEPSI-COLA / ALLIED BOTTLERS, INC., Syracuse, Rochester, Binghamton, New York
Environmental site investigation and evaluation of petroleum spill sites.

Petroleum Storage Tanks and Spills

A. SERVIDONE CONSTRUCTION, Castleton, New York

Supervised a tank closure and spill investigation. Prepared a SPCC Plan for several tanks for this major construction firm.

ALLIED WASTE SERVICES, Latham and Schenectady, New York

Prepared a Spill Prevention, Control & Countermeasure (SPCC) Plan for several tanks for a truck maintenance facility, transfer stations, and recycling facilities.

AMERICAN ALTERNATIVE ENERGY, Mount Vernon, New York

Obtained a 6 NYCRR Part 360 Permit for a Biodiesel Recycling Transfer Facility. Prepared an Engineering Report, Contingency Plan, Full Environmental Site Assessment, Operations and Maintenance Manual and a No Exposure Certification for Exclusion from SPDES Stormwater Permitting.

AUTOZONE, Newburgh, NY

Closed seven (7) underground storage tanks and two (2) aboveground storage tanks and remediated an involved spill to assist with a real estate transaction.

CENTRAL HUDSON, Mid-Hudson Valley, New York

Prepared Spill Prevention, Control & Countermeasure (SPCC) Plans for substations, transformer areas and headquarters.

EAST KINGSTON FORMER BRICKYARD TANKS, East Kingston, NY

Prepared and implemented a Tank Closure Work Plan for closure of a 15,000 gallon tank and a 281,000 gallon tank containing No. 6 Fuel Oil, including remediation of releases from both tanks into the site soils.

ENVIRO-WASTE OIL RECOVERY, INC., Mahopac, NY

Obtained a 6 NYCRR Part 360 Permit for a Used Oil Recycling Transfer Facility. Prepared an Engineering Report, Operations and Maintenance Manual, Spill Prevention Report, Closure Plan, Contingency Plan, and SEQR documents.

FINCH PAPER, Glens Falls, NY

A Spill Prevention Report was prepared for 22 tanks containing various chemicals regulated under 6 NYCRR 595, 596, 598 and 599.

LANGAN MOTOR CAR, Colonie, NY

A tank removal and an Underground Injection Control (UIC) well closure were planned and accomplished in support of a real estate transaction.

RAY'S TRANSPORTATION, New Windsor, New York

Prepared a SPCC Plan for several petroleum tanks. Updated registrations.

REVERE SMELTING CORP., Middletown, New York

Prepared a comprehensive spill plan for seven (7) petroleum storage tanks and six (6) hazardous substance tanks that met both the requirements for 6 NYCRR Parts 598, 612, 613 and 614, and 40 CFR 112.

SEAGROATT FLORAL, Albany, New York

Supervised the closure of a gasoline and a fuel oil tank, including the preparation of a spill report that achieved a spill closure letter from the NYSDEC.

ULSTER COUNTY RESOURCE RECOVERY AGENCY, Kingston, NY

Prepared a Spill Prevention, Control and Countermeasure (SPCC) Plan for ten (10) aboveground storage tanks. Prepared a design for and supervised the construction of a secondary containment system for a Fuel Depot containing a 2,000 gallon and a 15,000 gallon aboveground storage tank.

MINING

FINNE/MULLER PROPERTY, Town of Union Vale, NY

Mine Reclamation Plan for sand and gravel mine.

ROUTE 82 SAND AND GRAVEL CO., INC., Millbrook, NY

Mine Permit Renewal and Modification to extend life of mine and provide for mining below the groundwater table. Modification included evaluation of environmental impacts including groundwater quality, noise and visual.

STEEL STYLE, Newburgh, New York
Initial mining application for sand and gravel mine.

WRIGHT FARMS INC. SAND & GRAVEL MINE, Town of Plattekill, New York
Town Site Plan/Special Use Permit Application. Mined Land Use Plan and Mining Permit Application.

PALLETTE STONE CORPORATION, Saratoga Springs, NY
Renewal of Mining Permit.

GEDNEY HILL MINE, NY
Mine Permit Renewal.

NYS ROUTE 208 MINE SITE, Town of Blooming Grove, NY
Mine Permit Renewal.

SOUTHERN COLUMBIA SAND & GRAVEL, NY
Mine Permit Renewal.

LARRY SHIELL EXCAVATING CONTROLS & SANITARY SERVICES, Schroon Lake, NY
Mine Permit Renewal.

CASELLA WASTE MANAGEMENT, Clinton County, NY
Mined Land Use Plan- Adcock Mine

RESIDUAL MATERIALS MANAGEMENT AND BENEFICIAL USE

STERLING recognizes that waste materials often have potential as marketable commodities and can be utilized beneficially. STERLING often develops solid waste management solutions that create significant value for clients by utilizing solid waste as a construction material or as a substitute for a raw material. STERLING has successfully identified beneficial construction applications for certain waste materials resulting in material becoming an asset rather than a liability requiring disposal at a permitted facility. STERLING has also developed landfill construction, operational and closure programs that utilize solid waste as cover materials, thus avoiding the need to purchase earth materials at prevailing market prices.

STERLING routinely utilizes the following materials in landfill closure or general construction projects:

- Construction Surplus Soil
- Stone
- Wood Chips
- Plaster
- Brick
- Pavement
- Coal Ash
- Class 1 Compost
- Crushed Glass
- C&D
- CKD
- Masonry Products
- Rock Dust
- Concrete
- Clinker
- Clearing & Grubbing Materials
- Wood
- Roofing Materials
- Dewatered Sewage Sludge/Soil Mixture
- Foundry Sand

IROQUOIS FOUNDRY, Waverly, NY

Developed a beneficial use petition for Iroquois' foundry sand seeking to utilize foundry sand for various clean fill applications.

KILBY BROTHERS, INC., Albany NY

Landfill project utilized glass cullet for gas venting and grading material.

STEEL STYLE, Newburgh, New York

Assisted in the management of regulated solid waste including dredge spoil.

TAYLOR RECYCLING FACILITY, LLC, Montgomery, NY

Utilized processed C&D as grading material, fill, and erosion control mulch in several landfill closures.

TOWN OF SOUTHEAST LANDFILL, Brewster, NY

C&D debris as erosion control mulch and intermediate cover material.

Coal ash was utilized as landfill grading material for the following projects:

CENTRAL HUDSON GAS & ELECTRIC, Danskammer, NY

TOWN OF SHAWANGUNK LANDFILL, Ulster County, NY

FICA LANDFILL, Dutchess County, NY

C&D was utilized as landfill grading material for the following projects:

BOLA LANDFILL, Town of Whitehall, Washington County, NY

ROTTERDAM LANDFILL, Schenectady County, NY

SARATOGA STATE PARK LANDFILL, Saratoga County, NY

SCHUYLER FALLS LANDFILL, Clinton County, NY

TOWN OF BETHEL LANDFILL, Sullivan County, NY

TOWN OF ESOPUS LANDFILL, Ulster County, NY

TOWN OF FALLSBURG LANDFILL, Sullivan County, NY

TOWN OF MONROE LANDFILL, Monroe, NY

TOWN OF NORTHEAST, Dutchess County, NY

TOWN OF PATTERSON, Putnam County, NY

TOWN OF RHINEBECK, Dutchess County, NY

TOWN OF SHAWANGUNK LANDFILL, Ulster County, NY

TOWN OF WALLKILL LANDFILL, Orange County, NY

EXPERT TESTIMONY, LITIGATION SUPPORT, MERGERS & ACQUISITIONS

Expert Testimony / Litigation Support

BARNES LANDFILL

Conducted independent evaluations of the Barnes Landfill and provided a detailed deposition regarding the landfill closure costs, as well as professional opinion regarding the adequacy of the closure landfill (*Industrial Recycling Services, Inc. vs. Ahneman Associates, P.C.*).

CITY OF KINGSTON, New York

Served as an expert witness representing the City of Kingston, New York in litigation concerning contract disputes involving the City landfill.

FICA LANDFILL, Poughkeepsie, New York

Provided technical support and professional opinion during depositions in connection with the New York State Department of Law search for the PRP's associated with the FICA Landfill matter in Poughkeepsie (*State of New York v. J&T Recycling, Inc., et. al.*).

FT. CRAILO APPLICATION OF BESICORP-EMPIRE DEVELOPMENT COMPANY,

Rensselaer County, New York

Provided Expert Report regarding quality of life impacts to the Ft. Crailo Neighborhood.

FRESHKILLS LANDFILL, Staten Island, New York

Served as technical advisor to the Special Master concerning the Citizens' Lawsuit regarding the Freshkills Landfill. This effort included giving a formal deposition and professional opinion regarding the landfill operational and closure requirements of 6 NYCRR 360 and assisting the Special Master during the deposition of other factual witnesses and technical experts (*Joseph P. Woods, Staten Island Citizens For Clean Air, Inc., and Anthony Cantalupo, Plaintiffs, v. The City of New York, Edward I. Koch and Brendan Sexton, Defendants*).

GRAFTON QUARRY

Provided testimony at adjudicatory hearing for the proposed Grafton Quarry permit modification.

GUARDIAN SELF STORAGE, INC., Saugerties, New York

Expert review and testimony regarding litigation concerning a Storm Water Pollution Prevention Plan and facility design.

HARTT v. SCHRULL, Worcester, New York

Provided expert report concerning responsibility of damage caused by the illegal fill placement in navigable waters by Mr. Adolph Schrull.

HOOSICK MINE SITE

Served as an expert witness during an adjudicatory hearing concerning the William E. Dailey, Hoosick Mine Site concerning storm water issues for a proposed limestone quarry.

ISLIP (BLYDENBURGH) LANDFILL

Retained by Estee Lauder, Inc. and Muller Martini Corp to provide expert services regarding cleanup liability and responsibility for inactive hazardous waste landfill.

KAREN GREEN VS. ASTRAZENECA, INC., ET.AL., Auburn, New York

PRAP review and comment, and Expert Report regarding inactive hazardous waste site.

KEENE VALLEY, Keene Valley, New York

Expert testimony and evaluations for a petroleum spill.

MONTGOMERY LITIGATION

Expert Report regarding salt contamination of Town of Montgomery municipal well field.

PAY-LESS OIL CORPORATION, Poughkeepsie, New York

Expert report regarding oil spill matter.

PELHAM BAY LANDFILL

Technical advisor to the Special Master concerning the Citizens' Lawsuit regarding the Pelham Bay Landfill matter (*New York Coastal Fishermans' Assn' v. New York City Department of Sanitation, et.al.*). The technical facilitator among the parties including New York City Department of Environmental Protection (NYSDEP), NYS Department of Sanitation, New York State Department of Environmental Conservation (NYSDEC) and the Technical Advisory Committee.

RODMAN'S NECK REMEDIATION

Provided expert technical advice and evaluation to the plaintiff regarding the investigation and remediation of Rodman's Neck, a target range operated by the New York City Police Department (*Rodman's Neck Remediation*). Advised Plaintiff's attorneys regarding technical and engineering matters.

SADOWSKI v. TAYLOR, Malta, New York

Provided an affidavit, in opposition to Defendants' Motion for an Injunction, to demonstrate that Defendants can utilize existing curb cuts for alternate driveway configuration avoiding the need to cross Plaintiff's land. Provided expert report and graphics in support.

ST. VOLODYMYR UKRANIAN CHURCH, Utica, New York

Provided litigation support and expert testimony concerning oil spill adjacent to a church. Installed monitoring wells in support of litigation effort, and conducted quarterly sampling to determine levels of contamination migrating onto church property.

SENECA MEADOWS LANDFILL, Waterloo, New York

Served as an expert witness during an adjudicatory hearing concerning the proposed expansion of the Seneca Meadows Landfill.

SOUTHERN RAILROAD V. VILLAGE OF CROTON-ON-HUDSON

Provided expert testimony with respect to litigation concerning the facility solid waste management permit.

TOWN OF DOVER TOWN BOARD VS. TEN MILE RIVER, LLC, Dover New York

Completed an environmental review of pertinent data and reports related to the property known Ten Mile River located in the Town of Dover, New York.

TOWN OF ELLENVILLE, Ellenville, New York

Reviewed the Administrative Record concerning a scrap yard and history of action taken by local authorities and the NYSDEC. Provided expert report concerning cleanup responsibility.

TOWN OF MONTGOMERY, Montgomery, New York

Provided expert evaluation, investigation and opinion regarding salt contamination of the Town's municipal drinking water supply.

Mergers & Acquisitions

CHEMUNG LANDFILL & MATERIALS RECYCLING FACILITY, Elmira, New York
STERLING outlined the compliance status of the existing stormwater discharge from the Chemung Landfill, and prepared a SWPPP and SPCC Plan for the facility. In addition, STERLING performed a tank inspection and prepared the tank registration.

CLINTON COUNTY LANDFILL & TRANSFER STATIONS, Plattsburgh, New York
STERLING conducted and/or supervised baseline environmental studies, prepared a Draft Environmental Impact Statement (DEIS) and prepared the Long Term Development Plan associated with a major expansion of the Clinton County Landfill near Plattsburgh, New York. The DEIS carefully evaluated the existing environmental condition of the facility and its environs and assessed the potential environmental impacts to surface water, groundwater, visual resources and community character. Pre-expansion baseline conditions were defined for noise, dust, traffic and future impacts were modeled using industry-accepted methodology. STERLING conducted or supervised all supplemental field activities, data collection and reporting, and was fully responsible for the production of the DEIS document (a document that measures 15” in thickness).

STERLING’s work product also served as the primary submittal to the Federal Energy Regulatory Commission (FERC) for related environmental approvals needed for the land transfer necessary for the landfill expansion project.

This multi-year role by STERLING was integral to New England Waste Services (NEWSNY’s) and Clinton County’s receipt of a permit from the NYSDEC and approvals from FERC for the initial phase of the project. The SEQRA compliance efforts by STERLING and the project team are expected to satisfy additional permitting needs for the next 50 years.

HAKES C&D DEBRIS LANDFILL, Steuben County, New York

STERLING prepared a Long Term Development Plan for New England Waste Services of NY, Inc.

ONTARIO COUNTY LANDFILL

STERLING conducted various due diligence and Phase I Environmental Site Assessments.

KTI/CASELLA MERGER

STERLING performed environmental due diligence on 40 sites, which were the subject of Casella’s acquisition of KTI. Sites were located in the states of Maine, Massachusetts, Connecticut, New Jersey, Pennsylvania, Virginia, Maryland, North Carolina, South Carolina, Georgia, Florida, Texas, Michigan, Ohio, Illinois, Oregon and Arizona.

WASTE STREAM/CASELLA MERGER

STERLING performed environmental due diligence of 14 properties in update New York, which were the subject of Casella’s acquisitions of Waste Stream, Inc. STERLING performed environmental due diligence for permitted solid waste management facilities which were the subject of acquisition by Casella Waste Management.

KEY PROFESSIONAL STAFF

Mark P. Millspaugh, P.E., President, a licensed Professional Engineer in the States of New York, Vermont, Pennsylvania and New Hampshire, and President of STERLING, with 40 years of experience in the fields of solid and hazardous waste management, remediation and redevelopment, environmental compliance and permitting, covering land, water and air resources. Mr. Millspaugh is also well versed with the State Environmental Quality Review Act (SEQRA) and associated environmental baseline studies, impact analysis and design of mitigation strategies. Mr. Millspaugh has served as an expert during permit adjudication before permitting agencies and with respect to litigation brought by challengers. Mr. Millspaugh has a Bachelor and Master of Science Degree in Environmental Engineering from Rensselaer Polytechnic Institute.

Rodney L. Aldrich, P.E., Director of Compliance, is a licensed Professional Engineer in New York State with nearly 40 years of experience in solid and hazardous waste management, permitting, due diligence investigation and remediation of contaminated sites, water discharges, and pesticides compliance. Mr. Aldrich has a Master of Science Degree in Engineering and Environmental Engineering from Rensselaer Polytechnic Institute and a Bachelor of Science in Civil Engineering from Union College.

Thomas M. Johnson, C.P.G., Senior Hydrogeologist, is a Certified Professional Geologist with the American Institute of Professional Geologists, a licensed Professional Geologist in the states of New York and Washington State and is a former President of the Hudson Mohawk Professional Geologist's Association. Mr. Johnson has 39 years of experience in the Federal and State-equivalent CERCLA and RCRA programs and has provided expert opinions and testimony on technical topics related to hazardous waste and petroleum contamination. His career has focused on geology, hydrogeology and environmental restoration serving industrial, commercial, mining, water supply, energy and property acquisition sector clients. Mr. Johnson's expertise includes client and regulatory liaison, project planning and management, data collection and analysis, site characterization, regulatory negotiation, permitting, litigation support and expert testimony. Mr. Johnson has a Bachelor of Science Degree in Geology from the State University of New York in Cortland and a Master of Science Degree in Geology, State University of New York in Fredonia.

Mark A. Williams, P.G., Associate Geologist, is a licensed Professional Geologist in the states of New York and Pennsylvania with more than 27 years of experience. Mr. Williams' is experienced in site characterization, permitting, regulatory compliance, environmental restoration, environmental site assessment, subsurface remedial and geotechnical investigation, and groundwater resource exploration and development. He is also a former President of the Hudson-Mohawk Professional Geologists Association and currently serves on the Board of Directors for the New York State Council of Professional Geologists. Mr. Williams has a Bachelor of Science Degree in Geology from East Carolina University.

Jennifer C. DiCerbo, P.E., Senior Environmental Engineer, is a licensed Professional Engineer in New York State with more than 25 years of experience in Brownfield investigation and remediation, environmental permitting, environmental impact assessment, monitoring, construction oversight, environmental litigation, site investigations and remedial actions. Ms. DiCerbo has a Bachelor of Science in Civil Engineering from Union College and a Master of Science Degree in Environmental Engineering from Rensselaer Polytechnic Institute.

Andrew M. Millspaugh, P.E., Senior Environmental Engineer, a licensed Professional Engineer in the States of New York, Wisconsin, and Minnesota with over 8 years of experience in the fields of environmental consulting, including site investigations, design and specifications, field engineering, construction oversight, field sampling methods, sediment management, in situ solidification/stabilization, and project quality assurance. Mr. Millspaugh has a Bachelor's Degree in Environmental Engineer from the University of Delaware and a Master of Science Degree in Civil/Environmental Engineering from the University of Wisconsin – Madison.

Beverly A. Commerford, Operations Manager for STERLING for 20 years, is experienced in the management of STERLING's overall operations. Ms. Commerford also assists with litigation support, FOIL review, and preparation of Environmental Quality Bond Act (EQBA) Grant Applications and Reimbursements and Clean Water State Revolving Fund (CWSRF) Loans. Ms. Commerford is a key contributor to the overall quality of all STERLING's project deliverables and oversees staff and project deadlines. Ms. Commerford is also a Licensed Notary Public.

STERLING's experienced Environmental Professionals undertake Phase I and II environmental site assessments, storm water pollution prevention plans, underground storage tank closures, spills response, construction inspections and environmental sampling/monitoring. STERLING's staff perform site investigations, develop remedial programs and oversee construction activity routinely addressing contaminated soil, groundwater, and surface water. Staff are also experienced in performing soil-vapor intrusion and explosive gas surveys, litigation support, and managing the State Environmental Quality Review (SEQR) process.

Resumes are available upon request.

ASSOCIATES

Solid and hazardous waste management services, new facility permitting efforts, brownfields development and matters under litigation, often require specialty services such as archeological evaluations, wetland and significant habitat identification, visual impact analysis, noise and traffic studies, and geotechnical engineering. STERLING has developed professional working relationships with experts in these various fields. The STERLING team is well versed at preparing facility design, permit applications and associated Environmental Impact Statements. Team members are also called upon to serve as expert witnesses.

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