STATEMENT OF QUALIFICATIONS

Request for Qualifications

ENGINEERING SERVICES
SEWER SYSTEM EXTENSION SURVEY

PREPARED FOR:

TOWN OF AMSTERDAM

February 20, 2023

DELAWARE ENGINEERING, D.P.C

28 MADISON AVENUE EXTENSION | ALBANY, NY

518.423.1290 | DelawareEngineering.com

SECTION I

IN THIS SECTION

Firm Profile

Key Staff

Ability to Meet Time & Budget

DELAWARE ENGINEERING, D.P.C.

FIRM PROFILE

Delaware Engineering, D.P.C. is different from other professional engineering firms. Our deep respect for our clients, community, and colleagues sets us apart. Our achievements in supporting communities and industry through access to grants and low-cost financing also makes us unique.

Our clients are predominantly municipal entities with selected industry in our portfolio as well. We understand that municipal leaders come to government from all walks of life and bring unique perspectives, knowledge and experience that are to be respected and engaged in the process of governing. **The functions of government are complex, and it is our role to provide facts and guidance to municipal decision-makers to ensure that the best interests of the public are achieved.**

With respect to industry, we are keenly aware that infrastructure and regulatory compliance are non-core functions that in some cases distract from operating a successful, profitable business. Our role is to handle non-core infrastructure and regulatory functions so that business leaders can focus on core functions.

Our community is as broad as the locations in which we work. We serve clients in the Capital District, the Adirondack and North County region, the upper and lower Hudson Valley, the Southern Tier and Catskill Mountain regions.

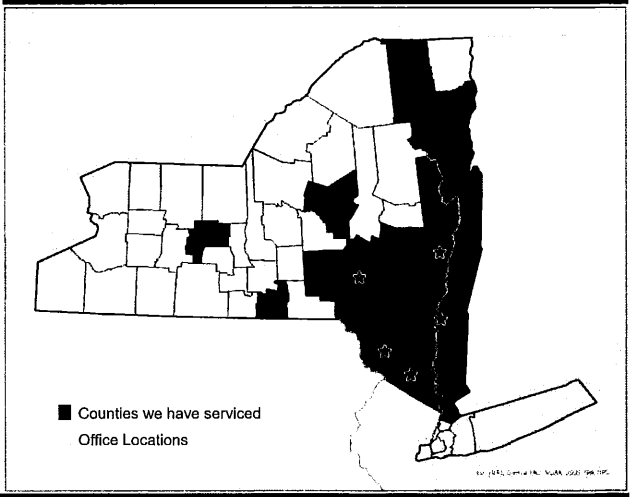
Wherever we are engaged with municipalities or industry, we are engaged with the community. We respect the unique character and nature of each community in developing customized solutions to water, wastewater, stormwater, municipal buildings, structural, special projects and economic development challenges. Because we take the time to get to know each community personally, we treat each person and each project with a commitment and passion as though it is our own hometown.

Originally founded in 1987, **Delaware Engineering, D.P.C.** is a New York State Design Professional Corporation licensed to practice engineering with offices in Albany, Oneonta, Red Hook, Monticello, and Goshen, New York.

PRACTICE AREAS:

Delaware Engineering, DPC provides civil and environmental engineering services in the following areas:

- Potable and Process Water
- Wastewater Collection and Treatment
- Stormwater Management
- Hydraulic Modeling
- Community Planning
- Economic Development Analysis
- Geographic Information Systems
- Environmental Studies
- Permitting and SEQR/NEPA
- Public Infrastructure Grant Writing
- Public and Industrial Buildings
- Construction Engineering and Inspection



OUR OFFICES

28 Madison Avenue Ext.
Albany, NY 12203

55 South Main Street
Oneonta, NY 13820

223 Main Street
Goshen, NY 10924

548 Broadway
Monticello, NY 12701

16 East Market Street
Red Hook, NY 12571

DELAWARE ENGINEERING, D.P.C.

OUR STAFF & CLIENTS

Delaware Engineering, D.P.C. has a diverse and growing client base of institutions, municipalities, and industry. We welcome opportunities to explore new relationships with clients, communities, and colleagues.

REPRESENTATIVE CLIENTS:

INSTITUTIONS:
- Public/Private Universities & Colleges
- County & State Correctional Facilities
- Religious Institutions
- Healthcare Facilities

MUNICIPALITIES:
- Counties, Towns, Cities and Villages
- Industrial & Economic Development Agencies
- Water and Sewer Districts, Agencies, Public Authorities

INDUSTRY:
- Atlas Copco
- International Paper
- General Electric
- Chobani
- IBM
- GlaxoSmithKline

$470
MILLION
IN GRANTS & LOW-COST LOANS SECURED FOR OUR CLIENTS

Our colleagues are the engine that drives our business. Delaware's professional and technical staff of over 70 engineers, scientists, planners, and environmental technicians are each responsible for the well-being of our clients, our communities, and each other.

The engineering and professional staff at Delaware Engineering, D.P.C. have extensive experience as:

- Traditional consultants as an adjunct to clients' engineering/professional staff
- Extension of clients' staff, working at client facilities
- Term agreement managers and engineers for multi-year contracts with corporate and agency clients
- Representatives of clients before federal, state and local agencies

By encouraging personal connection and responsibility between our staff and their project work, clients benefit from the sincere dedication of our staff to a project's success. Our leadership and staff are driven by an enthusiasm to improve the world through everyday successes, and we see the firm's community service contributions as a small way to pay our accomplishments forward.

STAFFING BREAKDOWN

Civil Engineers	**35**
Structural/Mechanical Engineers	**6**
Electrical Engineers	**5**
Planning	**6**
Construction Oversight	**9**
Project Coordination/Administrative	**9**

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WATER:

- Tuxedo Reserve Water System, Town of Tuxedo, Orange County, Project Engineer/Manager
- Saratoga County Water Authority WTP Upgrades, Town of Moreau, Saratoga County, Project Engineer/Manager
- Water Storage, Pumping and Distribution Improvements, Town of Amsterdam, Montgomery County, Project Engineer/Manager
- Town of East Greenbush Joint Water System Improvements, Rensselaer County Water and Sewer Authority, Rensselaer County, Project Engineer
- West End Water District Extension, Town of Guilderland, Albany County, Project Engineer
- APO of Sleepy Hollow Lake Water Treatment and Distribution System, Greene County, Systems Engineer
- Water Distribution Upgrades, Town of Waterford, Saratoga County, Project Manager

WASTEWATER:

- Village of Coxsackie Wastewater Treatment Plant Upgrades, Village of Coxsackie, Greene County, Project Engineer
- Village of Castleton-on-Hudson Wastewater Treatment Plant Upgrades, Village of Castleton-on-Hudson, Rensselaer County , Project Engineer
- APO of Sleepy Hollow Lake Wastewater Treatment Plant Upgrades, Greene County, Project Engineer
- Kent Manor Wastewater Treatment Plant Construction, Town of Kent, Putnam County, Project Engineer/Manager
- Meadows at Deans Corners Wastewater Treatment Plant Construction, Town of Southeast, Putnam County
- Village of Canajoharie Wastewater Treatment Plant Upgrades, Project Engineer, Village of Canajoharie, Montgomery County, Project Engineer/Manager
- Tuxedo Reserve Wastewater Treatment Plant, Town of Tuxedo, Orange County, Project Engineer/Manager
- City of Hudson Wastewater Treatment Plant Upgrades, City of Hudson, Columbia County, Project Engineer/Manager
- Village of Athens Wastewater Treatment Plant Upgrades, Village of Athens, Greene County, Project Engineer/Manager

PROFILE:

Mr. Juusola is a Senior Project Manager with over 15 years of experience in a wide variety of water, wastewater and municipal engineering projects. His experience ranges from serving as the project engineer on a 43 million gallon per day wastewater treatment plant upgrade to dealing with day-to-day construction challenges as a construction inspector. Mr. Juusola's experience in all phases of a project, from planning to design to construction, results in a broad outlook with a balanced and realistic approach. His areas of expertise include water and wastewater process engineering and optimizing and retrofitting existing infrastructure.

EDUCATION:

BS, Civil Engineering, University of Minnesota, 2003

CERTIFICATIONS AND TRAINING:

Licensed Professional Engineer in New York (License #086662-1)

40-hour HAZWOPER Trained (40 CFR 1910.120) and Confined Space certification

PROFESSIONAL AFFILIATIONS:

American Society of Civil Engineers

New York Water Environmental Association

Water Environment Federation

WATER:

- Water Plant Expansion, Saratoga County Water Authority, Senior Project Engineer
- Guilderland/Rotterdam Municipal Water Interconnection, Town of Guilderland, Albany County, Senior Project Engineer
- Fort Hunter Water Tank Rehabilitation, Town of Guilderland, Albany County, Senior Project Engineer
- Water Treatment Plant Wellhead Modification Project, Town of Glenville, Schenectady County, Senior Project Engineer
- Route 50 Pressure Reducing Valve Project, Town of Glenville, Schenectady County, Senior Project Engineer
- Water Storage Facility, Town of East Greenbush, Rensselaer County, Design Engineer
- West End Water Extensions, Town of Guilderland, Albany County, Design Engineer
- Water Treatment Plant Intake Upgrades, Saint Regis Mohawk Tribe, Franklin County, Design Engineer
- Water Treatment Plant Chemical Feed and UV Disinfection Upgrades, Saint Regis Mohawk Tribe, Franklin County, Design Engineer

WASTEWATER:

- Brown's Brewing Wastewater Treatment Plant Relocation, Brown's Brewing Company, Senior Project Engineer
- APO of Sleepy Hollow Lake Wastewater Treatment Upgrades, Greene County, Senior Project Engineer
- Village of Castleton-on-Hudson Wastewater Treatment Plant Upgrades, Village of Castleton-on-Hudson, Rensselaer Count , Project Engineer
- West Kill Brewing Wastewater Pretreatment, West Kill Brewing, Senior Project Engineer
- Wastewater Treatment Plant Upgrades, Town of East Greenbush, Rensselaer County, Project Engineer
- Wastewater Pump Station Upgrades/ Sewer System, Village of Stillwater, Saratoga County, Project Engineer
- New Wastewater Treatment Plant, GSK – Stiefel Labs, Greene County, Design Engineer
- Main Pump Station Upgrade, Saint Regis Mohawk Tribe, Franklin County, Design Engineer
- Saratoga County Sewer District No. 1, Wastewater Treatment Plant Improvements, Town of Halfmoon, Saratoga County, Design Engineer

PROFILE:

Mr. Fogarty is a senior project engineer working in many roles for the successful completion of a wide variety of water, wastewater and municipal engineering projects. His experience ranges from project engineer to construction management. Mr. Fogarty also prepares design calculations, engineering plans, engineering reports, technical specifications and contract documents. He is experienced in all phases of engineering projects, from planning to design to construction.

EDUCATION:

BS, Clarkson University, Civil Engineering with a Concentration in Environmental Engineering, May 2005

CERTIFICATIONS AND TRAINING:

Licensed Professional Engineer in New York (License #096696)

Troxler Certification

WASTEWATER:

- Village of Port Chester Sanitary Sewer I&I Study and Smoke Testing, Project Engineer
- 211 Irving Avenue Culvert Collapse Rehabilitation, Village of Port Chester, Westchester County, Project Engineer
- Glen Avenue Road Emergency Reconstruction, Village of Port Chester, Westchester County, Project Engineer
- Bulkey Drain Rehabilitation, Village of Port Chester, Westchester County, Project Engineer
- WWTP Upgrades, Village of Middleburgh, Schoharie County, New York, Design and Construction Administration,
- WWTP Upgrades, Village of Suffern, Rockland County, New York, Design,
- WWTP Upgrades, Village of Fishkill, Dutchess County, New York, Design,
- 1st Street Pump Station Upgrades, Village of South Glens Falls, Saratoga County, New York, Design and Construction Administration
- 2020 Sewer Improvements, Village of South Glens Falls, Saratoga County, New York, Design and Construction Administration
- Forrest Hills Mobile Home Park WWTP, Saratoga County, New York, Part-time WWTP Operator

WATER:

- Water Tank Rehabilitation, Village of South Glens Falls, Saratoga County, New York, Construction Administration and Inspection,
- Wilson and Haveland Ave Water and Sewer Improvements, Village of South Glens Falls, Saratoga County, New York, Construction Administration and Inspection,
- Water Treatment Plant Upgrades Village of South Glens Falls, Saratoga County, New York, Design,
- Bulkley Drain Box Culvert Rehabilitation, Village of Port Chester, Westchester County, New York, Design and Inspection

PROFILE:

Mr. Mantas has 5 years of experience in municipal wastewater and water treatment projects, land development design, and traffic management planning. Possesses experience in all aspects of client development, planning, design, permitting, bidding, construction observation and inspection, construction administration, and optimization of municipal wastewater treatment facilities.

EDUCATION:

BS, Civil Engineering, Department of Civil Engineering and Surveying & Geoinformatics Engineering, Technological Educational Institute of Athens

CERTIFICATION AND TRAINING:

OSHA 10 HR, Construction

Confined Space Entry, General Industry

WATER:

- Town of East Greenbush Joint Water System Improvements, Rensselaer County Water & Sewer Authority, Electrical Design Engineer
- Village of Coxsackie Water Plant Improvements, Village of Coxsackie, Greene County, Electrical Design Engineer
- Water Storage, Pumping and Distribution Improvements, Town of Amsterdam, New York, Electrical Design Engineer
- Water System Improvements, Town of Monroe, New York, Electrical Design Engineer
- Water Treatment Plant Improvements, City of Norwich, New York, Electrical and SCADA Design Engineer

WASTEWATER:

- North & South Plant Electrical Upgrades, Albany County Sewer District, New York, Electrical Engineer,
- Mechanical Screen Upgrades, Albany County Sewer District, New York, Electrical Design Engineer,
- City of Hudson WWTP Expansion, Hudson, New York, Electrical Design Engineer
- Town of East Greenbush WWTP Upgrades, East Greenbush, New York, Project Manager and Electrical Design Engineer
- Town of Windham, NYCDEP New Infrastructure Program, Wastewater Facilities, Windham and Hensonville, Greene County, Electrical Engineer
- Rensselaer County Pump Station Upgrades, Rensselaer County, New York, Project Manager
- Village of Hunter, NYCDEP New Infrastructure Program, Wastewater Facilities, Hunter, Greene County

MUNICIPAL BUILDINGS:

- New Municipal Complex, Town of Blenheim, Schoharie County, Electrical Engineer
- Town Hall Renovations and New Highway Garage, Fulton Municipal Complex, Schoharie County, Electrical Engineer
- Municipal Offices and Highway Garage, Town of Wawarsing, Ulster County, Electrical Engineer
- New Ambulance Complex, Town of Windham, Greene County, Electrical Engineer
- Saratoga County Storage Building, Saratoga County, Electrical Engineer
- Fire House Addition and Renovations, McKownville, Albany County, Electrical Engineer
- Doubleday Field: New Facility and Complex Improvements, Village of Cooperstown, Otsego County, Electrical Engineer

PROFILE:

Mr. Amrod is a Senior Project Manager who is also responsible for the design of electrical power distribution, HVAC, lighting, and building management systems as well as construction supervision. He assists in the preparation of engineering reports to support construction plan development and prepares permit applications. He also evaluates alternative technologies and prepares engineering cost estimates.

EDUCATION:

BS, Electrical Engineering, Rensselaer Polytechnic Institute

CERTIFICATION AND TRAINING:

Licensed Professional Engineer in New York (License # 095255)

EPA Section 608 Universal Certification

OSHA 10 / Confined Spaces / Excavation & Trenching

ECONOMIC DEVELOPMENT & SPECIAL PROJECTS:

- Asset Management and Capital Planning Project, City of Beacon, Dutchess County, Project Manager
- Oneonta Rail Yards Redevelopment, SEQR/Generic Environmental Impact Statement, City of Oneonta, Otsego County, Wetland Delineation/Technical Writer
- Town of Thompson Park Development, Town of Thompson, Sullivan County, Technical Writer

WASTEWATER:

- Wastewater Treatment Plant Upgrades, Town of Middleburgh, Schoharie County, Permit Application/Grant Writer
- Wastewater System Upgrades, Village of Fishkill, Dutchess County, SEQR Documentation/Permit Application
- Wastewater Permit Application preparation: Village of Suffern, Rockland County, NY
- Sewer District Consolidation, Town of Thompson, Sullivan County, Town of East Greenbush, Rensselaer County

WATER:

- Water District Consolidation, Town of New Baltimore, Greene County
- New Water Tank, Town of Greenville, Greene County, Wetland Delineation and SEQR Documentation
- Water System Improvements, Village of Fishkill, Dutchess County, SEQR Documentation

STORMWATER:

- Stormwater Management Program Plan, Village of Washingtonville, Orange County, Project Manager/Technical Writer
- Stormwater Management Program Plan, Town of Glenville, Schenectady County, Project Manager/Technical Writer
- Outfall Inspections and Stormwater Management Practice Inspections, Town of Glenville, Schenectady County, Project Manager/Field Work

PROFILE:

Ms. Ledder is a Senior Scientist with 30 years of experience in a wide variety of projects. Her experience ranges from water quality monitoring and laboratory analyses, environmental assessment, grant writing and administration, and project management, to public speaking, writing and editing.

At Delaware Engineering, she assists senior engineers and management in many project aspects from SEQR documentation, NEPA review, permit applications, water and sewer rate restructuring and report preparation.

EDUCATION:

Master of Science, Environmental Science and Engineering, Virginia Tech, 1991

Bachelor of Science, Biology, SUNY-Binghamton, 1988

EMPLOYMENT HISTORY:

Delaware Engineering, DPC, Albany, NY: 2018 - Present

NYS DOH, Bureau of Water Supply Protection, Albany, NY: Research Scientist

National Estuarine Research Reserve, Lake Superior, WI: Monitoring Coordinator

Wisconsin Department of Natural Resources, Great Lakes Bureau, Superior, WI: St. Louis River Area of Concern Coordinator

Bad River Tribe Natural Resources Department, Odanah, WI: Water Resources Coordinator

CERTIFICATIONS AND TRAINING:

ASFPM Certified Floodplain Manager

Certification of Erosion and Sediment Control Training

OSHA 10-Hour Construction Safety Training

AFFILIATIONS

Association of State Floodplain Managers

Hudson River Watershed Alliance Board of Directors

WATER:

- Water Treatment Plant Upgrade, Village of Mount Kisco, Westchester County, Construction Manager
- Route 117 Water Line Replacement, Village of Mount Kisco, Westchester County, Construction Manager
- McKownville Water System Improvements Project, Town of Guilderland, NY, Albany County , Construction Manager
- West End Water District Extension, Town of Guilderland, Albany County, Construction Manager
- Water Distribution System Replacement, Village of Hunter, Greene County, Construction Manager
- Water Distribution System Replacement, Village of Fleischmanns, Delaware County, Project Superintendent

WASTEWATER:

- Wastewater System Improvements, Town of Coxsackie, Greene County , Construction Manager
- McKownville Storm Sewer System Improvements, Town of Guilderland, Albany County, Construction Manager
- Wastewater Treatment Plant Upgrades, Town of New Baltimore, Greene County , Construction Manager
- Deans Corners Wastewater Treatment Plant, Town of Southeast, Putnam County, Construction Manager
- Tuxedo Reserve Wastewater Treatment Plant, Town of Tuxedo, Orange County, Construction Manager
- Wastewater Treatment Plant Upgrade, Saratoga County Sewer District #1, Saratoga County, Construction Manager
- Wastewater Treatment Plant Upgrades, City of Hudson, Columbia County, Construction Manager
- Sanitary Sewer Collection System Installation, Village of Fleischmanns, Delaware County, Project Superintendent
- Sanitary Sewer Collection System Installation, Village of Hunter, Greene County, Project Superintendent
- Pump Stations with Force Main Installation, Village of Hunter, Greene County, Project Superintendent
- Sewer District Extension, Town of Greenville, Greene County, Construction Manager

ECONOMIC DEVELOPMENT:

- Town Center Water and Sewer Feasibility Study, Town of Beekman, Dutchess County, Cost Estimator
- Creek Extension Project Study, Village of Canajoharie, Montgomery County, Cost Estimator

SPECIAL PROJECTS:

- Pioneer Street Reconstruction, Village of Cooperstown, Otsego County, Construction Manager

PROFILE:

With over 30 years of combined field and office experience in the construction of major infrastructure projects in New York State, Mr. DelVillano is engaged in the planning, design, estimating and construction supervision of potable water distribution and wastewater collection system projects. His background in construction management, cost control, safety and record keeping are employed to ensure that projects are designed with constructability in mind from the inception.

Prior to joining Delaware Engineering in 2006, Mr. DelVillano worked as Project Superintendent for 16 years throughout the Southern Tier and upstate New York, overseeing multi-million-dollar infrastructure construction projects, each of which was completed under budget, and either on time or early.

EDUCATION:

A.A.S. – Data Processing and Civil Engineering, Broome County Community College, Binghamton, New York, 1980

ABILITY TO MEET TIME & BUDGET REQUIREMENTS

Our colleagues are the engine that drives our business. Our professional and technical staff of approximately 70 engineers, scientists, planners, and technicians are each responsible for the well-being of our clients, our communities, and each other. All members of the DE Team have comprehensive knowledge and experience to satisfy the requirements to provide the Town of Amsterdam with professional engineering services pertaining to the preparation of a Preliminary Engineering Report for the Sewer System Extension Study. The Project Manager assigned to the Town will be with the project from the beginning through the end of the contract.

As you have experienced with our involvement with the Town of Amsterdam, we take pride in being able to deliver superior engineering and municipal support on time and within budget. Our approach is to follow the lead of the municipal officials and representatives with respect to our assignments, participation in projects and meetings, etc. We do not presume that we have a role in any activity, task, or project unless engaged by the municipality.

Importantly, we encourage contact with our references and detailed inquiry into the quality of our work which is the best measure of the match between our team and the needs of the Town of Amsterdam with respect to the Sewer System Extension Study.

Our dedication to our clients ensures that personnel in the project team are available and ready to begin work immediately upon award, and will do so throughout the term of the contract. If unforeseen obstacles occur, personnel can be replaced or supplemented by other qualified personnel from our Oneonta or Albany offices to maintain the level of professionalism that Delaware Engineering is known for.

SECTION II

IN THIS SECTION

Grant & Loan Experience

LOW-COST FINANCING AND GRANT PROCUREMENT

As a professional engineering firm engaged in municipal engineering services for over 30 years, Delaware Engineering D.P.C. has extensive experience in successfully assisting dozens of municipalities in securing hundreds of millions of dollars in low-cost borrowing and grant funds. With our focus on municipal infrastructure, our area of expertise lies particularly in securing low-cost financing and grants from the **NYS Environmental Facility Corporation's (NYSEFC)** through the State Revolving Funds (SRF) for both Drinking Water and Clean Water and **Bipartisan Infrastructure Law (BIL)** funding, as well as grants through the **NYS Water Infrastructure Improvement Act (WIIA)**. Over the past several years, we have assisted numerous communities in securing millions in WIIA grants in addition to low-cost and no-cost SRF financing for water and sewer projects.

We also have experience in successfully securing grants from the **USDA's Rural Development** programs and the **Community Development Block Grant** program for public facilities and infrastructure project. In addition, we have assisted communities in successfully securing grant funds from the **NYS Department of State** for flood planning and have assisted several communities in developing documentation for over $3 million in grant funds under the **New York Rising** Program. Finally, we have successfully secured funds through the **NYS Office of Parks, Recreation and Historic Preservation** for historic preservation, park planning and trail projects.

Since its inception, we have submitted dozens of grant applications on behalf of municipalities through the State's **Consolidated Funding Application (CFA)** process for a wide variety of programs including Engineering Planning Grants (EPG), Water Quality Improvement Projects (WQIP), and Climate Smart Communities (CSC), to name a few.

OUR APPROACH TO WINNING GRANTS

Delaware Engineering has assisted a variety of communities in securing over **$260 million** in grants and low-cost loans in the last 5-years, and over **$470 million** since our inception. There are simple reasons for our high success rate:

- We assist clients in identifying project needs and budgets thoroughly
- We know eligibility and winning characteristics for each grant program within our focus
- We have long-standing relationships with agency staff and can obtain informal feedback to ensure the highest quality applications.
- We submit high quality, precisely focused applications at the right time in the grant cycles to ensure success.

The shot-gun approach to grant funds is rarely if ever successful and while it may seem admirable to state that a firm has submitted hundreds of applications, the better bet is the firm that has submitted many quality applications and been successful with essentially all, which is the case with our firm. The time and effort dedicated to properly scoping a project and matching the project to the grant source is repaid with a nearly 100% successful grant track-record. As a consultant in numerous communities, grant applications and administration are a frequent effort for our firm. We encourage contact with our references to verify our exceptionally successful grant writing efforts.

GRANT ADMINISTRATION SERVICES

Delaware Engineering D.P.C. has extensive experience in not only securing low-cost borrowing and grant funds on behalf of our municipal clients, but also helping to administer those funds. Grant administration can be a lengthy and time-consuming process, requiring attention to detail and extensive documentation.

OUR APPROACH TO GRANT ADMINISTRATION

As a consultant in numerous communities, Delaware Engineering takes a "start to finish" comprehensive approach to providing grant administration services to our clients including:

- Assisting with grant contract paperwork
- Documenting WBE/MBE compliance
- Tracking payments to vendors/contractors
- Preparing reimbursement requests/draw-down requests
- Completing progress reports & final reports
- Preparing project files for compliance audits

Our staff is well-versed in all of the requirements associated with a wide variety of grant programs including:

State or Federal Agency	Program(s)
NYS Environmental Facilities Corporation (EFC)	Water Infrastructure Improvement Act (WIIA) Engineering Planning Grants (EPG) Inter-Municipal Grants (IMG) Bipartisan Infrastructure Law (BIL)
NYS Department of Environmental Conservation (DEC)	Water Quality Improvement Program (WQIP) Green Infrastructure Grant Program (GIGP) Climate Smart Communities (CSC)
NYS Department of State (DOS)	State and Municipal Facilities (SAM) Local Waterfront Revitalization Program (LWRP) Comprehensive Planning Grants
NYS Homes & Community Renewal (HCR)	Community Development Block Grants (CDBG) New York Main Street (NYMS) Downtown Revitalization Initiative (DRI)
NYS Department of Health (DOH)	Lead Service Line Replacement Program (LSLRP)
NYS Office of Parks, Recreation & Historic Preservation (OPRHP)	Environmental Protection Fund (EPF)
Empire State Development (ESD)	Strategic Planning and Feasibility Studies
NY Governor's Office of Storm Recovery (GOSR)	NY Rising
Federal Emergency Management Agency (FEMA)	Hazard Mitigation & Post-Emergency Response Grants
US Department of Agriculture - Rural Development	Community Facilities; Water & Waste Disposal Grants
US Treasury Department	American Rescue Plan Act of 2021 (ARPA) Coronavirus Local Fiscal Recovery Funds

PUBLIC FUNDING SECURED FOR MUNICIPAL PROJECTS

Since its inception, Delaware Engineering has submitted hundreds of grant applications for a wide variety of public projects. Just within the **past five years**, we have successfully secured over **$260 million** in grants and low-interest loans on behalf of our municipal client. Below is a summary of those awards:

2022

Municipality	Project	Program(s)	Grant(s)	Loan(s)
Amsterdam (T)	Sewer Study	EPG	$50,000	---
Canajoharie (V)	I&I Study	EPG	$50,000	---
Catskill (V)	CSO Elimination	BIL/WIIA/CWSRF	$11,285,813	TBD
Coxsackie (V)	CSO Elimination	BIL	$2,983,000	---
Delhi (V)	Fluoridation System	NYSDOS-FL	$70,000	TBD
Hancock (T)	Fishs Eddy Water System	BIL	$2,146,900	TBD
Hunter (V)	I&I Study	EPG	$50,000	---
Hunter (V)	Water Meter Installation	GIGP	$585,000	TBD
Liberty (T)	Swan Lake WWTP Upgrade	BIL-CWSRF	$6,916,000	$6,584,000
Oneonta (C)	WWTP Upgrade – Phase II	BIL	$2,626,500	TBD
Phelps (V)	I&I Study	EPG	$50,000	---
Port Chester (V)	SSO Elimination	WIIA/CWSRF	$4,012,713	TBD
Sherburne (V)	WWTP Upgrade	BIL	$8,887,500	TBD
St. Johnsville (V)	I&I Study	EPG	$50,000	---
Thompson (T)	Kiamesha WWTP Upgrade	BIL	$13,012,000	TBD
Thompson (T)	Emerald Green WWTP Upgrade	BIL	$6,939,000	TBD
Windham (T)	Zoning Updates	DOS-SGPG	$72,000	---
		TOTAL:	**$59,786,426**	**$6,584,000**

2021

Municipality	Project	Program(s)	Grant(s)	Loan(s)
Amsterdam (T)	Structural Assessment	Preserve NY	$4,000	---
Canajoharie (V)	I&I Study	EPG	$30,000	---
Catskill (V)	Boat Launch	HRE	$50,000	---
Delaware (T)	Callicoon WWTP	CSC	$2,000,000	TBD
Fallsburg (T)	I&I Study	EPG	$50,000	---
Franklin (V)	Water Tank Replacement	CDBG	$791,500	---
Greenwood Lake (V)	Water System Upgrades	WIIA/DWSRF	$3,000,000	TBD
Hudson (C)	CSO Remediation	WQIP	$1,4000,000	---
Hunter (V)	Firehouse Relocation	CSC	$1,970,000	---
Lewisboro (T)	Water System Upgrades/PFOAS	WIIA/DWSRF	$1,163,700	TBD
Liberty (T)	Swan Lake WWTP Upgrades	WIIA/CWSRF	$4,500,000	TBD
Liberty (T)	White Sulphur Springs WD Upgrades	CDBG	$787,700	---
Montgomery (V)	Downtown Design Guidelines	NYMS	$20,000	---
Mount Kisco (V/T)	Saw Mill Pump Station	WQIP	$5,000,000	TBD
Phelps (V)	WWTP Disinfection Upgrade	WQIP	$381,372	TBD
Port Chester (V)	I&I Study	EPG	$100,000	---
Port Chester (V)	Combined Sewer Separation	CDBG	200,000	---
Red Hook (V)	PFOAS Removal/Resiliency	WIIA/DWSRF	$1,080,000	TBD
Rhinebeck (V)	Water System Upgrades	WIIA/DWSRF	$681,063	TBD
St. Johnsville (V)	Water System Evaluation	CDBG	$35,000	---
St. Johnsville (V)	WWTP Upgrade	WWIA/CWSRF	$1,744,241	TBD
Thompson (T)	Emerald Green WWTP UV Upgrade	WQIP	$416,800	---
Thompson (T)	Kiamesha WWTP Upgrade	WIIA/CWSRF	$6,383,930	TBD
Thompson (T)	Kiamesha WWTP Upgrade	WQIP	$1,000,000	---
Tusten (T)	Narrowsburg Water Upgrades	WIIA/DWSRF	$3,000,000	TBD
Walton (V)	I&I Study	EPG	$30,000	---
		TOTAL:	**$48,419,306**	

PUBLIC FUNDING SECURED FOR MUNICIPAL PROJECTS

2020*				
Municipality	Project	Program(s)	Grant(s)	Loan(s)
Albany (C)	Sewer Upgrade Study	EPG	$30,000	---
Catskill (V)	CSO Study	EPG	$100,000	---
Coxsackie (V)	Collection System Study	EPG	$100,000	---
Hudson (C)	CSO Study	EPG	$100,000	---
New Lisbon (T)	Highway Garage	USDA CF	$800,000	$1,900,000
Port Chester (V)	I&I Study	EPG	$100,000	---
Sharon Springs (V)	West End Water System	CDBG	$1,000,000	---
South Glens Falls (V)	Water Meter Installation	GIGP	$1,000,000	---
South Glens Falls (V)	Water Main Replacement	CDBG	$900,000	---
		TOTAL:	**$4,130,000**	**$1,900,000**

Note: Many grant & loan programs were suspended or deferred in 2020 due to the COVID-19 pandemic

2019				
Municipality	Project	Program(s)	Grant(s)	Loan(s)
Catskill (V)	Main St. Water Mains	WIIA/DWSRF	$2,914,319	1,942,879
Delaware (T)	New Highway Garage	CSC	$1,859,890	---
Delhi (V)	Water Plant Improvements	CSC	$82,000	---
Fishkill (V)	Water System Improvements	WIIA/DWSRF	$1,320,000	$880,000
Fishkill (V)	WWTP Upgrade	WIIA/CWSRF	$4,125,000	$17,875,000
Hancock (T)	Water Distribution System	CDBG	$749,875	---
Hancock (V)	WWTP Upgrade	CDBG	$745,000	---
Hartwick (T)	Water System Upgrades	SAM	$1,000,000	---
Hoosick Falls (V)	WWTP – UV Disinfection	WQIP	$1,000,000	---
Hudson (C)	Washington St. Water System	WIIA/DWSRF	$321,600	$214,400
Lewisboro (T)	Oakridge WD Improvements	WIIA/DWSRF	$289,500	$193,000
Liberty (T)	White Sulphur WD Upgrades	CDBG/WIIA/DWSRF	$2,850,000	$1,400,000
Malta (T)	Planning – Infrastructure Plan	ESD	$37,500	---
Mount Kisco (V)	Saw Mill River Pump Station	WIIA/CWSRF	$2,375,000	$7,125,000
Mount Kisco (V)	Byram Lake WTP Upgrades	WIIA/DWSRF	$3,000,000	$4,000,000
South Glens Falls (V)	Water Tank Rehab and WWTP Upgrades	CDBG/WIIA/DWSRF	$2,600,000	$900,000
South Glens Falls (V)	Pump State Upgrades and Sewer Rehab	WIIA/CWSRF	$1,500,000	---
Suffern (V)	WWTP Upgrade	WIIA/CWSRF	$2,250,000	$6,750,000
Walton (V)	Water Mains & Tank Rehab	WIIA/DWSRF	$800,000	$1,200,000
Windham (T)	Water Line Extension	CDBG/USDA/DWSRF	$2,7000,000	$5,000,000
Windham (T)	Mitchell Hollow Bank Stabilization	CWC	$250,000	---
Windham (T)	Planning: Comp Plan Update	DEC CPSG	$35,000	---
		TOTAL:	**$32,804,684**	**$47,480,279**

PUBLIC FUNDING SECURED FOR MUNICIPAL PROJECTS

2018				
Municipality	Project	Program(s)	Grant(s)	Loan(s)
Canajoharie (V)	Water Distribution & Storage	WIIA/DWSRF	$1,650,000	$1,100,000
Coxsackie (V)	Storage & Distribution System	WIIA/DWSRF	$3,000,000	$2,000,000
Delaware (T)	Callicoon Water System Upgrades	WIIA/DWSRF	$2,543,060	$1,659,612
Duanesburg (T)	UV Disinfection	WQIP	$300,000	---
Duanesburg (T)	WWTP Upgrades	WIIA/CWSRF	$500,000	$1,300,000
Germantown (T)	WWTP Improvements	WIIA/CWSRF	$625,000	$1,875,000
Greenville (T)	Water System Improvements	WIIA/DWSRF	$1,107,180	$675,120
Hancock (T)	Water Mains & Tank Rehab	CDBG	$660,000	---
Hancock (V)	Water System Improvements	WIIA/DWSRF	$2,400,000	$1,600,000
Hartwick (T)	Planning: Water/Sewer Study	USDA TA	$52,000	---
Liberty (T)	White Sulphur Springs Phase 9	CDBG	$749,500	---
Liberty (V)	WWTP Improvements	WIIA/CWSRF	$1,914,222	$7,485,778
Middleburgh (V)	Wastewater System Improvements	WIIA/CWSRF	$914,500	$2,743,500
Middleburgh (V)	Wastewater System Improvements	CDBG/USDA	$2,000,000	---
Millbrook (V)	Water System Improvements	WIIA/DWSRF	$1,140,000	$760,000
Port Chester (V)	Sewer System SSO Project	WQIP	$506,000	---
Port Chester (V)	Sanitary Sewer Rehab	WIIA/CWSRF	$316,250	$870,125
Saratoga County	Water Treatment Plant Expansion	WIIA/DWSRF	$3,177,377	$4,766,005
Sharon Springs (V)	Water Tank	CDBG/DWSRF	$1,000,000	$4,223,500
South Glens Falls (V)	Pump Station & Sewer Lining	WIIA/CWSRF	$500,000	$1,500,000
South Glens Falls (V)	WTP Improvements & Storage Tank	WIIA/DWSRF	$1,620,000	$1,080,000
Thompson (T)	Kiamesha Lake Sewer Study	EPG	$30,000	---
		TOTAL:	**$26,705,089**	**$33,638,640**

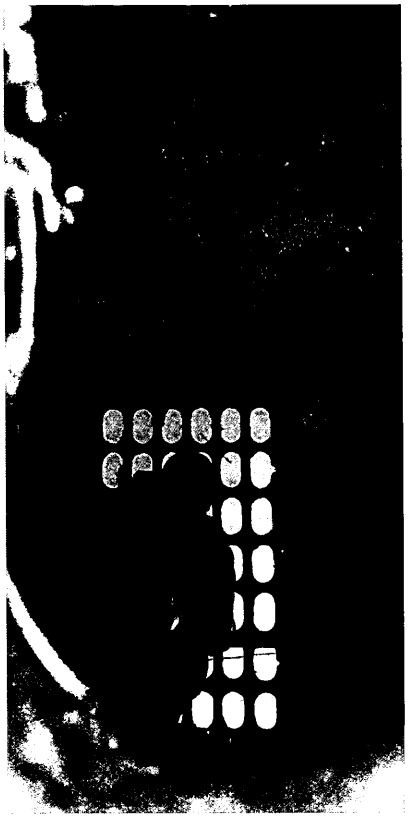
SECTION III

IN THIS SECTION

Previous Completed Similar Projects

VILLAGE OF ARDSLEY

SANITARY SEWER SYSTEM EVALUATION



Village of Ardsley, owns and maintains the sewer collection system in the Village, which is entirely a gravity system consisting of approximately 130,000 linear feet of gravity sewer pipes The Village is a Municipal Separate Storm Sewer System (MS4) regulated by the NYSDEC with respect to stormwater collection and discharge.

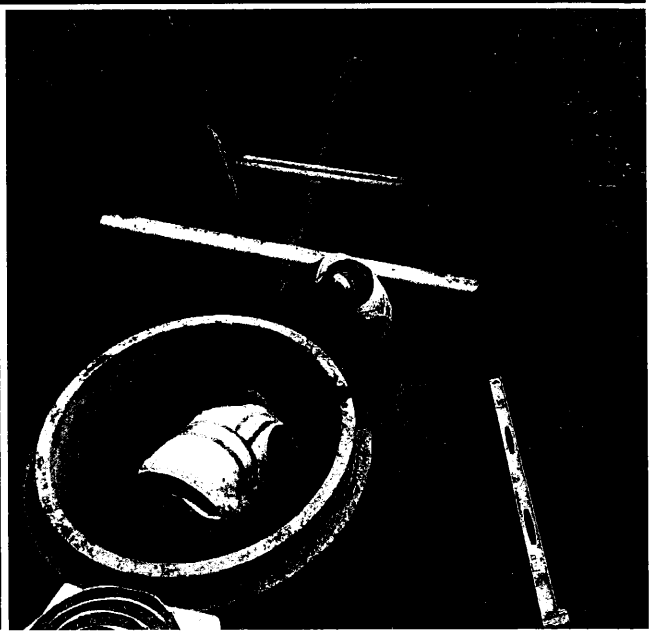
To support the Village's proactive maintenance of the sanitary sewer system, Delaware Engineering was contracted to perform sanitary sewer mapping and prepare recommendations. The sewer system evaluation characterized the system, identified potential deficiencies and provided a prioritized list of recommended capital improvements

The scope of the comprehensive sanitary sewer evaluation included flushing all or some portions of the collection system to remove grease build-up and debris to ensure that video inspection of the entire system possible. Smoke testing was performed in specific sections to determine deficiencies that need to be addressed. The whole of the evaluation concluded in a prioritized list of recommendations and associated costs for proposed system improvements.

This working document is used to determine the best course of action over the next several years to address sewer replacements and repairs.

Town of Catskill

Wastewater Collection System Planning and Design



Delaware Engineering assisted the Town of Catskill in the planning, permitting, funding, design and construction of a sewer collection system in the Hamlets of Leeds and Jefferson Heights.

Delaware originally prepared a Feasibility Study which analyzed several alternative methods for providing sewer service in the Hamlets, with associated costs. The Study ultimately recommended conveying the wastewater to the Village of Catskill WWTP as the most cost-effective solution.

Delaware then prepared a Map, Plan and Report and assisted the Town in forming a Sewer District, as well as executing an Intermunicipal Agreement with the Village of Catskill for treatment and O&M.

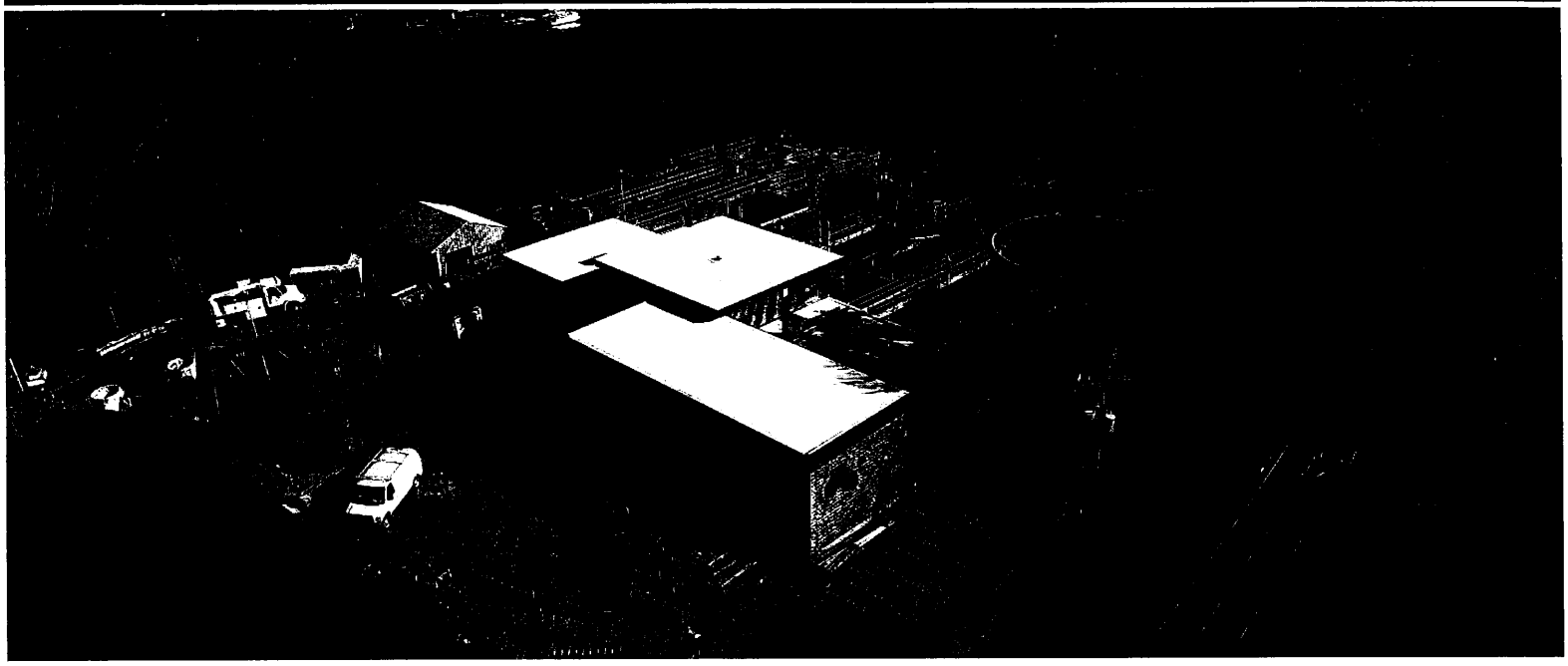
Throughout the project, Delaware provided financial assistance, including rate impact analysis, and funding procurement through the CWSRF program. Staff guided the Town through the SEQR process, coordinated the public information sessions and developed a Sewer Use Law.

During the final stages of the project, Delaware completed engineering design of the sewer system, which includes over 9 miles of collection piping and 5 pump stations, and obtained all necessary permits for construction.

The project was bid in 2016 and was completed in the summer of 2019. Delaware provided construction inspection and management services throughout project construction.

VILLAGE OF COXSACKIE

WASTEWATER TREATMENT PLANT AND COLLECTION SYSTEM UPGRADES



As a result of years of sanitary sewer overflows (SSO) and deficiencies in both its wastewater collection system and treatment plant, the Village of Coxsackie was under an order-on-consent to solve its SSO issues, and there was a moratorium on growth in the Village. The Village needed to increase its capacity for both collection and treatment of wastewater in order to remedy its violations and to accommodate new growth.

Delaware completed an engineering study that identified solutions to the sewer overflows. Based on hydraulic modeling and CCTV inspection of the sewer system, the recommendations included relining sanitary sewers, some storm sewer separation, upgrading the sewer pump station, and up-sizing the main sanitary sewer trunk line. This combination of inflow and infiltration removal, combined with a better and larger collection system leading to the plant, was designed to deal with the Village's SSO issues on a comprehensive basis.

The upgrades to the wastewater treatment plant included installing a new mechanical fine screen and a new grit removal system, creating a new Headworks Building, adding a secondary clarifier, and providing other necessary mechanical upgrades.

Delaware successfully secured a $3 million WIIA grant for the Village, along with CWSRF subsidized financing to fund the overall project and solve the sewer overflows. The firm's scope of work included planning, grant and financing assistance, creation of the engineering study, SEQRA environmental review, plant and systems design, bidding, construction administration, construction observation, and start-up assistance.

Total Project Cost: **$17,000,000**

Facility Capacity: **1.5 MGD**

VILLAGE OF COXSACKIE

Pump Station & Collection System Upgrades

As a result of years of sanitary sewer overflows (SSO) and deficiencies in both its wastewater collection system and treatment plant, the Village of Coxsackie was under a NYSDEC Order-on-Consent to solve its SSO issues, and there was a moratorium on growth in the Village. The Village needed to increase its capacity for both collection and treatment of wastewater in order to remedy its violations and to accommodate new growth.

As part of a $17M overall upgrade to the WWTP and collection system, Delaware Engineering oversaw the planning, design, bidding and construction of upgrades to two pump stations and the replacement of key sewer lines with known SSO issues.

The schedule of compliance specifically called out elimination of the overflows at the West Coxsackie and Riverside Avenue pump stations. The scope of work at the Riverside Pump Station included installation of a new wet well, valve pit, pump, and controls. The West Coxsackie Pump Station upgrades included a new valve pit, pumps, controls and new control building.

The collection system upgrades consisted of the installation of approximately 2,370 linear feet of 16" force main and 2,300 linear feet of 24" gravity sewer. Construction on both contracts began in 2019 and were completed in late 2020 at a total cost of approximately $3.1 million.

In 2021, the Village received a $100,000 EPG grant to conduct further evaluation and investigation of the sanitary collection system with the goal of reducing infiltration and inflows (I&I). Delaware is currently overseeing CCTV inspections and smoke testing within the collection system to identify needs and prioritize future work.

TOWN AND HAMLET OF DUANESBURG

WASTEWATER COLLECTION SYSTEM PLANNING AND DESIGN

Delaware Engineering assisted the Town of Duanesburg in evaluating the financial and engineering feasibility of providing a centralized public sewer system for the Hamlet. The Hamlet had long-standing environmental concerns due to the failure of aging septic systems. Delaware prepared a Feasibility Study which evaluated (1) the potential cost of several alternative service areas, and (2) several methods of treatment, including conveyance to the Delanson wastewater treatment plant versus a decentralized wastewater treatment system.

The Town ultimately selected to construct a collection system to convey the hamlet's wastewater to a sequencing batch reactor and sand filter plant that serves the Town's neighboring Sewer District #1, in the Village of Delanson. In addition to the new collection system in the Hamlet of Duanesburg (SD3), upgrades were made at the existing WWTP to account for the increase in flows from the newly created district.

Delaware helped the Town form a new sewer district, and prepared a Preliminary Engineering Report that led to CWSRF financing with a zero-interest Hardship Determination. Further, Delaware assisted the Town in obtaining grant funding for the project via DASNY, WIIA, and Schenectady Metroplex.

Delaware also assisted the Town in completing the SEQR process, obtained all necessary permits for construction, and participated in public information sessions. In 2016, Delaware completed the design and bidding phase of the project. Construction was completed in 2018, and Duanesburg residents are now connecting to and using the system.

Total Project Cost: $3.3M

SECTION IV

IN THIS SECTION

References

CLIENT REFERENCES

VILLAGE OF FISHKILL

2008 - PRESENT

Wastewater Treatment Plant Upgrade $21 million, Sewer Rate Analysis, Sanitary Sewer Collection System, I&I Improvements Project

Dave Morrison, Water Superintendent

1095 Main Street, Fishkill, NY 12524

914-755-7064 // dave@vofishkill.com

VILLAGE OF COXSACKIE

2002 - PRESENT

1.25 MGD Wastewater Collection, Conveyance and Treatment System Intermunicipal Agreements; Regulated Sanitary Sewer Overflow SPDES; EPA Major Facility; Order on Consent Negotiations; Sewer Connection Moratorium Management; Infiltration and Inflow Studies and Mitigation; Collection System Hydraulic Improvements; Treatment Plant Hydraulic and Organic Capacity Improvements; Grant Writing

The Honorable Mark Evans, Mayor

119 Mansion Street, Coxsackie, NY 12051

518-731-2718 // mayor@villageofcoxsackie.com

CITY OF HUDSON

2009 - PRESENT

6.0 – 16.9 MGD Wastewater Collection, Conveyance and Treatment System Regulated Combined Sewer Overflow; Order on Consent Negotiations; EPA Major Facility; Infiltration and Inflow Studies and Mitigation; Collection System Hydraulic Improvements; Treatment Plant Hydraulic and Organic Capacity Improvements; Project Financing and Grant Writing

Robert Perry, Jr., Department of Public Works Superintendent

520 Warren Street, Hudson, NY 12534

518-828-9458 // hudsondpw@mhcable.com