



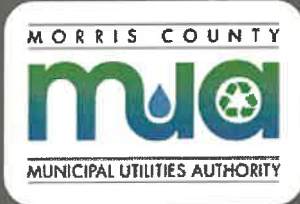
architects + engineers

ORIGINAL



Proposal for

#01 Engineering Services - Water Division



Proposal for

#01 - Engineering Services –
Water Division



01.16.2026

Contact

**Patrick K. Cole, P.E., CME,
CPWM**
Vice President, Deputy Market
Director of Water/Wastewater

H2M Associates, Inc.
119 Cherry Hill Road, Suite 110
Parsippany, NJ 07054



862.207.5900 ext. 2104



973.334.0507



pcole@h2m.com

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ENGINEERING NJ #24GA28019100
LAND SURVEYING NJ #24GA28019100
LANDSCAPE ARCHITECTURE NJ #24GA28019100

January 16, 2026

Mr. Larry Gindoff, Executive Director
Morris County Municipal Utilities Authority
370 Richard Mine Road
Wharton, NJ 07885

RE: Proposal for #01 Engineering Services – Water Division

Dear Mr. Gindoff:

H2M Associates, Inc. (H2M) is pleased to submit a proposal to the Morris County Municipal Utilities Authority (MCMUA) to provide engineering services to sustain its water supply infrastructure. H2M is currently working with the MCMUA for the replacement of approximately 32,300 square feet of standing seam structural metal roofing for the Main Transfer Station Building at the Parsippany-Troy Hills Transfer Station, in addition to a retained role as the MCMUA's Water Exploration Engineer. As a full-service firm, we specialize in water, wastewater, structural, mechanical, electrical, plumbing, and civil engineering, and architecture, and thus have the expertise needed to produce engineering design, prepare permits, and oversee the construction of water infrastructure projects. With this comprehensive spectrum of technical services, and the location of our North Jersey Regional Office just 10 miles from MCMUA headquarters, H2M is well-suited to serve in this critical role..

Over more than 90 years, we have honed our water and wastewater engineering expertise in areas such as supply well design; drinking water treatment systems; distribution design systems; water distribution system analysis; storage tank design, construction, rehabilitation, inspection, and coating/painting; instrumentation and SCADA designs; automated mapping/facilities mapping; construction inspection, administration, and management; and operation and maintenance (O&M) programs; aquifer analysis, determination, computation, and management plans. Additionally, H2M's wastewater treatment design experience includes facilities with flows from less than 5,000 gallons per day to over 100 million gallons per day. The firm also has extensive design experience in upgrading existing sewage treatment facilities from secondary to advanced treatment for nutrient removal.

We propose William F. Delnero, P.E. to lead this work as Project Manager. He has more than 15 years of experience as a water resources engineer, wastewater engineer, and civil engineer. His expertise includes lead service line replacements, water main design, emerging contaminants treatment plant design, storage tank inspections, wastewater pump station design, and storm hardening/resiliency design. In addition, I will make sure your expectations are met for all projects associated with this appointment and oversee and support the work of Mr. Delnero as the Principal-in-Charge. I lead H2M's wastewater and water infrastructure practice in the State of New Jersey and have 25 years of experience in this field.

We appreciate your consideration for this important work. Please reach me by phone at (862) 207-5900 ext. 2104 or at pcole@h2m.com with any questions or requests for additional information. Thank you for your consideration.

Sincerely,
H2M Associates, Inc.

Patrick K. Cole, P.E., CME, CPWM
Vice President, Deputy Market Director of Water/Wastewater

H2M Architects, Engineers, Geology, Land Surveying and Landscape Architecture, DPC (NY) offers its services in NY only
H2M Architects & Engineers, Inc. (NJ) offers its services in NJ, DE, CT, FL, LA, MA, PA, RI, and VA only
H2M Associates, Inc. (NJ) offers its engineering, land surveying, landscape architecture services in NJ only
H2M will provide appropriately licensed staff for this project - see Staffing Plan for details.

h2m.com

Executive Summary



Our Project Manager

William F. Delnero, P.E.
Assistant Vice President
Department Manager – Water Resources
wdelnero@h2m.com

H2MAssociates, Inc.
119 Cherry Hill Road, Suite 110
Parsippany, NJ 07054

Introduction

The Morris County Municipal Utilities Authority (MCMUA) is seeking an experienced consultant to provide engineering services for its water infrastructure projects during the year 2026. MCMUA provides a safe and clean supply of drinking water to customers throughout Morris County.

Our client references in Tab 2 can attest to the value and professionalism we brought to their water infrastructure projects. As will be further detailed in our submission, we offer a deep bench of experienced staff and a wealth of engineering design experience for New Jersey municipalities that will be leveraged to make the MCMUA's projects successful.

If desired by the MCMUA, we welcome the opportunity to present our qualifications in person, to answer your questions, and provide additional information regarding our firm and its capabilities.

Our Understanding

H2M will provide engineering services, as directed by the MCMUA, under the direction of a professional engineer licensed in the State of New Jersey. This work is anticipated to include mandatory attendance at the MCMUA's monthly public meeting and engineering review meeting, and any other meetings as directed. The engineer will be responsible for performing reviews and observation work, which is to be billed at the hourly rate schedule included in our submission.





► Executive Summary

Additionally, H2M may be subsequently tasked with design and construction management services and other work for capital projects as authorized by the MCMUA leadership. H2M anticipates preparation of an annual report, which highlights the MCMUA's operation and construction related activities over the past year.

Our Staff

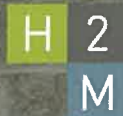
H2M's engineers, architects, scientists, and planners focus on developing solutions that fit not only budget and schedule, but also the character of the town or city where they are located. Our full-service firm includes more than 580 technical and support professionals based in New Jersey, New York, Connecticut, Pennsylvania, and Florida. The MCMUA will benefit from our office location in Parsippany, NJ, allowing us the ability to mobilize for assignments quickly. In addition to our close proximity, H2M has staff in all the support areas that the MCMUA may require. As a multidisciplinary firm, we do not need to subcontract experts, we have them in-house. Our firm comprises engineers (water supply, sanitary, civil, structural, environmental, mechanical, electrical, chemical, and traffic); architects; geologists; hydrogeologists; environmental scientists; chemists; biologists; toxicologists; industrial hygienists; and construction inspectors. Each team selected for work under this contract will be specifically chosen for their depth of expertise in the applicable field. As your one-stop-shop, we will strive to provide a high level of service to the MCMUA in a well-coordinated and timely manner, and provide sound, practical design/technical solutions. Additional qualifications of our staff can be found in Tab 3 of our proposal.

Water Supply Engineering Experience

As a regional leader, H2M's water resource engineers provide personal service and focused, cost-effective solutions to meet the demands of any planning, design, and construction project for any one of our municipal, governmental, industrial, or private clients. With multi-discipline and fully functional in-house professional staff, H2M strives to meet and exceed client goals and expectations to successfully complete projects, with the knowledge of and sensitivity to community and environmental concerns. The areas of our expertise in the field of public water supply include:

- » Water resource development, design, and management
- » Water system master, long range, and capital improvement planning
- » VOC removal treatment systems
- » Supply well construction and rehabilitation
- » Water treatment systems
- » Pump station/electrical system rehabilitation
- » Water storage tanks new and rehabilitation
- » Water storage tank AMPP inspection/cellular installation oversight
- » Distribution system/backflow prevention design and analysis
- » Instrumentation, control, and SCADA systems
- » Groundwater and system/hydraulic modeling
- » Chemical treatment/chemical compliance systems
- » Construction administration and inspection

“Having successfully provided professional services to towns and cities in both New Jersey and New York, we have earned a reputation for our practical approach and creative solutions.”



Here at H2M, we value people.



H2M was organized in 1933 and founded on the principles of professional excellence, hard work, and integrity.

Practical Approach. Creative Results.

H2M is a multi-disciplined professional consulting and design firm with a proud legacy of client service and a proven ability to tackle complex architectural, engineering, and environmental challenges. Since 1933, we have played a vital role in shaping local communities — designing and improving essential infrastructure such as water treatment plants, emergency response facilities, schools, roadways, public buildings, and more.

With decades of experience, we have built a reputation for delivering high-quality, client-focused solutions that balance innovation with practicality. Our approach is rooted in collaboration, technical excellence, and a deep understanding of the communities we serve. Whether navigating regulatory complexities, addressing evolving environmental concerns, or designing spaces that enhance everyday life, H2M remains committed to providing sound judgment, creative problem-solving, and exceptional service at every stage of a project.

H2M takes pride in the depth and diversity of our comprehensive in-house service capabilities. With a team of over 580 professionals — including engineers, architects, surveyors, scientists, planners, landscape architects, inspectors, and technical support specialists — we provide a fully integrated, multidisciplinary approach to our clients.

H2M Staff by Discipline

 139 Architecture	 76 Water	 63 MEP	 57 Environmental
 30 Construction Inspection	 30 Wastewater	 29 Civil	 12 Structural
 10 Planning	 8 Land Surveying	 4 Landscape Architecture	 3 GIS

OPERATING PHILOSOPHY

MISSION

Our People

We commit to developing our people and rewarding hard work with growth opportunities in an inclusive professional environment.

Our Clients

We commit to being trusted advisors for our clients and delivering problem solving value and quality on every project.

Our Communities

We commit to creating thriving and healthy communities by giving of ourselves and developing sustainable solutions that benefit everyone.

VISION

We exist to improve the quality of life for everyone in our reach by empowering our diverse talent to sustainably solve the challenges of the built environment.

VALUES

We Stand as One H2M

Inclusive. Supportive. Collaborative. No matter where you are.

We Challenge One Another

We show up curious and push boundaries.

We Do the Right Thing

Our character is built on doing what is right and ethical.

We Work Safely

We care for the lives of our people and their families.

We Own it

We hold ourselves accountable for team success and personal achievement.

We Embrace Diversity

We acknowledge and honor the fundamental value and dignity of all individuals.



Architecture

- Architectural design
- Comprehensive grant programs
- LEED design processes
- Interior design
- Removal of barriers to the handicapped
- Master plans and revisions
- Needs assessments
- Planning studies
- Building conditions surveys
- Restoration of historic structures
- Restaurant and kitchen design
- Zoning ordinance review
- Educational facilities design
- Assisted living facilities design

Civil/Site & Structural Engineering

- Roadway reconstruction and resurfacing
- Site plan design
- Street lighting
- Flood control and drainage
- Irrigation systems
- Sidewalks and curbs
- Storm drainage systems
- Water mains
- Local roadway study and design
- Subdivision design
- Streetscape design and improvements
- Parks, playgrounds, athletic fields
- Parking fields
- Highway planning studies
- Intersection design and improvements
- Visual impact analyses
- Geographic Information Systems (GIS)
- Green infrastructure design
- Structural conditions assessments
- Structural building design
- Structural renovations/alterations
- Cause and origin investigations
- Retaining walls, bulkhead, and culvert design
- Storm hardening/resiliency
- Expert testimony

Construction Phase Services

- Construction management/administration
- Resident engineering
- Construction inspection (F/T or P/T)
- Daily/weekly/monthly project reporting
- Utility coordination
- Weekly job progress meetings/minutes
- Schedule review
- Change order processing
- Payment requisition processing
- Project startup
- Commissioning
- Prepare punch list
- Project closeout
- Record drawings

Environmental Engineering & Sciences

- Air and water pollution control
- Hazardous waste management
- Hazardous materials storage design
- Waste minimization
- Environmental Impact Statements (EISs)
- Wetland delineation
- Environmental Site Assessments (ESAs)
- Environmental compliance audits
- Environmental permitting
- Site investigations
- Brownfield assessments

- Solid waste management facility design
- Solid waste facility operational assessments
- Waste and materials quantification and characterization analysis
- NYSDEC Part 360 regulatory compliance and permitting
- Remedial investigations/feasibility studies
- Risk assessments
- Above and underground tank management
- Soil and groundwater remediation
- Soil vapor intrusion studies
- Regulatory compliance programs
- Industrial hygiene
- Indoor air quality
- CM/LBP/mold inspections and abatement
- Computer modeling
- Asbestos investigation and removal
- Geographic Information Systems (GIS)

Land Surveying

- Boundary and title surveys
- Topographical surveys
- Horizontal and vertical control surveys
- Hydrographic surveys
- Route surveys
- Subdivision planning
- Sanitary and drainage study maps
- Legal descriptions
- Construction layout services
- As-built surveys
- Architectural surveys
- Structural surveys
- Under-construction inspection surveys
- Easement survey and description

Landscape Architecture

- Tree inventory and assessment
- Tree mitigation
- Landscape design and restoration
- Conceptual site design
- Landscape planning
- Illustrative renderings
- Landscape architectural detailing
- Streetscape and urban design
- Parks and playgrounds design
- Campus landscape design
- Private estate and residential design
- Planting design
- Wetlands mitigation
- Green infrastructure

MEP Engineering

- Electrical systems design
- Feasibility and implementation studies
- Power supply
- Exterior and interior building services
- Closed-circuit television security systems
- Emergency power generation
- Site/systems and load evaluations
- Energy studies
- Site lighting design
- Fire and security systems
- SCADA systems
- Utility company rebates and incentives
- HVAC systems design
- Heat and cooling load analysis
- Steam systems
- Hydronics
- Heat recovery systems
- Chillers and cooling towers
- Laboratory ventilation systems
- Site/systems evaluations

- Feasibility/implementation studies
- Energy conservation
- Cost/benefit analysis
- Commissioning/testing

Planning

- Comprehensive master planning
- Parks, open space and recreation planning
- Environmental and natural resource planning
- SEQRA and EIS documentation and process support
- Community visioning
- Zoning ordinances and analysis
- Redevelopment studies and plans
- Geographic Information Systems (GIS)
- Urban design
- Strategic solid waste management planning
- Stormwater management program planning
- FEMA hazard mitigation and resilience planning
- Design guidelines
- Renderings
- Feasibility studies and conceptual plans
- Downtown revitalization
- Expert private testimony
- Municipal board representation

Wastewater Engineering

- Characterization/quantification of waste
- Treatment facility evaluation
- Scavenger waste facility design
- Outfalls and leaching systems design
- Chemical feed systems design
- Monitoring and control systems
- Nutrient removal treatment systems design
- Facility planning studies
- Wastewater treatment studies
- Wastewater treatment plant design
- Wastewater reuse design
- Standby power systems
- Sludge thickening, dewatering
- Sludge treatment, disposal
- Odor control
- UV and chemical disinfection systems
- Sewer system extension planning
- User cost analysis
- Sanitary sewer design
- Sewer rehabilitation studies and design
- Infiltration/inflow evaluation
- Pump station evaluations and design
- Sewer flow modeling
- Security systems
- Geographic Information Systems (GIS)
- Discharge monitoring reports
- Plant performance monitoring
- Preparation of O&M manuals
- Facility start-up and operations
- Groundwater/effluent monitoring programs
- Operator training
- Industrial pretreatment programs
- Prepare/revise sewer use ordinance

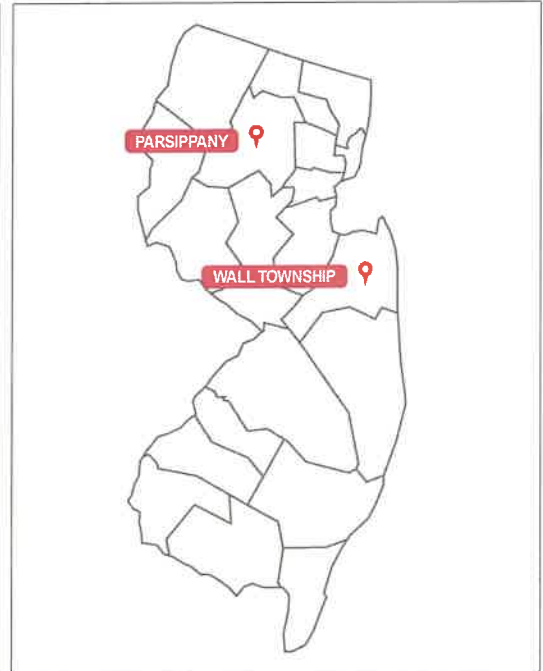
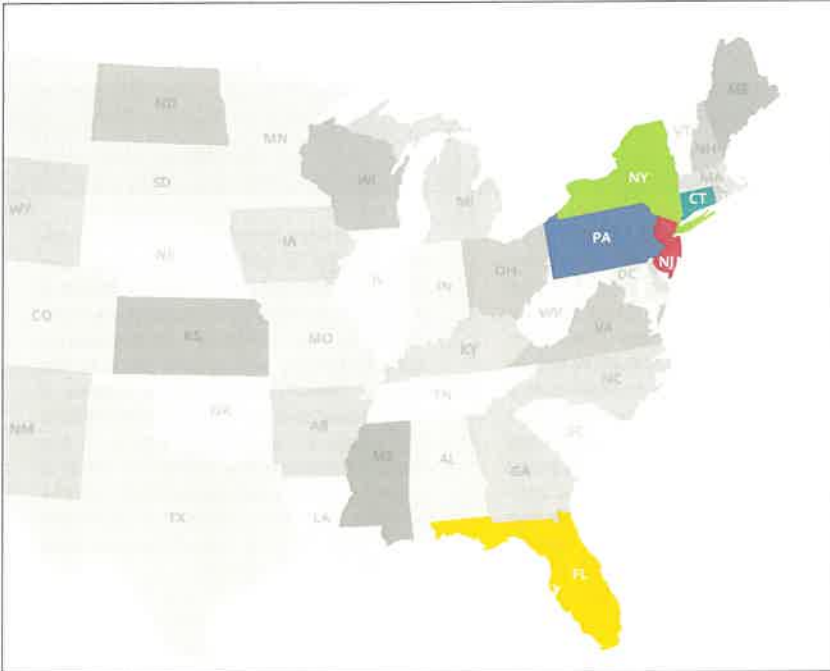
Water Engineering

- Supply well design
- Plant rehabilitation design
- Water treatment systems
- Water filtration systems design
- VOC removal treatment systems design
- Distribution system analysis and design
- Distribution hydraulic modeling
- Automated mapping/facilities mapping
- Storage tank rehabilitation/repainting
- Storage tank design
- Tank and coatings inspection
- Instrumentation and computer control designs
- Comprehensive groundwater modeling
- Geographic Information Systems (GIS)
- Aquatics and park design
- Public swimming pool design
- O&M programs
- Training programs
- Asset management



H2M Office Locations | New Jersey Offices

Distance from our Parsippany, NJ office to the Morris County Municipal Utilities Authority



-  538 Broad Hollow Road, 4th Floor East
Melville, NY 11747
-  230 West 38th Street, 14th Floor
New York, NY 10018
-  737 Roanoke Avenue
Riverhead, NY 11701
-  2 Executive Boulevard, Suite 401
Suffern, NY 10901
-  1133 Westchester Avenue, Suite N-210
White Plains, NY 10605

-  433 River Street, Suite 8002
Troy, NY 12180
-  119 Cherry Hill Road, Suite 110
Parsippany, NJ 07054
-  4810 Belmar Boulevard
Wall Township, NJ 07753
-  360 Bloomfield Avenue, Suite 406
Windsor, CT 06095

-  951 Yamato Road, Suite 202
Boca Raton, FL 33431
-  100 S. Ashley Drive
Tampa, FL 33602
-  333 SE 2nd Avenue
Miami, FL 33131
-  301 Grant Street, Suite 270
Pittsburgh, PA 15219

"H2M" refers to H2M Architects, Engineers, Geology, Land Surveying and Landscape Architecture, D.P.C. and/or its subsidiary H2M Associates, Inc., and/or its affiliate H2M Architects & Engineers, Inc., as appropriate to the context. Each company's professional resources are available to the others to the maximum extent permitted by applicable state laws. H2M will not practice, and should not be interpreted to be offering to practice, any professional service for which it and its cognizant employees are not properly licensed.

H2M Architects, Engineers, Geology, Land Surveying and Landscape Architecture, DPC (dba: H2M architects + engineers) is a NYS Design Professional Corporation. It maintains New York Certificates of Authorization to provide professional architecture, engineering, geology, land surveying, and landscape architecture services.

H2M Associates, Inc. is a New Jersey business corporation. It is a wholly owned subsidiary of the parent company. It maintains New Jersey Certificates of Authorization to provide professional engineering, land surveying, and landscape architecture services.

H2M Architects & Engineers, Inc. is a New Jersey business corporation. It is an affiliate of the parent company, being under the ownership and control of a group of appropriately licensed officers of the parent company. It maintains New Jersey Certificates of Authorization to provide architecture and professional engineering services. It is also appropriately structured to maintain certificates of authority to provide architecture and professional engineering services in Connecticut, Delaware, Florida, Louisiana, Massachusetts, Pennsylvania, Rhode Island, and Virginia.



The Core of Excellence is an H2M exclusive initiative that sets us apart from the competition with a focus on excellence and quality as a core element of our services. It's a firm-wide commitment to deliver excellence through innovative and best-in-class service to our clients, colleagues, and ourselves. H2M's Core of Excellence is comprised of five key components:

QA/QC We demonstrate our commitment to ensuring quality at the corporate level through our appointment of a full-time Director of Corporate QA/QC to lead the development, implementation, and oversight of H2M's Quality Management System (QMS). This commitment is further reinforced by established quality assurance team members who, independent of the project design team, assure that H2M's components of quality are incorporated. H2M's QMS is comprised of a combination of processes, tools and resources available to all H2M staff. These include Quality Control Checklists, established QA/QC communication channels, and templates all made accessible thorough H2M's comprehensive Project Management Framework.	SCHEDULING We recognize the importance of timely project delivery and take great pride in our ability to quickly mobilize, assign staff, and complete projects on time. H2M developed a custom scheduling interface allowing for consistent data inputs from the entire firm on a bi-weekly basis. This is transitioning to a centralized scheduling database that allows real-time total team scheduling updates and awareness, allowing H2M to actively adapt our resources to meet the needs of even the most demanding project schedules. We can share detailed, easy to read graphic schedules with our clients, allowing them to always have their finger on the pulse of their project's timeline.	SPECIFICATIONS Our focus and commitment to excellence and quality is further reflected in our Master CSI-based Specifications Library. A dedicated, full-time Specifications Manager oversees the continual development, standardization, and maintenance of our Master Specifications. H2M utilizes a cloud-based specification software platform that allows all users direct access to our Master Specifications Library to develop project-specific spec books. This process ensures that our project specifications include the latest updates in product data and reference standards.
BIM/CAD Building Information Modeling (BIM) has revolutionized the A/E/C industry. By using intelligent 3-D digital models to generate our designs, H2M can achieve a higher level of quality, consistency, and efficiency in our production process, minimizing the potential for change orders during construction. We employ a full-time, dedicated, and independent team comprised of design professionals and BIM-CAD specialists whose primary responsibilities are to create, deploy, and maintain company-wide standards, templates, procedures, and workflows. Our adoption of BIM has been the single most important change in how we design and manage our projects.	SAFETY Safety is essential at H2M. We employ a dedicated corporate health and safety manager within the Core of Excellence. H2M has established mandatory safety training and is actively implementing the Plan-Do-Check-Act methodology. By incorporating safety into our overall quality management systems, we ensure that all of our staff can get home safely each day and that we proactively respond to our clients' health and safety requirements.	CLIENT BENEFITS ★ Well-coordinated construction documents that reduce project change orders and minimize cost overruns ★ Consistent quality and proven performance ★ Optimized resource allocation to meet project demands ★ Increased compliance with the latest industry and regulatory standards ★ Enhanced project visualization via 3D modeling ★ Improved collaboration among all project stakeholders



► Firm Qualifications & Experience

Water Supply Engineering Clients

► Jackson Township Municipal Utilities Authority (JTMUA)

New PRM Well 18 and Transmission Main: Design, permitting, and construction phase assistance for a new 1,400 gpm potable production well to supplement firm source capacity in the Jackson Township.

» Chief Engineer, Earl Quijano, (732) 928-2222

► Borough of Spring Lake

Ocean Avenue Water Main Improvements: Two miles of new 12" water main in a County right-of-way. Performed design, permitting, and construction management.

» Business Administrator, W. Bryan Dempsey, (732) 449-0800

► Mt. Arlington Borough

Water/Sewer Engineer-of-Record: Serving the Borough on all matters related to water supply and sewerage system planning, maintenance, and capital projects delivery.

» Andrew Tatarenko, Business Administrator, (973) 398-6832

► Monroe Township Utility Department

Well 16A Improvements: Overhaul of an 1,100 gpm potable water production well station on behalf of a major central NJ public utility, include design, permitting, and construction services. Process improvements, architectural renovation of the well house, and installation of all new electrical switchgear and emergency generator.

» Director, Joseph Stroin, (732) 521-1700

► City of Newark Water and Sewer Department

CTA Evaluation/Optimization of Pequannock WTP: Treatment process evaluation and optimization using prescriptive USEPA methodology for a 60 MGD surface water treatment plant located in Northern NJ.

» Director, Kareem Adeem, (973) 733-6400

► Borough of Brielle

Water Supply Engineering: Rehabilitation of an existing steel ground storage at the Borough's Union Lane WTP, simplification and renewal of yard piping, and valving to provide better flow control. Construction of a new elevated steel storage tank at the Borough's Old Bridge Well site. This tank replaces a steel standpipe that structurally failed.

» Business Administrator, Thomas Nolan, (732) 528-6600

► NJ American Water

Chambers Brook Crossing: Design, permitting, and construction services for a utility crossing of a surface water body located at the border of Bedminster and Bridgewater Townships. Included significant regulated land use coordination with the New Jersey Department of Environmental Protection (NJDEP).

Mountain Station Rehabilitation: Overhaul and rehabilitation of a well station located in Somerset County, composed of three wells with a combined capacity of 1,100 gpm. Scope included well TV inspection, pump testing, interaction with the Bureau of Water Allocation – followed by design and permitting for complete replacement of downhole and at-grade well componentry and complete rehabilitation of the treatment infrastructure associated with the station. The project included design and permitting for a new two-mile transmission main to re-route station discharge to a new point in the distribution system.

Swimming River Treatment Plant Improvements: Extensively scoped project covering multiple years of interaction with operations, equipment suppliers, and general contractors on behalf of NJ American Water. Overall intent of project was to provide supplemental capacity to the Coastal North Service Area through the implementation of MF/UF membrane filtration systems. H2M provided design, permitting, and construction management services for a system of modular membranes, booster pumping, treatment chemicals, and site/civil improvements resulting in 2,800 gpm (4 MGD) additional potable capacity at the Swimming River Treatment Plant. Additionally, provided technical support for the revision of regulatory permits for operation of the 1,400-gpm capacity Well 3 (located at the north bank of the Swimming River Reservoir).

» VP of Engineering, Donald Shields, P.E., (908) 431-3223



► Firm Qualifications & Experience

► Borough of Sea Girt

Environmental Consultant and Water/Sewer Engineer-of-Record: Serving the Borough on all matters of water supply and sewerage system planning, maintenance, and capital projects delivery.

- » Business Administrator, Lorraine Carafa, (732) 449-9433

► Veolia Toms River (formerly United Water)

Indian Hill Tank Rehabilitation: Design, permitting, and construction management services for the overhaul of a 0.5 MG-capacity steel water storage tank, located in the Township of Toms River.

- » Project Manager, Frederick Austin, (732) 557-7788

► Village of Ridgewood

West Station End and Wortendyke Well Improvements: Overhaul of infrastructure at two well stations, including major treatment equipment replacement, at each of capacity 400 gpm, serving the public water system for the Village of Ridgewood. Scope included design, permitting, and construction management services.

- » Ridgewood Water Director, Richard Calbi Jr., P.E., P.P., (201) 670-5500 x271

► Township of Mt. Olive

Flanders Well No. 3 Improvements: Design, permitting, and construction management services for the overhaul of a 300 gpm public water production well after the discovery of contamination with PCE. Replacement of well pumping assembly and design/construction of new treatment infrastructure. Coordination with NJDEP Bureau of Water System Engineering and Bureau of Water Allocation.

- » Andrew Tatarenko, Business Administrator, (973) 691-0900



Additional examples of project experience follow this page. →

Water System Improvements



Morris County Municipal Utilities Authority

Mine Hill, NJ

Construction Cost: \$1.4 million

SERVICES PROVIDED

Tank Rehabilitation Design

Construction Inspection

Transmission Water Main Design

Regulatory Approvals



A three million gallon (MG) ground storage facility and approximately 3,200 linear feet of water transmission main and appurtenances were constructed to provide additional storage for the Morris County Municipal Utilities Authority (MCMUA) water system.

As the MCMUA expanded its system via interconnections with municipal systems that were distant from its source of supply, the MCMUA recognized the need for additional storage to meet peak demand and provide emergency supply. To meet that need, a new water storage facility was constructed in Mine Hill and a water transmission main was constructed to the tank.

The area selected for the tank site was located in close proximity to a planned development. Additionally, abandoned iron mines were located in the vicinity of the tank site. A geotechnical evaluation was performed to identify the sub-surface soils conditions and confirm the locations of the mines. The final tank location was based on maintaining a minimum setback distance of 125 feet from the abandoned iron mines, equalizing cut and fill, and minimizing impact to the proposed housing.

The 3 MG tank was designed to be steel with a rolled-knuckle roof and interior columns. The 113-foot diameter tank was supported on a reinforced concrete ringwall. The ringwall elevation was selected to minimize the overall diameter of the storage tank and reduce the potential impact on the surrounding planned housing.

To prevent excessive pressure buildup in the Mine Hill portion of the MCMUA system, a surge relief valve was incorporated in the

valve vault to relieve pressure to the tank. To ensure adequate water circulation and maintain water quality in the tank, separate draw and fill lines were provided. The fill line was designed with an interior riser pipe of adequate height to prevent short-circuiting of the water, and the fill line was fitted with a removable silt stop. Baffling plates were not considered feasible for this tank due to its size and associated costs. Additionally, a cathodic protection system was installed to protect the steel from corrosion.

The 16-inch diameter water transmission main was sized to deliver a minimum fire flow of 5,000 gallons per minute (gpm). Main valves were selected to be butterfly-type to provide for ease of operation compared to a gate valve, which would have required the valve to be furnished with gearing and a bypass valve due to its size. The water transmission main included one crossing of Route 46, which was made by open-cut excavation. Three alternative routes for the proposed water main to the tank were considered. Length of pipe, number of easements required, and impact to housing were used to select the final water transmission main alignment.

A Design Memorandum was prepared for review by the MCMUA, and for selection of the final tank location and water transmission main alignment.

Water Main Replacement



Morris County Municipal Utilities Authority

Randolph, NJ

Construction Cost: \$1.8 million

SERVICES PROVIDED

Transmission Water Main Design Permitting
Construction Oversight



We designed a replacement of approximately 9,000 linear feet of transmission main to prevent disruption of service and improve reliability.

A 24-inch pre-stressed concrete cylinder pipe (PCCP) was the primary transmission main between two Morris County Municipal Utilities Authority (MCMUA) wellfields in Randolph Township and their pumping station. The MCMUA had concerns with the structural integrity of the PCCP, and since a break on this transmission main would seriously disrupt water service to its customers, the MCMUA decided to replace the PCCP with a more reliable ductile iron pipe (DIP) as a preventative measure.

Additionally, local residents' water services were connected to PCCP transmission main. In conjunction with the Groundwater Rule, the NJDEP designated each of the MCMUA's wells as an individual treatment plant and a point of entry. Due to the close proximity of the water services to the wells, there was insufficient chlorine contact time to comply with the 4-Log removal standard without significantly increasing the chlorine dosage. This was unacceptable to the MCMUA, as it would have a negative aesthetic impact to customers and would have increased the annual chemical cost.

In consideration of the PCCP structural integrity issue and compliance with the 4-Log removal standard of the Groundwater Rule, a plan was conceived to replace the 1.5 mile transmission main with a dedicated DIP transmission main without service connections. The existing PCCP was left in place as part of Randolph Township's water distribution system. The new DIP transmission main provided increased reliability and afforded the MCMUA the ability to operate under the 4-Log removal standard.

The replacement water transmission main was located in both the Highlands Planning and Preservation areas. As such, permitting was required to demonstrate that the proposed main did not conflict with the goals of the Highlands Act. Since it did not increase the system capacity or provide opportunity for utility expansion for further development but effectively separated the MCMUA transmission system from Randolph Township's distribution system, the project was approved.

Emergency PFAS Treatment



Atlantic City Municipal Utilities Authority

Atlantic City, NJ

Construction Cost: \$2.5 million

SERVICES PROVIDED

Water Treatment

PFC Removal

Water Systems

Hydrogeology

Construction Administration

Construction Inspection

Treatability Analysis

Due to firefighting drills held at the Atlantic City Airport, PFC levels are high in the systems ground water and surface water supplies. The ACMUA tasked H2M with designing a system to bring them into compliance with new PFC contaminant levels implemented in 2021. Rapid treatment on an urgent timeline was necessary to ensure compliance within the year.

To meet the strict deadline, H2M leveraged our previous experience in treating chemicals in this family, prior established relationships with manufacturer partners, and ACMUA's existing equipment. We guided the ACMUA on deploying GAC to three wells on the bank of a lake and advised on how to manage source water. Contractors and vessel manufacturer representatives were brought to the FAA-owned site ahead of time to give a better understanding of site conditions and constraints. The dirt access road to the well sites is relatively narrow and the area is highly wooded. An FAA escort was required for site access and no large equipment could be left behind overnight without permission.

H2M proposed installation of three sets of GAC vessels, with one vessel pair at each of the three different wells. Design specified placement of the vessels on road plates to avoid excessive soils disturbance and enable easy removal once a permanent solution was introduced. Vessels were procured by ACMUA prior to completion of the general contract design to ensure they could be manufactured in time. GAC media was also purchased by the ACMUA through an extension of the existing contract the authority had with Calgon.

To assist in mitigating GAC backwash challenges, the contractor and H2M developed a plan to install temporary bypass loops between the influent and effluent lines on the vessel tree. This let the vessels get backwashed with well water and then sent it to the head of the plant to go through the rest of the treatment plant. Oil found in the well columns from the oil-lubricated pumps was bailed out to prevent the oil from getting into the vessels. Water lubricated pumps were used to replace the existing oil-lubricated pumps.

The project went according to the design plan, schedule, and budget with a few exceptions. The road plates specified were replaced by concrete mats, resulting in a credit to ACMUA and an expedited process. Supply chain issues caused minor delays. The project brought ACMUA into compliance with the PFC MCL that was set for New Jersey. Further work will need to be done over the next year or two to create a permanent solution.



AWARDS

♦ NJ Alliance for Action Distinguished Engineering Award

♦ ACEC-NY Engineering Excellence Awards Gold

♦ ACEC-NJ Received Honor Award for a Non-Transportation Project



Emergency Design for Perfluorinated Compounds



U.S. Government/ American Water Military Services Group

Morris County, NJ

Construction Cost: \$2 million

SERVICES PROVIDED

Emergency Design
Permitting

O&M Assistance
Treatment of PFOA and PFOS



H2M recently delivered emergency design and permitting services for the treatment of perfluorinated compounds (PFCs) at the United States Army Research Facility, the Picatinny Arsenal.

The Picatinny Arsenal's water system is operated and maintained by the American Water Military Services Group (AWMSG), through a long term service agreement. During AWMSG's routine water quality sampling, high levels of PFC's (PFOA and PFOS) were detected in two of the facility's active drinking water production wells. Given the status of PFC's as an emerging contaminant class, there were no existing treatment processes at the Picatinny Arsenal's water treatment plant which could remove these compounds from the drinking water. The Facility's personnel were put on bottled water until a new treatment process was installed.

AWMSG engaged the design-build team of Keystone Clearwater Solutions (a general contracting firm) and H2M architects + engineers to provide turnkey services for a new granular activated carbon (GAC) treatment process. H2M was responsible

for the engineering design, accelerated permitting coordination with the NJDEP Division of Water Supply and Geoscience, and coordination for assembly and documentation of customized operation and maintenance (O&M) procedures during project startup. The new GAC filtration system was designed to be installed within the Arsenal's existing treatment system property footprint. This minimized the impact to existing plant operations and reduced project capital costs.

The new system was commissioned in May 2018 and permitted for a limited treatment capacity, based on the NJDEP's requirement for GAC systems. Subsequently, a waiver request was prepared by H2M and received approval from the NJDEP, to increase the new GAC system's treatment capacity up to 1 million gallons per day (MGD).

Annual Water Meter Replacement Program



Borough of Brielle

Brielle, NJ

Construction Cost: \$100,000 per year

SERVICES PROVIDED

Study Document Preparation
Field Research and Analysis
Design Development

Construction Administration
Construction Inspection



To ensure proper metering, economic water system operation, and help minimize unaccounted for water, H2M supports the Borough for its annual water meter replacement program.

The Borough of Brielle, NJ, operates a municipal public water system with several thousand retail metered connections. Regular replacement is required to ensure that accurate metering is provided in accordance with New Jersey State regulations and drinking water industry standards. To ensure proper metering, economic water system operation, and help minimize unaccounted for water, H2M supports the Borough for its annual water meter replacement program.

In H2M's role as Engineer of Record, we prepared the study documents necessary to support the Borough's response to Water Quality Accountability Act (WQAA) regulations, including ongoing upkeep of water infrastructure capital assets and

equipment necessary to support the ongoing operation and revenue security of the Brielle Water Department. This effort includes the field research and analysis necessary to annually update the Borough's Water Supply Asset Management Plan (AMP), and – pursuant to AMP outputs – an annual update of its Capital Improvements Program (CIP).

As a component of the CIP, through detailed equipment research and vendor interaction, H2M has assisted the Borough in setting a replacement return horizon of 20 years on all retail meters, and has assisted the Borough in specifying new meter devices and Meter Transceiver Units (MXUs), and annually reviews meter read data, and re-validates the meter replacement line item in the CIP.

Pumping and Storage Improvements



Borough of Brielle

Brielle, NJ

Construction Cost: \$5.5 million

SERVICES PROVIDED

Alternatives Analysis

Design

Permitting

Funding Coordination

Bid Services

Construction Administration

Construction Inspection

Commissioning/Startup

Operations Coordination

H2M worked with the Borough to re-feed the High Service Zone from Low Service, via pumps re-driven using VFDs.

The Borough of Brielle operates a public water system composed of two pressure gradients – Low and High Service Zones. Each gradient is served by a steel water storage tank. In 2017, the High Service Zone storage tank exhibited a profound mechanical failure that precipitated a series of engineering and operational responses meant to stabilize system operations. H2M worked with the Borough to re-feed the High Service Zone from Low Service, via pumps re-driven using VFDs (for domestic service). Additionally, H2M designed and managed through construction a large-capacity interconnection to a neighboring PWS for emergency service (i.e. fire and main break response), including pressure sustaining valve. The interconnection crossed a state highway right-of-way and was constructed via horizontal directional drill. Next H2M managed selective demolition of the existing High Service tank on behalf of the Borough, and managed design, bid, and construction for rehabilitation of key infrastructure assets in the Low Service Zone, to stabilize operations. These improvements included rehabilitation of an existing 500,000 gallon steel ground storage tank, reconstruction of the transfer pumps feeding from the Low to High Zones, and reconstruction/simplification of the yard piping and control valve arrangement at the Low Zone groundwater treatment plant. Finally, H2M designed and managed the bid and funding process for replacement of the failed High Service elevated storage tank, and is currently active in construction management for that tank, with a capacity of 300,000 gallons. The project required detailed, multi-phase coordination of control set points, hydraulic analysis, and yard piping re-configurations for both zones, related to different stages of construction.



Water System Improvements



Borough of Brielle

Brielle, NJ

Construction Cost: \$5 million

SERVICES PROVIDED

Design Development

Permitting

Funding Acquisition

Bidding

Construction Administration and Inspection



H2M was selected for the replacement of an elevated steel water tower, and optimization improvements to an existing groundwater treatment plant and pumping station.

The Borough of Brielle, NJ, operates an array of municipal drinking water infrastructure requiring a variety of upgrades. H2M was selected for the replacement of an elevated steel water tower, and optimization improvements to an existing groundwater treatment plant and pumping station.

H2M proposed to rehabilitate an existing steel ground storage tank, simplify and renew yard piping connecting wells, tanks, and pumping, provide better flow control via renewed valving constructed in a safely accessible vault, and replacement of an existing elevated water storage tank which had recently exhibited a profound mechanical failure.

We managed detailed design, permitting, funding acquisition via the NJEIT/NJ Infrastructure Bank, public bidding, construction administration, and construction inspection. Additionally, interim emergency pumping improvements were coordinated by H2M, to address pressure maintenance requirements while the Borough's failed tank was reconstructed. All phases were addressed in a time-constrained manner, to allow the Borough to return to reliable water service after failure of its original elevated water storage tank.

The project is ongoing in the construction phase. The ultimate result will be safe, reliable drinking water for this suburban Jersey Shore municipality.

Hydraulic Evaluation



Borough of Caldwell

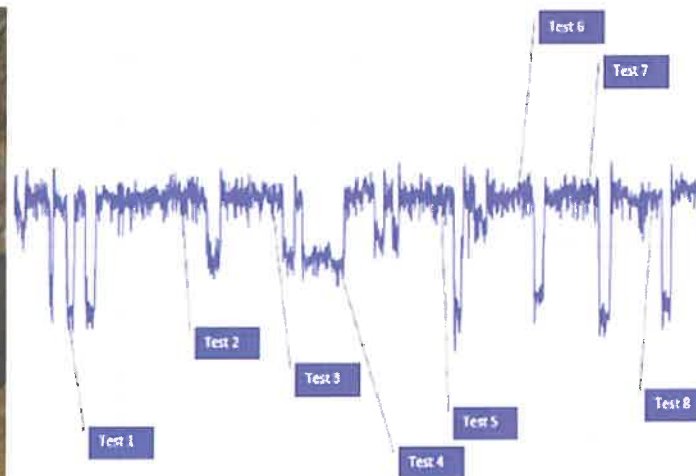
Caldwell, NJ

Construction Cost: N/A

SERVICES PROVIDED

Hydraulic Modeling

Hydraulic Evaluation



We evaluated the Borough's water distribution system to determine the existing hydraulic capacity for fire protection. Based on the results of the evaluation, our team recommended water distribution system improvements to obtain desired fire hydrant flows and pressures.

We were retained to evaluate the Borough's water system to determine whether there were areas whose fire protection capabilities would be benefitted substantially from water main replacements/upgrades. To compare different areas objectively, the Insurance Services Office (ISO) recommendations were chosen as a benchmark. The ISO is a private company that provides statistical insurance risk information that is used in underwriting to calculate insurance premiums. One of ISO's functions is rating communities for fire insurance purposes. The rating is based on receiving and handling fire alarms, the fire department, and the water system. For the water system component, ISO has established recommendations for available flow from fire hydrants for different areas, e.g. residential, commercial, etc. These recommendations were used to assess Caldwell's water system.

The Borough of Caldwell obtains all of its water from the Borough of Essex Fells. Caldwell's water system is divided into two hydraulic service zones. The high service zone is supplied by two interconnections with Essex Fells and the low service zone is supplied by four interconnections with Essex Fells and two wells.

A 12-inch diameter water main runs through Caldwell and carries the bulk of the water for fire protection. Water to the fire hydrants in adjacent areas is distributed through 4-, 6-, and 8-inch diameter water mains that connect to the 12-inch diameter water mains.

To evaluate the water system, flow tests were conducted at various locations throughout the Borough. Our team used the results of the flow testing to create a computer model of the water system. The model was then used to identify improvements that could be made to increase the hydraulic capacity throughout the Borough to meet ISO recommendations for fire protection.

Separate from the hydraulic evaluation, the Borough had a plan in place to replace undersized water mains in several locations. Through our analysis, we recommended several projects to assist in identifying priority improvements. These projects were established on the basis of cost and effectiveness. Our team met with the Fire Department and provided them with a copy of the findings, which they can use to assist in planning responses for the interim until the improvements are constructed.

Zone Water System Upgrade



Borough of Ringwood

Ringwood, NJ

Construction Cost: \$86,000

SERVICES
PROVIDED

Engineering
Radio Study

Construction Phase Services



The Borough of Ringwood needed to upgrade the Upper Ringwood Zone Water System. The Upper Ringwood Zone is located at the far end of the Ringwood system and depends upon supply from wells and a Passaic Valley Water Commission connection situated in the southern lower pressure zone.

The Upper Ringwood Zone provides storage in the zone and boosts the chlorine residual by sodium hypochlorite injection where water enters the zone. As a consequence of the rugged mountainous terrain, the supply to the zone is from a higher pressure gradient zone. Water flows through an aerial pipe section over a tributary to the Wanaque Reservoir and then to a pressure reducing valve chamber. Due to age and the high pressures upstream of the pressure reducing valve it was determined that new facilities with modern control and data acquisition was appropriate for a water system upgrade.

Work performed under this contract included communications studies to coordinate the transfer of information for control of operations in the zone, environmental permits from the New Jersey Highlands Council, and design documents for a Safety Panel Control Building. The building was designed to contain chemical mixing facilities, chemical feed pumps, chlorine residual continuous sampler and a SCADA PAK system for local control and monitoring. Radio equipment was provided to monitor tank levels. A chemical injection chamber located near the building was rehabilitated to include a closed loop flow modulating valve, a new flow meter, a high capacity pressure reducing/sustaining

valve and control signals for the SCADA PAK system. The aerial pipeline was insulated, heat tape traced and fitted with temperature sensors with radio transmitters.

We incorporated a topographic map for the Municipal Building into a base map for the preparation of a Site Plan of Improvements. A radio study was also performed to establish antenna heights and directional orientation of radio equipment for communications between the proposed Safety Panel Control Building site, the aerial pipeline and the Upper Ringwood 500,000 gallon water storage tank. We submitted an application to the New Jersey Highlands Council for a waiver from planning requirements on the basis of existing water utility replacement exemption.

Construction documents were prepared by H2M for use by Ringwood to solicit bids for the construction of the project and bid phase assistance to procure the services of a qualified water system contractor. We also provided contract administration, construction inspection, and commissioning consultation during the project startup and during the two year maintenance period.

Hydraulic Evaluation and Water Main Replacement



Borough of Spring Lake

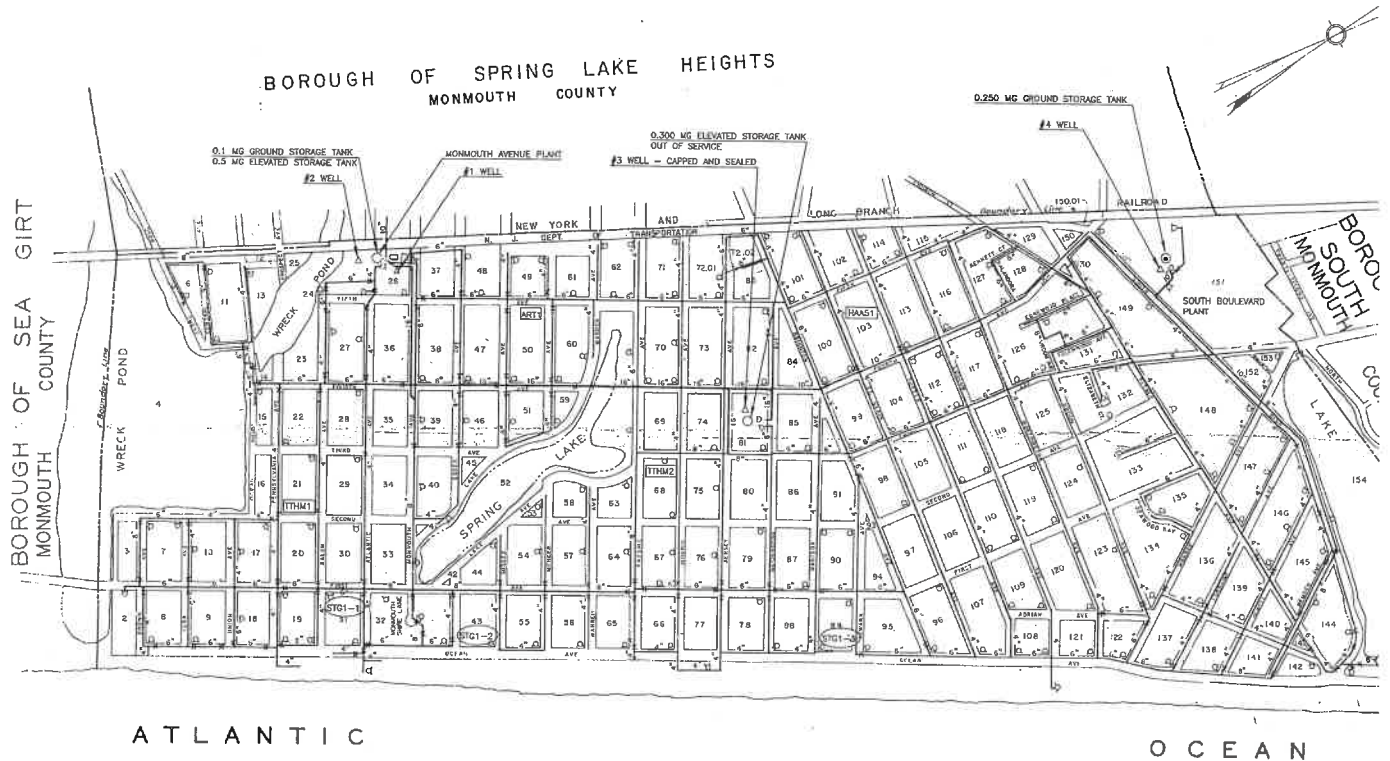
Monmouth County, NJ

Construction Cost: \$2 million

SERVICES PROVIDED

Water Supply Evaluation
and Assessment
Design Permitting
Bid Services

Construction Administration
Management
Financial Review



The Borough of Spring Lake needed to have a system-wide analysis of their water distribution system performed.

We performed a system-wide analysis of Spring Lake's water distribution system alongside the Borough Engineer and delivered a hydraulic model characterized by more than a dozen hydrant flow tests. After outputting a capital improvement plan for the nearly 100-year-old distribution system, we led the design and permitting effort for the first-prioritized capital project: two miles of

the new 12" distribution main in the right-of-way of CR18, locally known as Ocean Avenue.

The water main basis-of-design was AWWA C900 PVC pipe, including scope for the transfer of more than 100 residential services, and coordination with NJDEP and Monmouth County Highways Department.

FEMA Funding Due Diligence & Program Benefit-Cost Analyses



Camden County MUA

Camden, NJ

Construction Cost: N/A

SERVICES PROVIDED

Wastewater Engineering
Facility Evaluation
Facility Planning
Administration

Collection System Capacity Analysis
Cost Estimates & Opinions



H2M is performing a masterplan review and due diligence for FEMA funding for CCMUA projects.

H2M was retained by CCMUA to perform a review of their masterplan and compare it for eligibility against the criteria established by the Federal Emergency Management Agency (FEMA) for various funding programs. The Camden County MUA owns and operates a large regional sanitary sewage collections, transmission, and treatment system, including all types of wastewater infrastructure.

Currently, H2M is reviewing CCMUA's comprehensive asset management plan and related capital program to assist Authority leadership in understanding federal funding opportunities for their major projects. This includes evaluation of current facilities as well as consideration of future planning. A special focus of this FEMA funding assessment are efforts predicted for high risk and/or susceptibility to natural disaster-related damages.

PFAS Treatment



City of East Orange Water Commission

Short Hills, NJ

Construction Cost: TBD

SERVICES
PROVIDED

Water Treatment Design

Construction
Administration



The City of East Orange owns and operates a Public Water System, nominally the East Orange Water Commission (EOWC), regulated under PWSID No. NJ0705001. H2M is supporting the City by responding to water quality challenges related to per- and polyfluoroalkyl substances, or "PFAS".

EOWC owns and operates 18 active production wells, arrayed in the following groupings:

- Canoe Brook Well Field
- Slough Brook Well Field
- Dickinson Well Field
- Braidburn Well Field

The effluent from these wells manifolds together to a single potable water treatment plant, at which the current primary treatment process is the removal of volatile organics, followed by disinfection. Some of the production wells have begun to exhibit detectable concentrations of PFAS compounds, specifically perfluorooctane sulfonic acid (PFOS), and perfluorooctanoic acid (PFOA). Through review with EOWC leadership, it was determined that the most efficient, cost-effective format for removal of these PFAS compounds is through a single treatment unit process added to the existing water treatment plant. This is in contrast to the potential for small, individual treatment systems being implemented at each production well or well field. The centralized approach leverages economies of scale, lowering

capital investment requirements, limiting City worker exposure to safety hazards during construction, and minimizing future operation and maintenance costs.

The objective for the proposed PFAS treatment system is a minimum capacity of 11 MGD. Potential treatment methods include granular activated carbon and anion exchange resin; H2M is reviewing water quality data, existing plant processes, site geometry, and regulatory requirements to evaluate appropriate vessel sizing and media to best suit the plant.

H2M is managing the civil/regulatory land use due diligence, detailed multi-disciplined design, permitting, and construction of these reactor systems, to be housed in a new permanent structure, sited at EOWC's existing water treatment plant campus located at 300 Parsonage Hill Road in Short Hills, NJ. The structure will be designed for simplicity of operation and maintenance, and appointed with architectural brick exterior finishes that integrate with the historic structural design of EOWC's original treatment plant.

USEPA Composite Correction Program CTA Report



City of Newark

Newark, NJ

Construction Cost: N/A

SERVICES PROVIDED

Capital Improvement
Planning
Water Systems

Water Treatment
SCADA System Design



H2M supported the City of Newark's involvement in the USEPA's Composite Correction Program (CCP) for Pequannock Water Treatment Plant by providing Comprehensive Technical Assistance (CTA).

The City of Newark owns and operates the Pequannock Water Treatment Plant, a facility serving not only Newark proper (the largest municipality in the State of New Jersey), but over a dozen neighboring municipalities. As a regional water supply facility, Pequannock is considered a critical piece of infrastructure. In that context, USEPA and NJDEP requested that the City undertake the EPA's Composite Correction Program (CCP), a rigorous system of steps intended to characterize and optimize the operation of individual surface water treatment facilities.

The CCP is composed of two major steps: first, the Comprehensive Performance Evaluation (CPE), which the City conducted previously to characterize existing conditions. H2M performed the second step, a Comprehensive Technical Assistance (CTA), and entails a transition from understanding existing conditions to recommending approaches to update the configuration of the plant (capital improvements) and its modes of staffing and operation (operational optimization).

The project evaluation scope included the Pequannock Water Treatment Plant campus, plus its intake at the Charlotteburg Reservoir, its raw water screening facilities, and its bulk chemical storage and feed unit processes (all located off-campus). H2M undertook a complete review of alternatives to raise Pequannock's operating standards and systems resilience to meet or exceed modern standards. The result was a comprehensive report, reviewing all plant resources and sub-systems, and a narrative of improvements characterized by capital cost, operating cost, and order of priority.

The City expanded H2M's scope to include a subject-matter deep-dive to review the causes of disinfectant byproduct formation and issue recommendations for mitigating and minimizing same. The project was one of the major milestones in the City's revitalization and reinvestment in its public water system. The effort was completed on schedule and within budget.

Iron Removal & Chemical Feed System Design



Monroe Township Utility Department

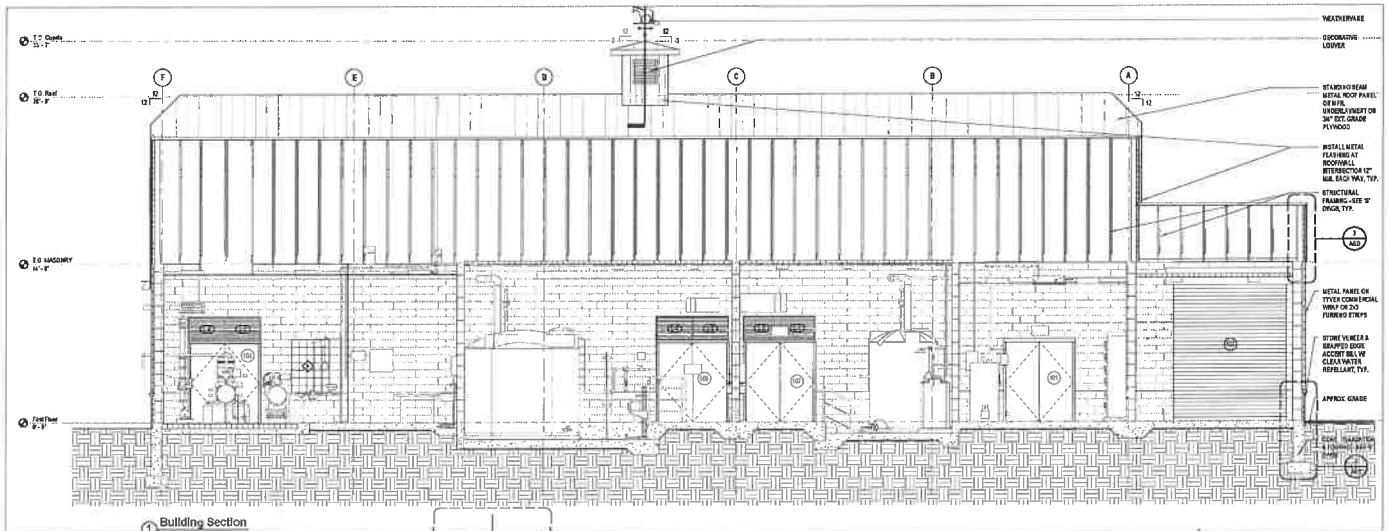
Middlesex County, NJ

Construction Cost: \$8.3 million

SERVICES PROVIDED

Design
Permitting
Bid Services

Construction Administration
Construction Inspection



Due to an increasing system demand from recent population growth and a decreased reliance on bulk water purchases to meet its daily production targets, MTUD commissioned H2M to design a new groundwater public supply well facility.

After the construction of a test well, MTUD determined the well water contained elevated levels of iron and manganese. Iron is an aesthetic concern, but recently even low concentrations of manganese has been deemed to exhibit a health impact.

H2M specified the use of a filtration media coated with manganese dioxide to be used in pressure filtration vessels, which will reduce the iron and manganese levels below the finished water goal concentrations (MCLGs) of 0.3 mg/L and 0.05 mg/L for iron and manganese. Due to the high levels of iron, careful consideration was made to optimize the frequency of filter backwashes necessary to keep the filters in peak operating condition. H2M provided full civil, mechanical, architectural, HVAC, plumbing

electrical, and controls design services; permitting coordination, bid phase services, and construction administration and inspection services.

The new facility consists of a new 2.16 MGD well pump and motor, iron and manganese removal pressure filtration vessels, pre-filter oxidation and pH adjustment chemical feed systems, post-filter disinfection and pH adjustment chemical feed systems, a corrosion inhibitor chemical feed system, a chlorine contact chamber, and filter backwash water storage and recycling facilities. The site and treatment system were both designed to include provisions for the installation of a second well for a total treatment capacity of 3.6 MGD.

Groundwater Treatment Facility Rehabilitation



New Jersey American Water

Bound Brook, NJ

Construction Cost: \$3.5 million

SERVICES PROVIDED

Alternatives Analysis

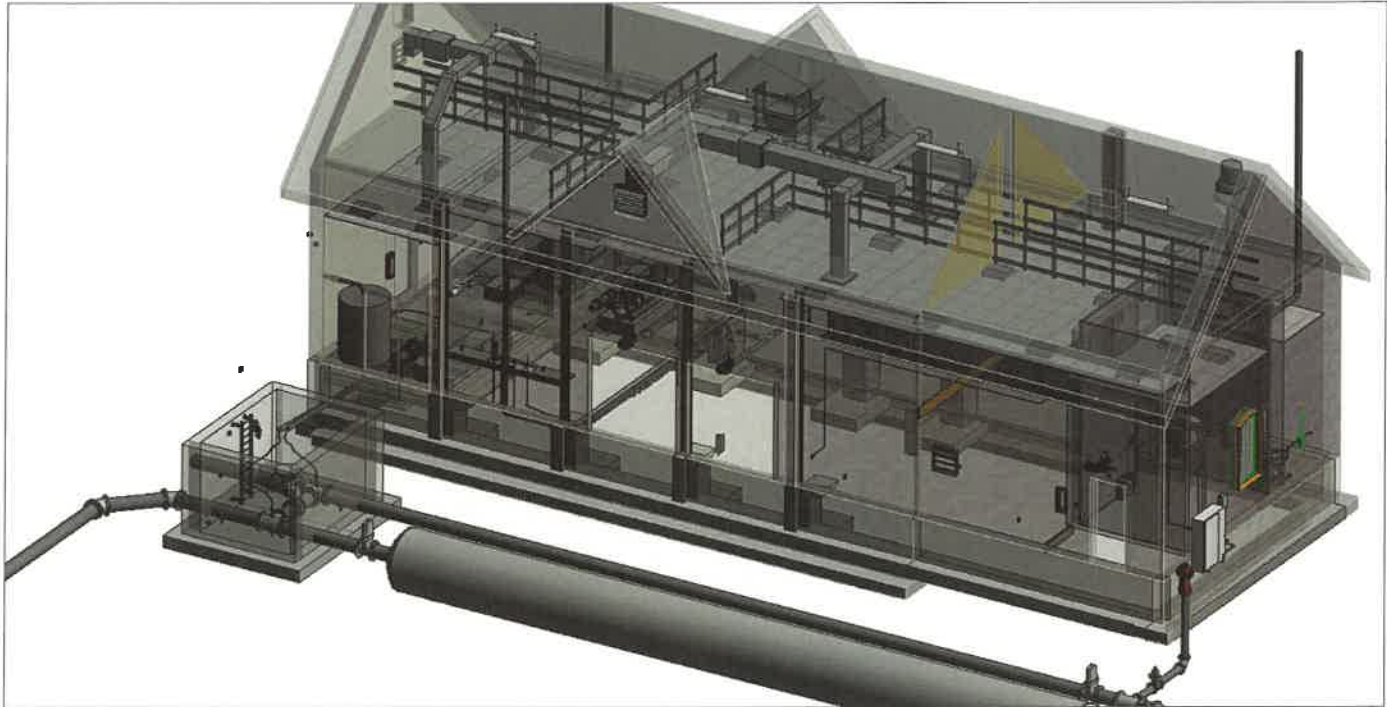
Design

Permitting

Bid Services

Construction Administration

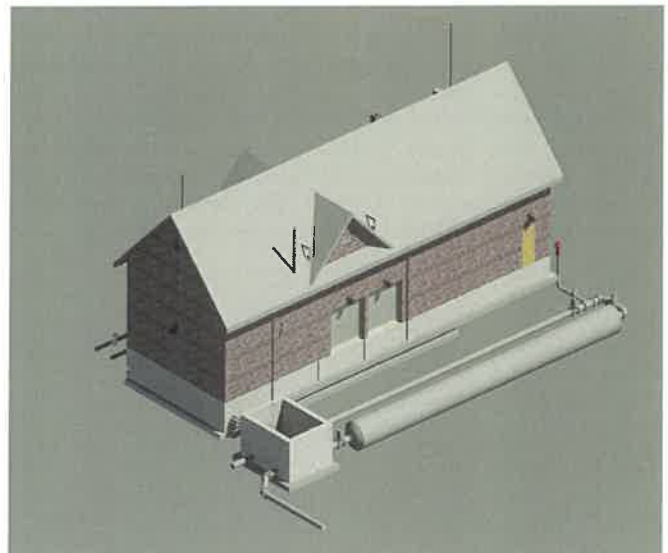
Construction Inspection



Previously Mountain Station's groundwater treatment facility used an ion exchange process to remove hardness, but due to the low production yield of the three wells on-site this method proved to be cost prohibitive.

H2M's design called for rehabilitation of the three wells and replacement of their pumps and motors; removal of all existing treatment plant process equipment; new yard piping; design of sodium hypochlorite and ammonium sulfate chemical storage and feed systems; design of a chlorine contact chamber, and approximately one mile of transmission main to blend the high-hardness plant effluent in a 42 inch diameter transmission main.

After the complete architectural, structural, and building systems rehabilitation of the early 20th century structure, new electrical and control systems, and the additional function as a transfer station between two pressure gradients; NJAW will save thousands of dollars annually with reduced operational costs.



Addition of Microfiltration Unit Process



New Jersey American Water

Colts Neck, NJ

Construction Cost: \$6 million

SERVICES PROVIDED

Planning
Treatment Design
Permitting

Bidding
Construction Administration
Start-up and Operations



NJAW's Coastal North Service Area requested that H2M review a range of options for supplementing their 80 MGD firm capacity.

New Jersey American Water (NJAW)'s Coastal North Service Area requested that H2M review a range of options for supplementing their 80 MGD firm capacity (spread across three surface water plants and many wells), to assist in mitigating the risk of loss of system pressure during peak demand days in this busy Jersey Shore region with a spiking service population during the summer months. After evaluating the three surface water plant campuses for layout space, line power capacity, accessibility, and staff qualification for operations and maintenance, the Swimming River Treatment Plant (originally 36 MGD capacity) was selected as the best site for process capacity expansion. H2M then transitioned to treatment technologies review – after extensive evaluation recommending Microfiltration as best available technology.

H2M provided a detailed design, permit coordination, and assisted NJAW in bidding the work to a pre-qualified general contractor. We also assisted NJAW in construction administration, inspection, and startup/commissioning.

Screening and Grit Facility Improvements



Township of Parsippany-Troy Hills

Parsippany, NJ

Construction Cost: \$3.03 million

SERVICES PROVIDED

Prepare Engineering Report
Mechanical, Structural and
Electrical Design

Construction Administration
Construction Inspection



We prepared an engineering report and bid documents for improvements to the screening and grit facilities at the Township of Parsippany-Troy Hills Wastewater Treatment Plant.

The engineering report described existing conditions, evaluated the existing screen and grit facilities based on the applicable design standards as indicated in the New Jersey Administrative Code Subchapter 23 (NJAC 7:14A-23.15 and .16), evaluated and made recommendations to improve the existing processes and presented a cost opinion. As part of the engineering report, screens from five manufacturers were evaluated. Due to the age of the Blower and Pump Building, the results of an XRF lead paint survey and a survey for asbestos containing materials was included in the report. The 16 million gallons per day WWTP currently operates a single mechanical screen on the first of the four active channels to the influent pump station wet well. A manually cleaned bar rack is utilized on the fourth channel. An out of service comminutor in the third channel needed to be removed. Two new mechanical screens were installed. The upper portion screens were located in a new room created at

grade level in the headworks building. A washer/compactor was also installed to transport the screenings out of the room to a roll-off container.

Screened influent wastewater is conveyed to the two aerated grit chambers. The drive system for the grit conveyors in each chamber was not in service and there were operating issues with the existing pumps. The improvements to the grit chambers include installation of new baffles, grit conveyors and grit pumps. New grit classifying and washing equipment were installed in a new FRP building adjacent to the grit chambers. Compared to the former location, this reduced the distance in piping and the need to operate a grit conveyor.

During construction, we provided construction administration and periodic construction inspection services.

Asset Management Planning



Passaic Valley Water Commission

Passaic County, NJ

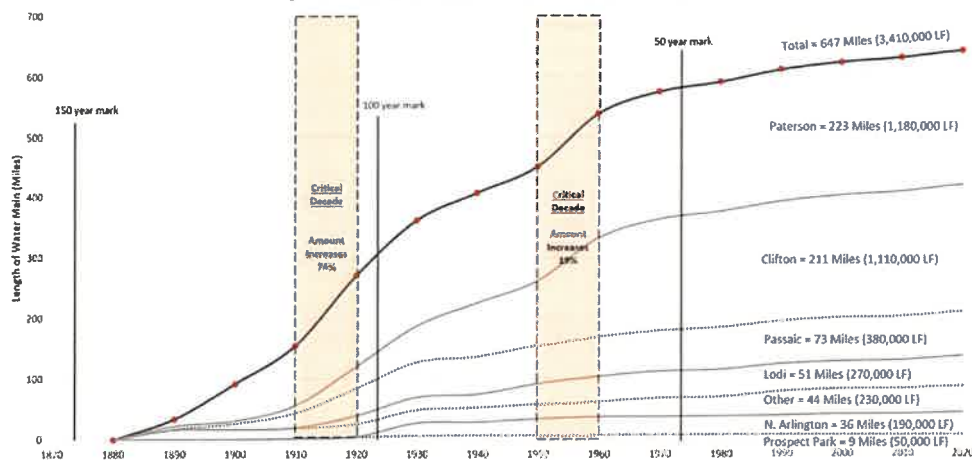
Construction Cost: N/A

SERVICES PROVIDED

Asset Inventorying
Asset Management Planning
Cost Estimating

Data Analysis
GIS and GPS

Figure 1A - Cumulative Installed Water Main Length Over Time



◆ Distinguished Award from ACECNJ 2024

H2M analyzed water main physical and operational parameters using algorithms developed in-house to determine risk factors and used system-wide objective criteria to develop a prioritized water main replacement program for 650 miles of pipe, forming the framework for an accelerated linear asset renewal program.

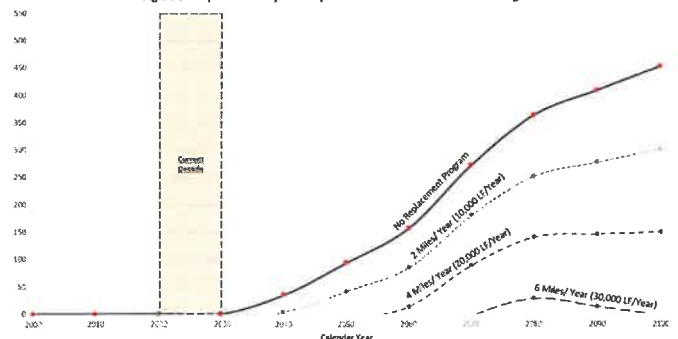
H2M developed a NJ Water Quality Accountability Act (WQAA)-compliant Asset Management Plan (AMP) for Passaic Valley Water Commission three water distribution systems in northern NJ. The AMP formed the framework for PVWC's accelerated linear asset renewal program.

Preparation of the AMP began by updating PVWC's GIS database to include water main physical and operational parameters and GPS field work to identify transmission main access and encroachment concerns as well as distribution system pressure zone boundaries.

The AMP was prepared through a desktop study that used existing and new information stored in a GIS data sets that allowed for decision trees. The study included water main characteristics such as water main age, material, surrounding soil type, previous failure history, and use. These characteristics were used to assign a primary criticality score, Asset Risk Exposure Assessment (AREA) rating, to each GIS pipe record. A secondary criticality score unrelated to risk, Quality of Service Rating (QoS), was developed from ancillary factors, including antiquated hydrants, lead water service line replacements, inoperable valves, water quality concerns, water age concerns, and customer complaints.

Pipe records in GIS were then grouped into replacement projects based on PVWC's typical project length, similarity of AREA ratings, and geographic location (e.g., proximity to similarly ranked pipelines). Each project was then ranked based on the highest AREA rating of any of the individual pipe segments to create a prioritized water main replacement program list and transmission main renewal/reinforcing program list. Project costs were then assigned for budgeting the linear asset program.

Figure 2 - Replacement Cycle Compared with Forecasted Water Main Age



Multi-System WQAA Evaluations & Reports



Southeast Monmouth MUA

Various Locations, NJ

Construction Cost: N/A

SERVICES PROVIDED

Water Resource Development

Water Resource Management

Water Systems

Capital Improvement

Planning

Distribution System



H2M performed multi-system WQAA evaluations and report documents maintenance for the Southeast Monmouth MUA.

As engineer-of-record for the Southeast Monmouth MUA, H2M was retained by four of the five member municipalities to compose the baseline asset management plan, infrastructure inventory, and related capital improvements plan, in accordance with the Water Quality Accountability Act (WQAA) guidelines promulgated by NJDEP.

H2M compiled a comprehensive inventory and conditional assessment for all of the potable water infrastructure assets for the Boroughs of Sea Girt, Spring Lake, Brielle, and the Township of Wall. These municipalities were required by law to then perform a risk analysis on the various operating assets supporting their respective public water systems, and submit documentation characterizing their priorities for capital improvements to meet or exceed the requirements of the law.

In addition, H2M supported these municipalities with GPS geolocation of point assets (valves, hydrant assemblies) in their distribution systems, and compiled GIS mapping to support the capital planning process.

H2M composed these reports and supported each municipality in its annual update of same documents, as part of the preparation process for annual re-certification of WQAA compliance.

Projects were completed on time and within budget. This effort resulted in three consecutive years of regulatory compliance for the municipalities in-question, and a greater understanding of both the composition and areas of risk associated with public water system management.

Storage Tank Rehabilitation



Township of Parsippany-Troy Hills

Construction Cost: \$846,600

SERVICES PROVIDED

Condition Assessment
Tank Rehabilitation Design
Regulatory Approvals

Construction Administration
Construction Inspection



The Township's tank was exhibiting signs of wear and required updates to extend its usable service life.

H2M performed a series of repairs to the Parsippany-Troy Hills Brooklawn Water Storage Tank — a 2.0-million-gallon steel-welded ground storage tank constructed in 1971 by Chicago Bridge & Iron Co. In addition to a tank overflow pipe without an air gap and antennae and grounding cables without conduits, H2M addressed steel corrosion on the chime, delamination of the exterior coating, exterior and interior painting needs, and various other metal tank components requiring repair and improvement. The tank is 75 feet in diameter, 65 feet in height, and has an ellipsoidal roof with an unbroken, curved transition from its shell wall.

H2M's scope of services included a Present Condition Evaluation (PCE), a comprehensive evaluation of the condition and estimated remaining service life of the interior and exterior coatings systems; a regulatory compliance check for configuration and composition of all mechanical accessories, process piping, and valving; and an AWWA/ANSI standards comparison to assess the composition and condition of the tank's structural components. Based on the results of these conditional assessments, H2M developed rehabilitative design improvements and managed the implementation of these improvements through the bidding and construction phases.

Ground Storage Tank Rehabilitation

H 2
M

Veolia

Ridgefield, NJ

Construction Cost: \$1 million

SERVICES
PROVIDED

Condition Assessment

Tank Rehabilitation Design

Construction Administration

Construction Inspection



At the request of Veolia., H2M performed a structural and coating systems evaluation of two 5.0 MG ground storage tanks, located on Pleasant View Terrace West, adjacent to State Route 63.

The existing interior and exterior coatings had reached the end of their expected service lives and were exhibiting characteristics consistent with an aged coating. Structural concerns were observed due to paint blisters and delamination, and rusting of structural steel components. The exterior primer coat was also found to contain lead, therefore any rehabilitation would have to be considered a lead abatement project.

We recommended that all existing interior coatings be removed by abrasive blasting and recoated utilizing modern, high-performance coatings. Considerable structural modifications were also required on the interior of the tanks due to severe corrosion, base metal loss, and failed structural members. The

corrosion and base metal loss were so significant that some of the roof members had completely failed, while many of the remaining support roof rafters were no longer providing adequate support of the tank roofs.

Given the site constraints and location, the project was designed with three surface preparation options (conventional blasting, robot blasting, and ultra high water jetting). Ultimately robot blasting was selected due to its cost savings since a conventional containment system is not required. Throughout this project's construction, we provided contract administration and construction observation services.

Ground Storage Tank Rehabilitation



Veolia

Owego, NY

Construction Cost: \$463,000

**SERVICES
PROVIDED**

Contract Administration

Construction Inspection

Evaluation

Design



At the request of Veolia, H2M performed a structural and coating systems evaluation of the 1.0 MG ground storage tank located 5 on Bodle Hill Road, adjacent to a Lockheed Martin Research and Testing Facility.

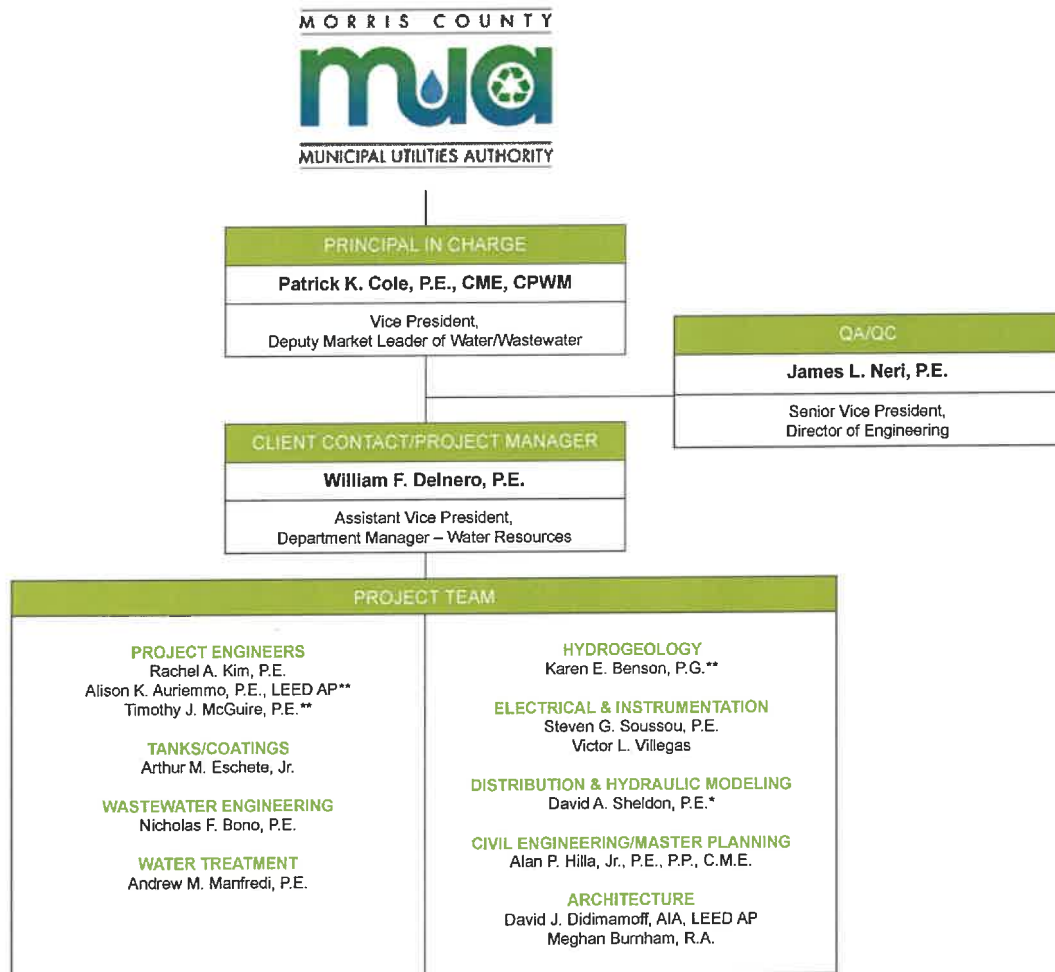
The existing interior and exterior coatings had reached the end of their expected service lives and were exhibiting characteristics consistent with an aged coating. Structural concerns were observed due to paint blisters and delamination, and rusting of structural steel components. The exterior primer coat was also found to contain lead, therefore any rehabilitation would have to be considered a lead abatement project.

Given the tank's condition, we recommended that all existing coatings be removed by abrasive blasting and recoated utilizing modern, high-performance coatings. In keeping with the Tioga County Health Department fugitive emission requirements, full containment and air monitoring was required for the exterior surface preparation and coating application. To take the tank

out of service to perform the rehabilitation work, which provided critical system pressure and fire flow to the adjacent Lockheed Martin Facility, the owner installed a temporary booster pump facility to maintain the pressure and fire flow capabilities of the tank. The contractor utilized a conventional curtain containment type system in accordance with AMPP Class 2A. Throughout this project's construction, we provided contract administration and construction inspection services.

In conjunction with the project, we were required to coordinate all construction activities with the owner as well as Lockheed Martin, which were concerned that construction actions would adversely affect their facility.

The successful completion of a project requires a diverse pool of experienced personnel capable of performing tasks within their area of expertise. H2M's management and project managers are also aware that the success of any project is dependent upon the close cooperation required between the H2M staff and MCMUA personnel. The proposed organization of personnel and resources is intended to bring together a team of professionals that can focus on project objectives as well as respond to unanticipated circumstances or issues.



* - Licensed in Other States



Resumes for the above referenced key personnel are provided following this page.





Patrick K. Cole P.E., CME, CPWM

Vice President, Deputy Market Director of Water/Wastewater



With 25 years of experience, Mr. Cole is an H2M Vice President and the firm's Deputy Market Director of Water/Wastewater. He leads H2M's efforts in the water and wastewater markets in New Jersey. Mr. Cole's areas of personal practice expertise lie in the optimization of treatment processes, distribution system hydraulic analysis, water quality troubleshooting and construction contract administration. He is a past Chair of the AWWA NJ Section, on the Board of Trustees, and a current contributor to the following AWWA Manual of Practice Workgroups: M31- Distribution System Requirements for Fire Protection; M64- Aeration and Air Stripping.

Additionally, Mr. Cole is a graduate of the Institute in Drinking Water Treatment certification program conducted by UMass Amherst. He typically acts as engineer of record and/or signatory engineer in responsible charge of all phases of project delivery. An example of Mr. Cole's work includes the 2013 Steel Tank Institute's Tank of the Year, a 1.5MG hydropillar delivered in a design-build project format.

Education

M.S., Civil/Environmental Engineering;
Rutgers University

B.S., Mechanical Engineering; University
of Delaware

Institute in Drinking Water Treatment; UMass
Amherst

Licenses/Certifications

Professional Engineer: NJ, NY

Certified Municipal Engineer: NJ

Certified Public Works Manager

Offices Held

AWWA-NJ, Section Chair, 2022-2023

AWWA-NJ, Member, Board of Trustees,
2018-Present

AWWA National, Distribution and Plant
Operations Division, Trustee 2012-2015

Memberships

American Water Works Association

Water Environment Federation

National Fire Protection Association

Honors

NSPE NJ Chapter, 2025 Outstanding
Professional Engineer

AWWA NJ Fresh Ideas Award, 2007
Next Generation Award, 2009

Steel Tank Institute: 2013 Tank of the Year
(Signatory Engineer)

Publications

AWWA Manual of Practice M32, Co-Author,
5th Edition (Pending Publication)

AWWWA Manual of Practice M64, Co-Author,
1st Edition

AWWA Manual of Practice M68, Co-Author,
1st Edition

Selected project experience

- Township of Parsippany-Troy Hills Replacement of Well No. 20; Parsippany, NJ: Principal-in-Charge overseeing the team designing, and permitting a replacement well and water treatment plant of matching capacity to the existing Well 20, with effluent treated to the standards of the NJ State and Federal Safe Drinking Water Acts.
- Southeast Monmouth Municipal Utilities Authority (SMMUA) Northwest Wall Infrastructure Improvements; Wall, NJ: Principal-in-Charge for the design of a new pressure zone to support the SMMUA's surface water treatment plant. The project includes approximately 1,600 feet of new transmission main; installation of four pressure reducing valves, one check valve, and one flow meter vault throughout the Wall system; rehabilitating the existing Route 34 well facility's electrical gear, replacement of booster pumps and motors; and construction of a two million gallon ground storage tank and adjacent three-pump booster station.
- Township of Wall General Consultation; Wall, NJ: Principal-in-Charge for as-needed support to the Township of Wall Zoning Board of Adjustment, as well as the Township's water resources and sewer projects.
- North Jersey District Water Supply Commission (NJDWSC) Lagoon Decant Tower Discharge Design-Build; Wanaque, NJ: As a subconsultant to Stone Hill Construction, served as Project Director for the design and construction of a new water treatment facility to house electrocoagulation process (EC), dissolved air flotation (DAF), and activated filter media (AFM) filtration systems, as well as a new decant tower. The NJDWSC has a 10 surface-acre Lagoon which it uses for Water Treatment Residual (WTR) storage. The Lagoon is the regulated unit for a New Jersey Pollutant Discharge Elimination System (NJPDES) Permit for Discharge to Surface Water (DSW). The current decant discharge from the Lagoon is discharged via a Decant Tower at the southern end of the Lagoon to the Wanaque Reservoir. Additionally, an overflow structure discharges to a tributary of the Post Brook. Part of the DSW permit condition requires the decant discharge from the Lagoon to comply with a Whole Effluent Toxicity (WET) test for Ceriodaphnia by March 2015. Regulated testing and special testing by WET methodologies currently do not meet the future WET NJPDES Permit level of 55% survival or reproduction, whichever is lower. To meet WET requirements, a pilot study was initiated to evaluate several technologies to identify the best process option.
- Brick Township Municipal Utilities Authority (BTMUA) GAC Improvements at William Miller Jr. Water Treatment Plant; Brick, NJ: Project Director responsible for the design, permitting, and bidding for new GAC vessels to treat PFOA at the William Miller Treatment Plant in Brick Township, NJ. The Metedeconk River, BTMUA's source water, exhibited the highest concentration of PFOA of any raw water source tested within the state in 2009 by the New Jersey Department of Environmental Protection (NJDEP).
- Borough of Ringwood Public Water System Operational Support and Regulatory Compliance Coordination; Ringwood, NJ: Practice Leader responsible for review of the Borough's existing regulatory compliance communications and outstanding action items, review of daily procedures and analytical/reporting structures for water quality and pumpage, and regular interaction with the licensed operator of record regarding operational decisions.

Patrick K. Cole

P.E., CME, CPWM

Vice President, Deputy Market
Director of Water/Wastewater

- Borough of Ringwood General Water Support; Ringwood, NJ: Principal-in-Charge responsible for overseeing the update of the Borough's existing geographic information system (GIS) maps.
- Borough of Butler Reconfiguration of the Butler Water Treatment Plant; Butler, NJ: Principal-in-Charge responsible for leading design, permitting, and bidding services for the expansion and modernization of the Butler Water Treatment Plant.
- Borough of Chatham General Consultation; Chatham, NJ: Principal-in-Charge for as-needed support for the Borough's water resources and sewer projects.
- Borough of Highlands General Consultation; Highlands, NJ: Principal-in-Charge for as-needed support for the Borough's water resources, sewer, and special projects.
- Veolia Well Station No. 56 and 82 PFAS Upgrades Design-Build; Rockland County, NY: Project Director for the design-build delivery of upgrades to two well stations – Wells No. 56 and 82, known respectively as the Willow Tree and Eckerson Stations – that had begun to exhibit contamination by PFAS substances. Work included planning, permitting, design, construction observation, start-up, testing, and commissioning.
- Monroe Township Utility Department (MTUD) Well No. 25 Iron Removal Plant Design; Monroe, NJ: Principal-in-Charge responsible for executive oversight of the design and permitting of a new groundwater public supply well facility, Well No. 25, North of Matchaponix Avenue, in Spotswood Manor. MTUD constructed Well No. 25, which was originally configured as a test well, and was converted into a potable production well. The site and treatment system were designed to include provisions for the installation of a second well.
- New Jersey Department of Environmental Protection (NJDEP) Trenton Water Works (TWW) Technical, Managerial, and Financial Capacity Report; Trenton, NJ: Principal-in-Charge responsible for executive oversight of a comprehensive technical, managerial, and financial (TMF) capacity report for the Trenton Water Works (TWW) and the City of Trenton. Regulatory actions taken by the NJDEP against TWW and the City of Trenton including notices of noncompliance, notices of violation, and financial forbearance on the City's outstanding Infrastructure Bank loans have led to the issuance of a Unilateral Administrative Order (UAO), granting the NJDEP operational oversight of the TWW treatment and distribution systems until all issues are corrected. As part of the UAO, NJDEP solicited bids for assistance in various aspects of their corrective actions; one such portion of work was the preparation of a TMF report to document the condition of the TWW system and its management, ultimately informing its ability to maintain operation in both the near and future timeframes.
- New Jersey American Water (NJAW) Ranney Station Well No. 1A Emergency Replacement; Carneys Point, NJ: Principal-in-Charge responsible for executive oversight of the team that prepared design documents, permitted, and provided construction support for the emergency replacement of the failing Well No. 1A.
- Borough of Sea Girt General Consultation; Sea Girt, NJ: Principal-in-Charge for as-needed support to the Borough of Sea Girt for its water resources and sewer projects.
- Atlantic City Municipal Utilities Authority (ACMUA) Emergency PFC Treatment; Atlantic City, NJ: Project Director responsible for emergency PFC treatment. Due to firefighting drills held at the Atlantic City Airport, PFC levels are high in the system's groundwater and surface water supplies. Designed a system to bring the ACMUA into compliance with new PFC contaminant levels implemented in 2021. Rapid treatment on an urgent timeline was necessary to ensure compliance within the year.
- Atlantic City Municipal Utilities Authority (ACMUA) Water Treatment Plant Evaluation and Recommendations; Atlantic City, NJ: Project Director responsible for the development of short- and long-term recommendations for improvements to the ACMUA's main water treatment plant.
- New Jersey American Water (NJAW) Relief Study; Colts Neck, NJ: Project Director responsible for leading the relief study for the Jumping Brook Treatment Plant chlorine system and Swimming River Treatment Plant chlorine and ozone systems.
- Borough of Brielle Old Bridge Elevated Tank Replacement, Union Lane Ground Tank Rehabilitation, and Water System Improvements; Brielle, NJ: Practice Leader for the design, bidding, construction oversight and administration services for the construction of a new 300,000 gallon elevated storage tank at the Old Bridge tank site. The existing multichambered tank experienced a catastrophic failure that caused the upper bowl to fall into the standpipe portion of the tank. The resulting rapid drain down created a vacuum condition on the upper bowl roof causing its implosion.
- Jackson Township Municipal Utilities Authority (JTMUA) Evaluation and Design of a New Middle PRM Well; Jackson, NJ: Project Manager for the evaluation, design, and construction of a new back-up well. The well is screened in the Middle Potomac-Raritan-Magothy (PRM) Aquifer system, with a capacity of 2,000 gpm. The well serves as a backup groundwater source for the London Drive Water Treatment Plant.





William F. Delnero P.E.

Assistant Vice President,
Department Manager - Water Resources



Mr. Delnero has more than 15 years experience as a water resources engineer, wastewater engineer, and civil engineer. His expertise includes lead service line replacements, water main design, emerging contaminants treatment plant design, storage tank inspections, wastewater pump station design, and storm hardening/resiliency design. In addition, Mr. Delnero has managed several design-build projects.

Selected project experience

- Township of Wayne Indian Hills Water Storage Tank Rehabilitation; Wayne, NJ: Project Manager for rehabilitation of the existing 1.5 million gallon Indian Hills steel ground storage tank. The design included complete exterior painting removal, new coating system, and miscellaneous hot work upgrade items. The interior included spot blasting and spot painting, minor repairs, and miscellaneous hot work.
- Veolia Lead Service Line Replacement Program; Bergen and Hudson Counties, NJ: Project Manager for the construction administration and construction observation of over 2,200 water service verifications and replacement of more than 1,200 lead service lines.
- Veolia Distribution System Improvement Charge (DSIC); Bergen and Hudson Counties, NJ: Project Manager for the construction inspection, observation and closeout documents, including as-builts, of several water main replacement projects in North Bergen, Tenafly, Fort Lee, Ridgefield Park, Weehawken, Englewood, Teaneck, Union City, and Mahwah.
- Veolia DSIC; Bergen and Hudson Counties, NJ: Project Manager for the construction inspection, observation and closeout documents, including as-builts, of several water main replacement projects for the DSIC 2020 contracts, including projects in North Bergen and Leonia.
- Plainview Water District AOP Treatment at Plant No. 3; Plainview, NY: Project Manager for the engineering design, permitting, and construction administration for construction of a new treatment plant to remove 1,4-dioxane from drinking water.
- Plainview Water District AOP Treatment at Plant No. 7; Plainview, NY: Project Manager for the engineering design, permitting, and construction administration for construction of a new treatment plant to remove 1,4-dioxane from drinking water.
- Township of Hillsborough Municipal Utilities Authority Blackwell's Mills Wastewater Pump Station Replacement, Hillsborough, NJ: Project Manager for the design of the replacement of an existing wastewater pump station.
- North Jersey District Water Supply Commission Stone Hill Contracting Co., Inc. - Residual Treatment Facility Upgrades Design-Build; Wanaque, NJ: Project Manager for the design and permitting of upgrades the existing water treatment residuals processing at the North Jersey District Water Supply Commission's Wanaque Treatment Plant. Treatment improvements for this design-build project included replacement of transfer pumps, rehabilitation of gravity thickeners, polymer system, and two new dissolved air floatation systems.
- SUEZ New York/J. Fletcher Creamer PFAS Compliance for Willow Tree Well No. 56 and Eckerson Well No. 82; Rockland County, NY: Project Manager for the design, permitting and construction administration of new GAC filtration system to treatment well sites. This effort was completed as a design-build project.
- American Water Military Services Group/Keystone Clearwater Solutions Picatinny Arsenal Emergency PFAS Treatment Design-Build; Wharton, NJ: Project Manager for the design, permitting and construction administration for the design-build of emergency PFAS treatment at the Picatinny Arsenal.
- American Water Military Services Group/Keystone Clearwater Solutions Picatinny Arsenal Rehabilitation of Lift Station 165 Design-Build; Wharton, NJ: Project Manager for the design and construction administration for the design-build rehabilitation of a wastewater pump station. This effort was completed as a design-build project.
- American Water Military Services Group Base Wide Storage Tank Inspections; West Point, NY: Project Manager for the inspections of nine ground storage tanks at the U.S. Military Academy West Point.

Next →

Education

B.S., Civil Engineering; Stevens Institute of Technology

Licenses/ Certifications

Professional Engineer: NJ, NY

Memberships

American Water Works Association

William F. Delnero

P.E.

Assistant Vice President,
Department Manager -
Water Resources

- American Water Military Services Group Rehabilitation of Lift Station 302B; Wharton, NJ: Project Manager for the design and construction administration for the rehabilitation of a wastewater pump station at the Picatinny Arsenal.
- NYCDEP Green Infrastructure for Flushing Creek; Queens, NY: Project Manager responsible for project controls that included reviewing and managing the project schedule, managing deliverable submission, reviewing the resources allocated to complete a deliverable and managing the project budget. The project involved identifying potential sites, investigating, evaluating, and determining preliminary sites for green infrastructure within the New York City Department of Environmental Protection (NYCDEP) Priority Combined Sewer Overflows Tributary Area. The design team was responsible for performing the delineation of the Tributary Drainage Areas, developing ArcGIS files and maps, assisting with field investigations, and preparing preliminary location maps. Responsibilities also included management of a team of four engineers, attending monthly program meetings, and preparing the monthly reports.
- NYCDEP Wastewater Resiliency Program; New York, NY: Project Controls Manager for a project to implement flood hardening strategies for the DEP's infrastructure, to protect against future extreme weather events. Responsibilities included preparation of the program, Project Management Plan, Quality Management Plan, and Environmental Health and Safety Plan, managing project budgets, and managing all program controls and communications associated with the program, and the overall master schedule and individual contract schedules.
- NYCDEP Site-wide Flood Risk Assessment, Newtown Creek Wastewater Treatment Plant; Brooklyn, NY; Civil Engineer: Civil Engineer for the site-wide flood risk assessment of the NYCDEP's 310 MGD Newtown Creek Wastewater Treatment Plant (WWTP). Performed a flood risk analysis for the Newtown Creek WWTP, based on the updated 100-year FEMA Advisory Based Flood Elevation (ABFE) plus 32 inches. The project involved analyzing each building's potential flooding risk, based on the new flood elevation, and recommending adaptation strategies to minimize the potential impact of another significant storm event to minimize the plant's flood risk.
- NYCDEP Newtown Creek Waterfront Nature Walkway Phase 3; Brooklyn, NY: The Waterfront Nature Walkway created public access to a new shoreline park along Newtown Creek and Whale Creek canal in Brooklyn, NY. This space provides an important area for relaxation and recreation for the people of Greenpoint. The intent was to revitalize a neglected and under utilized waterfront site. Project included sustainable design elements such as surface and subsurface drainage and infiltration systems to capture and harvest the rainwater within the nature walk and provision of photovoltaic system. Responsibilities included the civil design of the Phase 3 extension of the Newtown Creek, WWTP Nature Walkway; including the development of a surface and subsurface drainage system, the extension of underground utilities, and assistance with the preparation of final project documents.





James L. Neri P.E., PMP

Senior Vice President, Director of Engineering



Mr. Neri serves as H2M's Director of Engineering, where he is responsible for leading the water, wastewater, and municipal structural disciplines with a primary focus on overseeing our overall water and wastewater discipline efforts. He has 30 years of experience as an environmental consultant, 23 of which he spent here at H2M, where he has been a respected leader. Most recently, Mr. Neri served as water resources discipline director and was responsible for the management, design, construction, and commissioning of water supply projects, including source development, wells, distribution systems, water treatment, and water storage facilities. He has also been the client manager for several of H2M's major water supply clients. As such, his duties include planning, engineering reports and studies, plans and specifications, and evaluating and designing new and/or modified water supply facilities, building systems, mechanical and pumping stations, control systems, and treatment systems.

Mr. Neri is responsible for being informed on emerging water quality and regulatory issues and has extensive experience in construction, groundwater and aquifer assessments, water quality, and regulatory requirements. Further, he has dedicated himself to H2M's overall Project Management Certification and Development program as an expert, instructor, and advisor to our project managers company wide.

Education

B.S., Environmental and Civil Engineering;
Cornell University

Applied Groundwater & Contaminant
Transport Modeling, Waterloo Hydrogeologic

Dynflow, Dyntrack, Dynplot Groundwater
Modeling Codes

Licenses/ Certifications

Professional Engineer: NY, NJ, CT, DE, FL,
HI, LA, PA, RI

Project Management Professional (PMP),
Project Management Institute (PMI)

AMPP C-2 Specifying and Managing
Protective Coatings Projects-Advanced

OSHA 10-Hour Construction Safety & Health

Memberships

American Water Works Association

Long Island Water Conference

Selected project experience

- City of Homestead Wittkop Park Water Treatment Facility Chlorination Project; Homestead, FL: Design work for a new chlorine building, second chlorine feed building, chlorine disinfection system, and site work at the Wittkop Park Water Treatment Facility. H2M is also providing Class 3 level estimates and providing support during the bidding and award phase.
- New York State Office of General Services (OGS) Water Tank Design, Inspection, and Testing Term Contract; Statewide, NY: Principal-in-Charge for H2M's Water Tank Design, Inspection, and Testing Term Contract with the OGS for projects on behalf of the New York State Department of Corrections and Community Supervision (DOCCS). Assignments include evaluation of existing water storage tanks; performance and monitoring inspections during construction of new tanks and rehabilitation of existing tanks; and final warranty inspections for new and rehabilitated water storage tanks.
- Garden City Park Water District Wellhead Treatment at Plant No. 8; Manhasset Hills, NY: Project Manager overseeing the design of an advanced oxidation process (AOP) and per- and polyfluoroalkyl substances (PFAS) treatment system at Plant No. 8 to address elevated contaminant levels, prompted by changes in New York State regulations on emergent contaminants.
- Liberty Utilities Indian and Arbor Hills Wellhead Treatment; Lewisboro, NY: Technical Advisor on the design of a treatment system to address elevated levels of contaminants at two small water systems, Indian Hills and Arbor Hills. The proposed treatment system is designed for the removal of uranium, combined radium and adjusted gross alpha, iron and manganese, and PFAS. The design at the Indian Hills site included a new glass-fused ground storage tank and booster station.
- West Hempstead Water District 1,4-Dioxane Removal at Plant No. 7, West Hempstead, NY: Technical Director and Client Manager for pilot protocol preparation, pilot, and County and State approval of treatment systems. Design and permitting of VOC and emerging contaminant removal system for 4.0 MGD plant, including two low pressure UV reactors; 3,000 gallon hydrogen peroxide tanks; four granular activated carbon vessels; mechanical piping chemical treatment systems, instrumentation and control systems; and rehabilitation of well pumps.
- St. George's Golf and Country Club Well Replacement; East Setauket, NY: Designing a deeper replacement well for the St. George's Golf and Country Club to improve irrigation water supply and eliminate elevated chloride levels. Prepared and submitted a permit application and engineering report for a deeper replacement well and an increase in withdrawal capacity from 800 to 1,300 gallons per minute.

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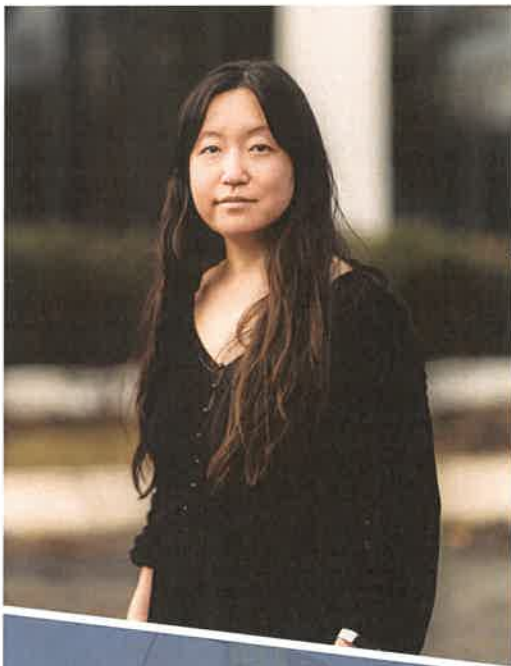
James L. Neri

P.E., PMP

Senior Vice President,
Director of Engineering

- Plainview Water District AOP Treatment at Plant No. 2; Plainview, NY: Client Manager and QA/QC Reviewer for the engineering report, design, and construction administration for construction of a new treatment plant to remove emerging contaminants (1,4-Dioxane, PFAS, and MTBE) from drinking water.
- City of West Palm Beach Sludge Drying; West Palm Beach, FL: The City's existing doghouse-style duplex pump system is supplemented by a portable diesel-fueled backup pump. The City procured a replacement duplex pump system for the doghouse-style duplex pumping system consisting of new end suction pumps packaged with a vacuum priming system. The City is currently in the process of replacing the existing end suction pumps with duplex submersibles. As such, the new procured packaged end suction pumps and priming system and controls are currently not expected to be utilized. Evaluated if the procured package duplex pump system could be used to assist with its residuals drying ponds. A trailer powered hydraulically driven submersible pump is currently used to move sludge between ponds to facilitate the drying process.
- City of West Palm Beach Backwash Recovery Basin Pump Station; West Palm Beach, FL: The City owns and operates a municipal water treatment plant (WTP), which includes a backwash recovery clarifier. The clarifier is served by an existing doghouse-style duplex pump system that is currently supplemented by a portable diesel-fueled backup pump due to the duplex system being unable to meet demand. Designed the replacement of the existing pump array with new pumps, to be configured as duplex submersibles. The pumping capacity will be increased from the existing nominal 1,000 gpm per-pump rating to 1,500 gpm 40' TDH rated capacity per pump.
- Water Authority of Great Neck North (WAGN) AOP Treatment at Watermill Lane; Great Neck, NY: Client Manager for the construction of a new AOP/GAC treatment building. The improvement was necessary to treat 1-4 dioxane, PFOA, and PFOS contaminants affecting three of the WAGN's wells.
- Brick Township Municipal Utilities Authority (BTMUA) Treatment and Pumping Improvements; Brick Township, NJ: As Technical Director, guided a team designing modifications to treatment and pumping processes at the BTMUA's drinking water treatment plant to address PFAS contamination and establish parameters for the addition of a small well system that had been impacted by PFAS.
- Dutchess County Water Authority Hyde Park Capacity Update; Hyde Park, NY: Technical Advisor for the preparation of an engineering report to update a system capacity analysis of Hyde Park's capabilities. The analysis was required to determine whether the system could handle additional demands. The report also included analysis of potential connections and three alternate routes for hydraulic and treatment capacity.
- Westchester Joint Water Works (WJWW) Rye Lake UV Treatment Facility; Harrison, NY: Technical Director and Client Manager for the development and submittal of design documents, engineering reports, bidding assistance, construction administration and inspection, as well as support for a 30 million gallon per day (MGD) UV treatment plant's start-up and commissioning at Rye Lake Pump Station in Harrison, NY.
- Village of Nyack Emerging Contaminant Removal; Nyack, NY: Treatment Process Lead responsible for the construction of a new treatment building and clearwell at the existing Nyack Water Plant to meet New York State water quality standards. The Village pursued a new treatment plan due to the detection of PFAS near the maximum contaminant level in their water supply.
- Plainview Water District AOP Treatment at Plant No. 7; Plainview, NY: Client Manager for the engineering report, design, and construction administration for construction of a new treatment plant to remove emerging contaminants from drinking water.





Rachel A. Kim P.E.

Senior Project Engineer - Water Resources



Ms. Kim is a water resources engineer with a focus on hydrogeology, complementing more than 15 years of experience in geotechnical work from earth retention and excavation support, anchors and tiebacks, structural underpinning, deep foundations, to ground freezing and ground improvement. Building on past expertise in dewatering and groundwater control for underground construction, Ms. Kim is responsible for the design and evaluation for potable water supply projects such as water well design, testing, and construction in addition to water treatment and distribution. Daily responsibilities include preparation of design plans and specifications, design calculations, permit applications, and data compilation and interpretation for engineering reports.

Selected project experience

- South Huntington Water District Test Well; South Huntington, NY: Prepared design and bid documents for the District to determine site viability and restore recently lost capacity to the District's system.
- Parsippany-Troy Hills Water Department Replacement Well; Parsippany, NJ: Preparing design documents and Green Acres permitting applications and developing treatment system design. Performed daily quality control inspections during installation and development of the test well and for the initial step-drawdown testing of the well. Oversight of 72-hour constant rate aquifer test, analysis of testing data, and preparation of aquifer test report.
- Liberty Utilities Replacement Wells; Massapequa, NY: Preparing design documents, engineering report, and permitting applications for the replacement of failing wells.
- Borough of Ringwood Regulatory Compliance Coordination; Ringwood, NJ: Assisting with coordination of the water quality parameter sampling plan, total coliform sampling plan, standard operating procedure manual, correspondence with the NJDEP, and other administrative requirements.
- Veolia Replacement Well; West Milford, NJ: Oversight of step-drawdown test and 72-hour constant rate aquifer test for a new replacement well. Analysis of test data and preparation of aquifer test report.
- Veolia Well Assessments; West Milford, NJ: Oversight of field work to test aging potable water wells. Data collected from step-drawdown tests was used to evaluate the need for rehabilitation or replacement.
- PSEG Arverne to Far Rockaway Discharge Permitting; Queens, NY: Design of dewatering systems to facilitate construction of an underground electrical transmission line. Assisted with preparation of permitting applications to regulatory agencies.
- St. George's Golf Course and Country Club; East Setauket, NY: Preparing design documents, engineering report, and permitting applications for the replacement of an irrigation well.
- Borough of Park Ridge Temporary PFAS Treatment System; Park Ridge, NJ: Design and permitting of a temporary treatment system to address MCL exceedances of PFAS at two existing well sites.
- Middletown WWTP, Belford, NJ: Field Engineer for the installation of five, 24-inch diameter wells to a depth of 50 feet, and four piezometers to facilitate excavation for plant expansion. Each well yielded approximately 150 gpm.
- CUNY Hunter College; New York, NY: Field Engineer for the installation of a 143-wellpoint dewatering system pumping approximately 400 gpm to facilitate excavation for campus expansion.
- Reed Street Bridge, Norwalk, CT: Field Engineer for load testing of three, 60-ton design load micropiles. Testing required the incorporation of two telltale rods in one test pile and six vibrating wire strain gauges in a second to qualitatively assess movement and load distribution within the test piles. A total of 161 micropiles were installed to support the new bridge structure.

Education

B.S., Civil and Environmental Engineering;
Cornell University

Licenses/ Certifications

Professional Engineer: NJ, NY

OSHA 40-Hour HAZWOPER

OSHA 10-hour Construction Safety & Health

H2M Mentoring Program Graduate, Mentee

Next →

Rachel A. Kim

P.E.

Senior Project Engineer -
Water Resources

- C-51 STA-1 East Culvert Repairs; Palm Beach, FL: Project Engineer on site responsible for quality control/quality assurance and production and quantity tracking of grouting work. Microfine cement and Portland cement was used to repair and rehabilitate several culverts for this project which was a USACE project with several quality control requirements.
- Mosaic New Wales; Mulberry, FL: Project Engineer responsible for coordinating a pump test and subsequently analyzing the data. Data analysis from the pump test was utilized to prepare a technical write-up and confirm design of the final permanent dewatering system in real time.
- North Shore Connector; Pittsburgh, PA: Design Engineer performing hydrology calculations for deep well system design, analysis of pump test data, and preparation of hydrology and pump test reports in connection with a deep well system installed to enable deep excavation in the dry.
- Brayton Power Plant; Boston, MA: Design Engineer performing analysis of pump test data and preparing three pump test reports in connection with a deep well system installed to facilitate power plant construction and expansion.
- Skyline Project Prudential Center; Newark, NJ: Field Engineer performing pump test using electronic data collectors. Staff Engineer responsible for analyzing the pump test data and preparing a technical memorandum to present the findings. Data from the pump test was utilized to refine the dewatering system design.
- Woonasquatucket CSO; Providence RI: Engineer performing analysis of pump test data and responsible for collecting and processing data from the ground freezing system. Field Engineer on site performing profiling work of the freeze pipes. Data from the profiling was utilized to analyze effects of moving groundwater on the success of the ground freeze system. Ground freezing system was necessary as a means of groundwater control and excavation support to construct a deep shaft as part of the pipeline construction.
- Southwest Pipeline; Beulah, ND: On site Project Engineer monitoring production, surveying alignment of freeze pipes, installation of monitoring system, and collection and processing of data from the ground freezing system. Ground freezing system was necessary as a means of groundwater control and excavation support to construct a deep shaft as part of the pipeline construction.
- Chevron/Rukert Terminals; Baltimore, MD: Project involved construction of a 3,500 linear feet pipeline in contaminated soils. Staff Engineer on site, full time, keeping track of billing and creating T&M invoices.
- Charles River WWTP; Medway, MA: Project Engineer responsible for performing and analyzing a pump test. Data from the pump test was utilized to prepare a Pump Test Report and design the final permanent dewatering system to accommodate draining of tanks for periodic cleaning without concern for uplift due to the high water table.
- Delcora Pump Station; Chester, PA: Project Engineer responsible for designing, estimating, and bidding a dewatering system to address depressurization of an artesian aquifer affecting the integrity of the excavation. Project was safely and successfully completed.
- Linville Dam; Morganton, NC: Project Engineer responsible for designing, estimating, and bidding a dewatering system to effectively dewater the downstream slope of a dam to accommodate rehabilitation to address seismic stability improvements to comply with FERC requirements. Project was successfully completed with a combination of deep wells and wellpoints.
- Brems Bluff Power Station,; New Canton, VA: Project Engineer responsible for designing, estimating, and bidding a semi-permanent dewatering system to allow safe access for personnel and construction equipment atop a saturated coal combustion residual (CCR) holding pond. Under vibratory conditions, as caused by movement of personnel and equipment, saturated CCR materials can experience liquefaction. A system of deep wells was installed at the site and allowed for safe execution of the work.





Alison K. Auriemmo P.E., LEED AP

Vice President, Senior Discipline Engineer - Water Resources



Ms. Auriemmo is responsible for the internal quality assurance and quality control for all water projects conducted by H2M. Ms. Auriemmo is also responsible for design and construction administration tasks associated with the construction of water supply and treatment facilities. She is involved in the preparation of specifications and design plans, project bidding, shop drawing and payment request review, and project coordination with clients and contractors. Ms. Auriemmo has also prepared and assisted in the preparation of engineering reports which evaluate new well locations, existing distribution systems, and proposed VOC wellhead treatment systems.

Selected project experience

- Water System Rehabilitations: Plainview Water District Plant No. 5; Borough of Ringwood; City of Yonkers Water Treatment Plant, Low Service Pump Station and Hillview Pump Station.
- Air Stripping Treatment Systems: Inc. Village of Garden City Well Nos. 8 and 12; Plainview Water District Well No. 5-3
- Iron Removal and Air Stripping Treatment System: South Farmingdale Water District Plant No. 1; South Farmingdale Water District Plant No. 3.
- Granular Activated Carbon Treatment Systems: Garden City Park Water District Well No. 11; South Farmingdale Water District Well No. 5-1; Garden City Park Water District Well No. 6.
- Steel Ground Storage Tank Rehabilitation: West Hempstead Water District Birch Street Plant.
- Water Distribution System Evaluation and Hydraulic Model: Garden City Park Water District.
- Well Pump Replacements: West Hempstead Water District Well No. 7-1 and the City of Long Beach Well No. 17.
- Tablet Chlorinator Installation: All plants for the Locust Valley Water District.
- Emergency Chlorination Testing: Beaver Dam Winter Sports Facility Distribution System.
- New Well Construction: West Hempstead Water District Well No. 7-2.
- New Well Site Study: Garden City Park Water District.
- Engineering Reports: Locust Valley Water District perchlorate removal at Well No. 8, Plainview Water District MTBE removal at Plant No. 1, Plainview Water District MTBE removal at Plant No. 5, West Hempstead Water District MTBE removal at Birch Street.
- Hurricane Sandy Response: City of Long Beach Water Department, provided quality sampling assistance to return potable water service to the community.

Education

B.S., Biological and Environmental Engineering; Cornell University

Licenses/ Certifications

Professional Engineer: NY

LEED Accredited Professional, USGBC

Memberships

American Water Works Association



Timothy J. McGuire P.E.

Assistant Vice President,
Department Manager - Water Resources



Mr. McGuire is a water resources engineer responsible for quality assurance/quality control of all 1,4-dioxane projects at H2M. He makes sure projects are performed consistently and on track, holding weekly status meetings with the water department. Mr. McGuire's experience includes groundwater well construction, rehabilitation and permit applications; potable water treatment technologies including volatile organic chemical removal utilizing granular activated carbon and air stripping, nitrate removal utilizing ion exchange resins, disinfection and pH adjustment; water distribution; construction of bulk chemical tanks; water supply hydraulic design; preparation of construction documents; and construction administration on these projects.

Selected project experience

- Water Authority of Western Nassau County: Wellhead Treatment for the Removal of VOC and Emerging Contaminations (1,4-dioxane and PFAS) at Station No. 57. Prepared pilot protocol, conducted pilot and obtained County and State approval of treatment systems. Design and permitting of VOC and emerging contaminant removal system for 4.0 MGD plant including; six low pressure UV reactors; two 3,000 gallon hydrogen peroxide tanks; four granular activated carbon vessels; 12 foot diameter stripping tower, transfer pumps and mechanical piping chemical treatment systems, instrumentation and control systems; and rehabilitation of well pumps.
- Town of Hempstead: Preparation of an engineering report and financial analysis relating to the existing and possible alternatives to supply water to the area known as the Mitchel Field Water Supply Area. The goal of the study was to provide a cost-benefit-analysis for comparison of the alternatives between retaining the MFWSA as a water supply area, extending the district lines of an existing district to include the MFWSA, and creating a new stand-alone water district encompassing the MFWSA. The results of the study, which included the impact to current and future water rates and tax rates, were provided to the Town of Hempstead in a comprehensive report. A recommendation to retain the MFWSA and increase the water rates within the water supply area was made and was subsequently implemented by the Town.
- Plainview Water District: Preparation of a Water Rate Study to evaluate the annual operating expenses and the actual water use of the customers under the current rate structure to determine the actual costs and revenues from supplying and delivering water to the residents of the District. The goal of the study was to establish a clear understanding of where the revenue, both tax and rate based, and the expenses, both fixed and variable, of the District are currently and whether or not the District is generating sufficient surplus to fund reserves from the existing rate structure. This Water Rate Study proposed a new rate structure that when fully implemented meets the long term financial objectives of the District and generates a surplus to fund reserves in average water sales years.
- Hicksville Water District: Wellhead Treatment for the Removal of Nitrates and VOC at Plant No. 6. Design of nitrate and VOC removal system for 4.0 MGD plant including; six filter anion exchange vessel system with recycle and waste systems; 11'-0" diameter stripping tower; transfer pumps and mechanical piping; chemical treatment systems, instrumentation and control systems; rehabilitation of well pumps; permit applications; administration of multi-trade project construction phases; coordination with client and vendors.
- Hicksville Water District: Wellhead Treatment for the Removal of VOC at Plant No. 5. Design of VOC removal system for 4.0 MGD plant including two 12'-0" diameter stripping towers with vertical air discharge hoods; transfer pumps and mechanical piping; chemical treatment systems, instrumentation and control systems; permit applications; administration of multi-trade project construction phases; coordination with client and vendors. The design of the vertical air discharge hoods on the air stripping towers was the first of its kind to be deemed compliant with Nassau County Department of Health Policy Statement on Control of Air Stripping Tower Emissions.
- South Huntington Water District: Wellhead Treatment for the Removal of VOC at Plant No. 20. Design of granular activated carbon for VOC removal at 2.0 MGD plant. Selection of pressure vessel capacity and arrangement; mechanical piping including distribution water main and chemical treatment.

Education

B.S., Chemical Engineering;
Clemson University

Licenses/ Certifications

Professional Engineer- NY
Project Management Training Program, H2M
Dale Carnegie Training Program

Memberships

American Water Works Association:
New York Section

Long Island Water Conference

Honors

Consulting-Specifying Engineer, 40 under 40
Award, 2020

American Water Works Association, New
York Section, Young Professionals
Award, 2016

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Timothy J. McGuire

P.E.

Assistant Vice President, Department
Manager - Water Resources

- Bethpage Water District: Wellhead Treatment for the Removal of VOC at Plant No. 4. Preparation of engineering report evaluating treatment options; design of combined air stripping / granular activated carbon for VOC removal at 4.0 MGD plant, including a 12'-0" diameter stripping tower; transfer and booster pumps; mechanical piping and chemical treatment systems; instrumentation and control systems; permit applications.
- East Farmingdale Water District: Wellhead Treatment for the Removal of VOC at Plant No. 4. Administration and commissioning of multiple contract project involving the construction of an air stripping treatment plant for VOC removal at a 4.0 MGD plant, including a 12'-0" diameter stripping tower; transfer and booster pumps; mechanical piping and chemical treatment systems, instrumentation and control systems; permit applications.
- Manhasset-Lakeville Water District: Wellhead Treatment for the Removal of VOC at I.U. Willets Plant: Administration and commissioning of multiple contract project involving the construction of an air stripping treatment plant for VOC removal at a 2.0 MGD plant, including a 12'-0" diameter stripping tower; transfer and booster pumps; mechanical piping and chemical treatment systems, instrumentation and control systems; permit applications.
- Greenlawn Water District: Wellhead Treatment for the Removal of VOC at Plant No. 13: Administration, inspection and commissioning of multiple contract project involving the of granular activated carbon for VOC removal at 2.0 MGD plant., well pump rehabilitation, mechanical piping and chemical treatment systems, instrumentation and control systems; administration of multi-trade project construction phases; coordination with client and vendors.





Arthur M. Eschete, Jr.

Assistant Vice President,
Department Manager - Coatings Services



Mr. Eschete has more than 40 years of experience in the construction, corrosion control, coatings, and preservation industries. He is responsible for all aspects of coating inspection, specification and design development, surface preparation, tank condition and quality control assessment, coatings failure analysis, cellular antenna installation, and client communication as these processes take place. Over the course of his career thus far, Mr. Eschete has assessed more than 1,000 elevated water storage tanks, petroleum deep-sea superstructures, petroleum storage tanks, asphalt plant facilities, water/wastewater treatment facilities, and marine vessels. As a seasoned AMPP-certified Coatings Inspector and Protective Coatings Specialist, Mr. Eschete leads the training of H2M's coatings observers in the field and office, spanning such topics as rigging best practices, equipment use and maintenance, and regulatory and industry standards, safety standards, and best practices.

Selected project experience

- Applied Research Associates, Inc. Ohmsett Test Facility Naval Weapons Basin; Leonardo, NJ: Inspection Department Manager responsible for the assessment and rehabilitation of a 2.6 MG saltwater test tank.
- Suffolk County Water Authority Middleville Road Standpipe Rehabilitation; Northport, NY: Inspection Department Manager responsible for the assessment and renovation 2.2 MG tank renovation located on Middleville Road.
- South Farmingdale Water District Rehabilitation of Lourae Avenue Elevated Storage Tank, Plant No. 1; Farmingdale, NY: Inspection Department manager responsible for the rehabilitation of a 1.0 MG ground storage tank on Lourae Avenue.
- Borough of Brielle Development of a 0.3 MG Elevated Water Storage Tank; Brielle, NJ: Inspection Department Manager responsible for the development of a new 0.3 MG elevated storage tank on Old Bridge Road.
- Jericho Water District Elevated Water Storage Tank; Jericho, NY: Inspection Department Manager responsible for the construction of a new 1.5 MG water storage tank on Wheatley Road, 0.5 MG larger than the tank it replaced to account for increased population and water district needs.
- Village of Garden City Elevated Water Storage Tank; Garden City, NY: Inspection Department Manager responsible for the construction of a new, reliable, and cost-efficient 1.0 MG water storage tank on Old Country Road that directly replaced an antiquated riveted steel tank built in 1933. Manhasset-Lakeville Water District Rehabilitation of a 1.2 MG Elevated Water Storage Tank; Great Neck, NY: Coatings Inspector responsible for the evaluation of a rehabilitated 1.2 MG water storage tank, its structural components, coating systems, and compliance items twice annually.
- Hamlet of Greenlawn Rehabilitation of the 3.0 MG Cuba Hill Water Storage Tank, Plant No. 9; Greenlawn, NY: Coatings Inspector responsible for overseeing the rehabilitation of the 3.0 MG Cuba Hill water storage tank.
- Pointe Coupee Water District Development of 0.3 MG Elevated Water Storage Tower; Pointe Coupee Parish, LA: Coatings Inspector responsible for the performance of present conditions assessments of a 0.3 MG elevated water storage tower.
- Amerada Hess Block 43 Assessment of 6,500-ton Topside Oil Production Platform; Gulf of Mexico, LA: Coatings Inspector responsible for assessing a 6,500-ton topside oil production platform.
- Sewage/Water Board of New Orleans Development of Six 3.6 MG Water Storage Tanks; New Orleans, LA: Coatings Inspector responsible for overseeing the development of six 3.6 MG water storage tanks.
- Exxon/Mobil Sable Development of a 5,000-ton Topside Oil Production Platform; Gulf of Mexico, LA: Coatings Supervisor responsible for overseeing the development of a 5,000-ton topside oil production platform.

Licenses/ Certifications

AMPP Level 1, 2, 3 and Peer Review,
Certified Coatings Inspector

AMPP Protective Coatings Specialist

AMPP C-2 Specifying and Managing
Protective Coatings Projects-Advanced

AMPP C-1 Fundamentals of Protective
Coatings for Industrial Structures-Basic

Effective Supervisory Management,
Leadership Management
International Incorporated

Confined Space

Hazard Communication

Lead Awareness

OSHA 10-Hour Construction Safety & Health

Respiratory Protection

Memberships

Vice Chair, Association for Materials
Protection and Performance (AMPP),
Southeast Louisiana Chapter

Long Island Water Conference

AMPP

AMPP, Steel Structures Painting Council

AMPP Metropolitan New York Board,
Section Secretary

Honors/Awards

Melvin C. Miller Award, NACE- Metro New
York Section, 2008



Nicholas F. Bono P.E.

Vice President,
Deputy Discipline Director - Wastewater Engineering



Education

B.S., Environmental Engineering; State
University of New York at Buffalo

Licenses/ Certifications

Professional Engineer: NY, NJ
Project Management Training Program, H2M

Memberships

Water Environment Federation

Mr. Bono has more than 20 years of experience. His responsibilities include engineering design and preparation of bid ready plans and specifications, contract administration/inspection services and project management and sub-consultant coordination on sanitary wastewater projects consisting of gravity sewer collection systems, low pressure sewer collection systems, pumping stations, force mains and sanitary treatment systems. Mr. Bono is also experienced in the preparation of engineering feasibility studies, map and plans and engineering design reports to establish new sewer districts and identify potential out-of-district connections to existing sewer districts to improve environmental, economic and social conditions in un-sewered areas.

Selected project experience

- Nassau County DPW Bay Park Sewage Treatment Plant Permanent Hot/Chilled Water Piping System; East Rockaway, NY: As Project Manager, led the design team's progress by the plumbing, mechanical, civil, electrical, and structural disciplines. The purpose of this project is to provide new site hot and chilled water piping systems which provide heating and cooling to the numerous plant operations and treatment buildings on site. The existing piping has experienced failures over the years and temporary repairs have been constructed. A completely new system of piping would be provided to allow for the demolition of the existing. The project involved a detailed re-evaluation of the 30% preliminary design approach due to all the other projects that had been initiated at the Bay Park Facility since the 30% design was completed by the owner. The preliminary disinfection concept was no longer feasible, and a new hot/chilled water piping routing was established by H2M during this course of this project.
- Nassau County DPW Glen Cove Wastewater Treatment Plant Settling Tank Improvements; Glen Cove, NY: Senior Project Engineer for the design and construction administration of the primary and secondary settling tank improvement project at the Glen Cove Wastewater Treatment Plant. Responsible for coordinating the preparation of detailed design plans and specifications for the complete replacement of the secondary settling tanks, rehabilitation of the primary settling tank clarifiers, replacement of the primary settling tank clarifier drives and complete replacement of the primary forward flow 24-inch diameter isolation plug valves located in the basement of the Plant headworks building. The design tasks specifically included the preparation of a technical design report, refined project construction cost opinions throughout the duration of the design, a PLA feasibility study, evaluation of existing facility record document information and use of laser scan survey information to prepare accurate design documents. Also responsible for the review and comment of all technical shop drawing submissions during the construction phase of the project and coordination with the client's construction manager. Provided recurring project updates to the client at monthly progress meetings throughout the duration of design and construction.
- Nassau County DPW Glen Cove Wastewater Treatment Plant Sludge Dewatering Improvements; Glen Cove, NY: Senior Project Engineer for the design of sludge dewatering facility improvements at the Glen Cove Wastewater Treatment Plant. Responsible for the coordination of detailed design plans and specifications for the demolition, rehabilitation and process improvements to the existing abandoned DAF building located at the Plant. Design tasks included detailed evaluation of new process equipment and coordination with equipment manufacturer's to include the re-use and reassembly of existing client-owned belt filter press dewatering equipment from the Bay Park Sewage Treatment Plant to the Glen Cove Wastewater Treatment Plant. Responsible for the preparation of a technical design report, refined project construction cost opinions throughout the duration of the design, a PLA feasibility study, evaluation of existing record document information for the abandoned DAF building and existing belt filter press equipment. Also responsible for the review and comment of all technical shop drawing submissions during the construction phase of the project and coordination with the client's construction manager. Providing recurring project updates to the client at monthly progress meetings throughout the duration of the project.
- Suffolk County DPW Sewer Capacity Study; Suffolk County, NY: As Project Engineer, evaluated all seven areas of interest for sanitary sewer collection, conveyance and treatment systems. Identified nearby existing treatment facilities with close proximity to each area as well as vacant/municipal owned land in the vicinity of each area and determined the most feasible treatment option based on available capacity, complexity and associated costs. Determined the most feasible collection and conveyance system

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Nicholas F. Bono

P.E.

Vice President, Deputy Discipline
Director - Wastewater Engineering

layouts based on the accepted treatment facility location and prepared overall project cost opinions. Projected project phasing plans and schedules and evaluated cost impacts to "typical" property owners to assist in the economic analysis portion of the sewer capacity analysis. Attended public meetings with stakeholders to present the findings of the study, field questions and incorporate the needs of the community stakeholders into the final findings reports.

- Village of Patchogue Map and Plan; Patchogue, NY: Project Engineer for the preparation of the Feasibility Study and Map & Plan for the East Main Street out-of-district sewer connection to the Village of Patchogue Sewer District. Identified this area as an out-of-district connection from one municipality to another, which in turn required the creation of an inter-municipal agreement between the Town of Brookhaven and Village of Patchogue. Projected sanitary flows based on potential future development of the proposed out-of-district connection, and evaluated sanitary collection system alternatives based on local topography and site logistics to determine the most feasible option. Identified necessary improvements to the existing Village infrastructure to accommodate the additional flow from the out-of-district connection. Created sewer layouts, prepared cost estimates for project construction and conducted contract administration and inspection services during all phases of construction.
- Village of Mastic Beach Map and Plan; Mastic Beach, NY: Project Engineer for the preparation of the Map and Plan for the formation of a sewer system in the Village of Mastic Beach. Responsibilities included working with the Village to establish the service area boundary, calculating sanitary wastewater flow projections, planning for preliminary wastewater collection, conveyance and treatment infrastructure, and determining project cost opinions, associated scheduling components, cost escalation and financing alternatives. Assisted in the preparation of the Environmental Assessment Form (EAF) to initiate the State Environmental Quality Review Act (SEQRA) process.
- Village of Southampton Map and Plan; Southampton, NY: Project Engineer for the preparation of the Map and Plan to establish a municipal sewer system in the Village of Southampton. Worked with the Village to establish the service area boundary, calculating sanitary wastewater flow projections, evaluation of collection system alternatives, planning for preliminary wastewater collection, conveyance and treatment infrastructure, and determining project cost opinions, cost escalation, user charges by property type, associated scheduling components, and financing alternatives.
- Riverhead Sewer District Howell Avenue Pump Station; Riverhead, NY: Project Engineer for the Howell Avenue sanitary pump station. The design tasks included evaluation and selection of mechanical equipment, pump station facility layout and piping, utility upgrades and pump station site plan. Involved in the preparation of the final project plans and specifications. Conducted a post design energy audit and coordinated with the local electrical utility (LIPA) to submit this project under the 2011 Commercial Efficiency Program resulting in a rebate equal to approximately five percent of the total construction cost.
- Suffolk County DPW Sewer Connections; Kings Park and Smithtown NY: Project Engineer for the design of two out-of-district sewer connections for the Smithtown and Kings Park main street business districts to Suffolk County Sewer District No. 6 – Kings Park. The design tasks included the evaluation of area topography, identification of the preferred collection and conveyance systems, area-wide sewer layouts, mechanical equipment sizing/selection, utility upgrades, pump station design, preparation of final plans and specifications and sub-consultant coordination. Assisted in the preparation and submission of environmental impact data for SEQRA compliance.
- Prior to joining H2M, Mr. Bono prepared and supervised investigations to delineate the nature and extent of subsurface contaminants, prepared designs for groundwater remediation systems, supervised construction activities during the installation of remediation systems, trained field personnel to properly operate the remediation systems, and prepared project summary reports for residential, commercial and government clients. Additionally, Mr. Bono also operated numerous environmental remediation systems and was responsible for maintenance of equipment, analyzing laboratory data, and making adjustments needed to maintain efficient and effective treatment.





Andrew M. Manfredi P.E.

Senior Associate, Discipline Engineer - Water Resources



Mr. Manfredi's responsibilities include preparing engineering reports, specifications, and design plans for the purpose of regulatory approval and bidding public works projects. His experience encompasses the following: optimal corrosion control evaluation, advanced oxidation process, granular activated carbon, and packed tower aeration treatment technologies. Currently, his relevant project experience includes consumer outreach, sampling, notification, and service line identification with the Village of Garden City. Mr. Manfredi has also performed multiple pilot studies on various AOP treatment technologies as well as start-up full-scale UV/H2O2 AOP systems to confirm performance. He has also presented on various AOP subject matters at New York State AWWA, New Jersey AWWA, and national AWWA conferences. Other project experience includes rehabilitation and construction of existing and new elevated water storage tanks. Mr. Manfredi also specializes in BIM software and applications including 3D laser scanning and modeling.

Selected project experience

- Bethpage Water District Interim AOP Treatment at Plant No. 6; Bethpage, NY: In-house design of a 2.0 MGD ground water supply station utilizing a low pressure UV/H2O2 AOP system, development of engineering report, research of best design practices with the new technology, accurate scanning of existing conditions, three dimensional modeling of new mechanical equipment systems within the existing building footprint, commissioning, start up, water quality sampling/review of the new system, and regulatory approval by the New York State Department of Health.
- Various Water Districts Low Pressure UV/H2O2 AOP Pilot Studies: In-house design of (40) 20 GPM small scale pilot studies utilizing low pressure UV/H2O2 AOP treatment as required by the New York State Department of Health for all new AOP treatment systems. Pilot study included the review of background water quality, creation of a sampling protocol and testing matrix for submission to the State and local departments of health, in-field analytical testing, and analysis of laboratory and field testing results for a final report to submit to the regulatory agencies with the engineering report. Water suppliers that were tested as part of this pilot program included: South Huntington, Water Authority of Western Nassau County, Water Authority of Great Neck North, Franklin Square, Bethpage, Plainview, Hicksville, Inc. Village of Garden City, Town of Hempstead, Manhasset-Lakeville, Garden City Park, South Farmingdale, and Roslyn.
- Inc. Village of Garden City Optimal Corrosion Control Treatment Report: In-house engineering report that reviewed regulatory requirements and water quality data (specifically, alkalinity, pH, dissolved inorganic carbon, hardness, buffer intensity, dissolved oxygen, oxidation-reduction potential, chloride, and sulfate) for evaluation of alternative corrosion control methods to control the release of lead and copper into drinking water for submission to local regulatory agency. Other areas of the project include: mass-sampling program for lead in specific areas of the Village, distribution system water quality testing, public notification to affected residents, service line identification record review, and consumer outreach.
- Franklin Square Water District AOP/PTA Treatment at Theodora Street Plant: In-house design of permanent advanced oxidation process and packed tower aeration 4.0 MGD ground water supply station for the purpose of publicly bidding multiple Wick's Law compliant contracts. Work also included development of engineering report for review/approval by Nassau County Department of Health and 348 plan submission to NYSDOH and NCDH agencies for review/approval. Project included provisions to keep one well running to maintain water supply throughout the District and phased construction and start-up of individual systems to meet District's water pumping needs.
- Plainview Water District Medium Pressure UV/H2O2 AOP Pilot Study at Plant No. 3; Plainview, NY: In-house design of a 40 GPM pilot study utilizing medium-pressure UV/H2O2 and UV/CL2 AOP treatment. Pilot study included the review of background water quality, creation of a sampling protocol and testing matrix for evaluation of the treatment technology and feasibility for the Water District.

Education

B.S., Chemical Engineering;
Manhattan College

Licenses/ Certifications

Professional Engineer: NY
Project Management Training Program, H2M

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Andrew M. Manfredi

P.E.

Senior Associate, Discipline
Engineer - Water Resources

- Bethpage Water District VOC Treatment Upgrades at Plant No. 6; Bethpage, NY: In-house design of a 4.0 MGD VOC treatment facility utilizing packed tower aeration (with vapor-phase carbon air discharge treatment system), a low-pressure UV/H₂O₂ AOP treatment system, and granular activated carbon for the treatment of 1,4-dioxane and other VOCs. Design included preparation of an engineering report, three-dimensional modeling of new building with requisite architectural, structural, treatment, mechanical, and electrical systems, model walk-throughs with design team and client for review prior to bidding and construction, submission for regulatory approval, project analysis and creation of design documents for the purpose of publicly bidding the project. This project is currently under construction.
- West Hempstead Water District Replacement of Birch Street Elevated Water Storage Tank; West Hempstead, NY: In-house design of a 1.0 MGD composite elevated storage tank for potable water. Design included preparation of an engineering report comparing traditional tank styles and life-cycle costs, creation of bidding design documents for public bidding, construction administration and inspection of the project during construction, start-up and commissioning of the new tank as well as regulatory approval.





Karen Benson P.G.

Associate, Practice Leader - Water Resources



Ms. Benson is a hydrogeologist with more than 35 years of experience working with a variety of water systems and assisting clients in responding to ongoing and ever-changing requirements. She offers significant experience working with New Jersey water purveyors for compliance with the Safe Drinking Water Act (SDWA). Ms. Benson also has experience conducting hydrogeologic investigations of aquifer and well yields for groundwater supply development. Her experience includes designing and implementing well rehabilitation programs; supervision and implementation of water production well design and installation; and planning, testing, and permitting of water allocation permits.

Selected project experience

- Park Ridge Water Hydrogeological Services; Park Ridge, NJ: Served as Project Manager for various hydrogeological services over a 10-year period that included completion and permitting of a replacement well; update of groundwater resource assessment for the service area; evaluation of water department regarding compliance with federal and state SDWA requirements; continuous review of water quality data to assist with operational and maintenance issues as well as to track any changing source quality issues; and assistance with preparation of sampling plans, permit renewals, and correspondence with the New Jersey Department of Environmental Protection (NJDEP) on a variety of issues.
- Ridgewood Water Hydrogeological Services; Ridgewood, NJ: Project Manager responsible for hydrogeological services for 10+ years. Repossessing well operational and well performance data for a system with over 50 wells. Designed and worked to implement a phased plan of well assessment and rehabilitation, assessment of inactive wells as part of ongoing plan to restore them to service. Reviewed water quality data to ensure compliance with the SDWA and assess changes in source water quality.
- Ho-Ho-Kus Water Hydrogeological Services; Ho-Ho-Kus, NJ: Project Manager for hydrogeological services. Evaluated Water Department regarding compliance with federal and state SDWA requirements; conducted a continuous review of water quality data to assist with operational and maintenance issues, as well as to track any changing source quality issues, including emerging PFAS contaminants; and assisted with preparation of sampling plans, permit renewals, water conservation plans, and correspondence with the NJDEP on a variety of issues.
- Parsippany-Troy Hills Water Hydrogeological Services; Parsippany, NJ: Served as Project Manager for a variety of hydrogeological services. Project scopes involved developing well rehabilitation plans, including development of technical bid specifications, contractor selection, and project oversight. Completed a well assessment program, including well testing, rehabilitation, and plans for well replacements.
- East Orange Water Hydrogeological Services; Essex County, NJ: Served as Project Manager for various hydrogeological services over a 10-year period, starting with a desktop wellfield assessment of 18 wells completed in buried glacial valley deposits and bedrock aquifers. Developed and managed a comprehensive testing, rehabilitation, and well replacement program to allow for maximizing the well capacities while minimizing water quality issues. Developed an interim well operational protocol for maintaining water quality prior to completion of system treatment, and assisted operations in tracking blending of water from active wells to meet drinking water standards.
- Monroe Township Utility Department Hydrogeological Services; Monroe Township, NJ: Project Manager responsible for hydrogeological services for 10+ years. Responsibilities included coordination and management of the siting, drilling, testing, and permitting of a two supply wells for incorporation into a public community water supply system as part of a water allocation transfer.
- Confidential Client Water Supply Development; Moncks Corner, SC: Project Manager that coordinated and managed the siting, drilling, and testing of a deep supply well used to develop an industrial water supply source. Aquifer testing of the supply well was completed and the results used to develop a locale specific numerical model. The results of the modeling were used in conjunction with the analyses of the testing data in support of a groundwater withdrawal permit for use of the supply well.
- Township of New Windsor Water Supply Development; New Windsor, NY: Coordinated and assisted with the design of a groundwater exploration program to expand the existing public community water supply sources. Availability for developing additional groundwater supplies locations within the Town were limited, so the initial exploration program focused on the use of angle drilling to explore potential deposits underlying the Hudson River. Assisted with management of the exploration, development, and testing of a five MGD groundwater supply within a local river valley using three supply wells.

Education

B.A., Geology; Hartwick College

Licenses/ Certifications

Professional Geologist: PA

AWWA Utility Risk and Resilience Certified

OSHA 40-Hour HAZWOPER

Memberships

AWWA, New Jersey Sector



Steven Soussou P.E.

Associate, Department Manager - MEP Engineering



Mr. Soussou has more than 30 years of experience as an electrical engineer, client liaison, and project manager. He has worked on a wide variety of project types over the course of his career, including projects in the energy, residential, healthcare, K-12, higher education, corporate, commercial, retail, special amusement, photovoltaic, marine, transit, municipal, and insurance market sectors. Mr. Soussou's expertise includes energy audits, normal and emergency/standby power distribution systems, including medium voltage site infrastructure, building power distribution, emergency power generation systems, uninterruptible power supplies, and photovoltaic systems.

Selected project experience

Education

B.S., Electrical Engineering;
Cooper Union

Licenses/ Certifications

Professional Engineer: NJ, NY, PA
MTA NYC Transit Track Safety

- Sisters of Charity of St. Elizabeth Water Infrastructure Improvements; Florham Park, NJ: Electrical Design Engineer responsible for assisting the Sisters of Charity of St. Elizabeth in converting its existing campus infrastructure and providing service connection to NJ American Water.
- NJ American Water Jerusalem Road Pumps 1 and 2 Booster Station Improvements; Scotch Plains, NJ: Electrical Design Engineer responsible for replacing the booster pumps, motors, and new suction/discharge piping and valving for two booster pumps. The pumps were replaced with new 1,500 GPM pumps, including VFDs and an emergency generator.
- Middlesex Water Company Pinelands Well House #2 Expansion; Southampton Township, NJ: Electrical Design Engineer for the expansion of an existing well station to accommodate the footprint of proposed modifications to well discharge piping and treatment process equipment.
- Passaic Valley Sewerage Commission (PVSC) PSE&G Energy Audit; Newark, NJ: Provided ASHRAE - Level 3 energy audit services in conjunction with Netgains Engineering and JK Muir for the PVSC under PSE&G's Engineered Solutions Program. A comprehensive energy audit was developed by the team after reviewing existing documentation, performing site visits, and interviewing facility staff. Provided a detailed breakdown of the facility's existing equipment and energy consumption, as well as identified a series of non-process and process energy efficiency measures along with estimated implementation costs.
- Saint Peter's University PSE&G Energy Audit; Jersey City, NJ: Provided ASHRAE - Level 3 energy audit services in conjunction with Netgains Engineering for Saint Peter's University under PSE&G's Engineered Solutions Program. A comprehensive energy audit was developed by the team after reviewing existing documentation, performing site visits, and interviewing facility staff. Provided a detailed breakdown of the facility's existing equipment and energy consumption. Additionally, a series of energy efficiency measures were identified along with estimated implementation costs.
- Middlesex College PSE&G Energy Audit; Edison, NJ: Provided ASHRAE - Level 3 energy audit services in conjunction with Keri Engineering for Middlesex College under PSE&G's Engineered Solutions Program. A comprehensive energy audit was developed by the team after reviewing existing documentation, performing site visits, and interviewing facility staff. Provided a detailed breakdown of the facility's existing equipment and energy consumption. The report also included a series of energy efficiency measures along with estimated implementation costs.
- Paterson Public Schools High School HVAC System Replacement; Paterson, NJ: Oversaw the design of electrical systems associated with the replacement of existing classroom unit ventilators and ductless split HVAC units at the Rosa L. Parks School of Fine and Performing Arts.
- Steven Institute of Technology Howe Building 13th Floor Renovations; Hoboken, NJ: Oversaw the design of electrical systems as part of the renovation of the 13th floor of the Howe Building. The project includes a new President's office suite, office renovations, new bathroom finishes/fixtures, a conference room, and miscellaneous interior finishes.

Next →

Steven Soussou P.E.

Associate, Department Manager -
MEP Engineering



- Belleville School District District-Wide Air Conditioning Upgrades; Belleville, NJ: Conducted a feasibility study and provided electrical engineering design for air conditioning units and various electrical upgrades at nine school buildings in the District.
- Garfield Board of Education District-Wide HVAC Systems Assessment; Garfield, NJ: Oversaw a Districtwide assessment to determine which District facilities did not have adequate air conditioning and identify which areas had previous HVAC systems near the end of their anticipated service life and should be considered for replacement.
- PSEG Hospital Energy Efficiency Extension II Program; Various Locations, NJ: Managing assignments for PSEG under the EE17 program, to identify and develop energy efficiency measures for hospitals and healthcare facilities. As part of this program, H2M performs level 3 energy audits for respective facilities, develops energy efficiency measures for each project, designs and prepares bid and permit plans and specifications for the identified energy efficiency measures, performs all required energy savings and payback calculations in compliance with BPU protocols, sees projects through the DCA review process, provides bid and construction administration services through project completion, and prepares all required closeout documentation. As part of the program, H2M has prepared or is currently preparing level 3 energy audits for the following facilities: St Mary's General Hospital, Newark Beth Israel Medical Center, Carrier Clinic, Holy Name Medical Center, and Clara Maass Medical Center. H2M has provided or is currently providing full MEP project design and construction administration services for the following facilities: St Mary's General Hospital, Newark Beth Israel Medical Center, Holy Name Medical Center, and Mountainside Medical Center.
- New Jersey Natural Gas Energy Efficiency Engineered Solutions Program; Lakewood, NJ: Managing the design of numerous energy efficiency measures at Monmouth Medical Center's Southern Campus. These measures include replacement, retrofit and re-lamping of existing lighting with higher efficiency LED components; implementation of lighting controls; implementation of oxygen trim and parallel positioning controls on existing boilers; upgrades and refurbishment of seven existing air handlers; implementation of VFDs for modulation; heating and cooling coil replacements; modifications to control sequences for nighttime setback; replacement of failed steam traps; and insulation of steam and hot water piping and devices. As part of this program, H2M prepares all design bid and permit plans and specifications, performs all required energy savings and payback calculations in compliance with BPU protocols, sees the project through the DCA review process, and provides bid and construction administration services.
- New Jersey Division of Property Management and Construction (NJDPMC) Leonardo State Marina Bulkhead Replacement; Leonardo, NJ: Provided electrical engineering design associated with a bulkhead replacement and pier/dock infrastructure upgrade at Leonardo State Marina. The new electrical distribution system will be designed with components to be installed on new elevated platforms as required for compliance with applicable codes and guidelines as related to the base flood elevation at the site. The new electrical distribution system design will include the code-required ground fault monitoring/protection systems.
- Union County Government Complex MEP Bridging Documents and Design Criteria; Elizabeth, NJ: Oversaw the preparation of electrical bridging documents and design criteria for a proposed design-build project to procure a new Union County Government Complex, to be located in Elizabeth, NJ. The proposed complex will consist of two buildings each with a different floor plate, totaling approximately 225,000 square feet. The complex will contain primarily office and related spaces. H2M was subsequently selected to take over as the Engineer-of-Record for the full MEP design of this complex, which is currently ongoing.
- Borough of Brielle Borough Hall Addition and Renovations; Brielle, NJ: Presided over the electrical design for a major renovation and addition to the Brielle Borough Hall. The addition integrated a sally port and new elevator into the section of the building utilized by the Brielle Police Department. Additionally, the project involved making interior alterations, reallocating building space per the new addition, upgrading the building's mechanical and electrical systems, incorporating an emergency generator, and ADA accessibility enhancements.
- Newark Beth Israel Medical Center PSE&G Energy Efficiency Project; Newark, NJ: Provided engineering design and construction administration services for a multitude of energy efficiency measures to be implemented at Newark Beth Israel Medical Center. These energy efficiency measures were undertaken as part of PSE&G's Hospital Energy Efficiency Extension II Program and were based on a preliminary energy audit performed by Netgains Engineering. Specifically, the measures pursued on this project included LED lighting upgrades, the installation of automatic lighting controls, the refurbishment of existing cooling towers, insulation repairs, boiler control upgrades, the implementation of boiler blowdown heat recovery, constant speed to variable speed pumping system conversions, and the refurbishment of existing air handling units.



Victor L. Villegas

Senior Project Engineer – Electrical Engineering



Mr. Villegas is an electrical engineer with more than 25 years of experience. His experience includes power distribution, new services, service upgrades, motor control centers, emergency generators, PLC controls, lighting, site lighting, and fire alarm systems. He also has experience in shop drawing review and construction phase services.

Selected project experience

- Township of Wall Roosevelt Tank SCADA; Wall, NJ: Designed plans and specifications for the installation of a PLC control panel with cellular communication in existing booster stations.
- Park Ridge Water Department Permanent PFAS Treatment at Well Nos. 11, 12, 14, and 18; Park Ridge, NJ: Designed plans and specifications for PFAS treatment. Design included a new service upgrade, electrical distribution system, lighting, and new emergency generator.
- Park Ridge Water Department Permanent PFAS Treatment at Well No. 20; Park Ridge, NJ: Designed plans and specifications for new PFAS Treatment at Well No. 20. Design included a new electrical distribution system, lighting, and power to HVAC equipment.
- Parsippany-Troy Hills Water Department Replacement Well No. 20R; Parsippany, NJ: Designed plans and specifications for a new replacement building for Well No. 20R which includes new electrical service, new service entrance equipment, electrical distribution system, lighting, power to HVAC equipment, and new emergency generator.
- Township of Jefferson Moosepac Well PFAS Treatment; Jefferson, NJ: Designed plans and specifications for new PFAS Treatment at existing Moosepac Well. Design included a new electric service, electrical distribution system, lighting, power to HVAC equipment, and new emergency generator.
- Borough of Ramsey Arrow Road PFAS Treatment Facility; Ramsey, NJ: Designed plans and specifications for PFAS treatment at the Arrow Road Facility. Design included upgrading existing electric service, new electrical distribution system, lighting, power to HVAC equipment, and new emergency generator docking station.
- East Orange Board of Water Commissioners Replacement of Dickinson Well 3; East Orange, NJ: Designed plans and specifications to upgrade existing electrical service equipment, motor starter, and distribution system, and lighting.
- Borough of Highlands Waterwatch Wastewater Pump Station; Highlands, NJ: Designed plans and specifications for electrical upgrades to an existing pump station. Design included a new electric service, electrical distribution system, interior and exterior lighting, power to pumps and HVAC equipment.
- Township of Livingston WPCF Motor Control Centers; Livingston, NJ: Designed plans and prepared specifications for replacement of the existing motor control centers at the existing treatment plant.
- Ocean County Utilities Authority Emergency Generators Replacement; Brick Township and Seaside Heights, NJ: Designed emergency power generator replacements for the Operations and Maintenance (O&M) Building at the North Water Pollution Control Facility (NWPCF) and Seaside Park Pump Station.
- Brick MUA GAC Improvement at William Miller WTP; Brick NJ: Prepared plans and specifications for new lighting, electrical power distribution system, and Motor Control Center for motors associated with the two new GAC buildings. Review electrical construction submittals.
- New Jersey American Water Swimming River Membranes; Tinton Falls NJ: Designed new outdoor medium voltage switchgear, new outdoor pad mounted transformer, and outdoor low voltage switchgear and electrical power distribution system to power temporary portable filter membrane trailers.
- Monroe Township Utilities Department Well No. 25 Iron Removal Plant Design; Monroe NJ: Designed new electrical service, electrical power distribution system, new lighting, Motor Control Center (MCC), new PLC and instrumentation, and new natural gas generator associated with the Iron Removal Building.

Next →

Education

B.S., Electrical Engineering; New York
Institute of Technology

Licenses/ Certifications

Project Management Training Program, H2M



Victor L. Villegas

Senior Project Engineer –
Electrical Engineering

- Borough of Spring Lake Heights Pump Station FEMA Flood Mitigation; Spring Lake NJ: Prepared plans and specifications for upgrade of two sewer pump stations. Design includes new service equipment, new lighting, new PLC control, and new backup natural gas generator.
- Borough of Brielle Old Bridge Tank Replacement and Water Improvement; Brielle NJ: Designed the electrical upgrade at the existing pump station and replacement of the elevated tank at the Old Bridge water pump station. Designed new service equipment, MCC, new lighting, new electrical distribution, and new instrumentation controls.
- New Jersey American Water Chambers Brook Crossing Improvements; Bridgewater NJ: Designed water interconnection vault power and control. Designed outdoor enclosure for the electrical distribution system, control panel, and radio equipment.
- New Jersey American Water Summit PRV Interconnect; Summit NJ: Designed water interconnection vault power and control. Designed outdoor enclosure for the electrical distribution system, control panel, and HVAC equipment starters.





David A. Sheldon P.E.

Project Engineer - Water Resources



Mr. Sheldon has more than 10 years of experience in hydraulic modeling and water resources engineering. His experience includes design, project management, and construction inspection on a variety of water and wastewater projects, such as hydraulic modeling of water systems, water tank rehabilitation projects, water main replacement design, groundwater well rehabilitation and reconstruction, and wastewater collection and conveyance.

Selected project experience

- Wall Township Replacement Wells #10 and #11; Wall Township, NJ: Project Engineer for a project to replace two public water system wells in Wall Township, Monmouth County, NJ. The two existing wells were no longer performing at their rated capacity; new wells were drilled adjacent to the existing. H2M's role on this project was during bid, construction administration and construction inspection. Tasks performed include monitoring construction progress, receive and respond to submittals, applications for payment, and proposed change orders.
- Veolia Shorelands Chemical System Improvements; Holmdel and Hazlet, NJ: Project Engineer to replace the entirety of the chemical feed systems at two water treatment plants in Holmdel and Hazlet, Monmouth County, NJ. The existing systems (sodium hypochlorite, sodium hydroxide, citric acid, zinc orthophosphate, and polyaluminum chloride) did not meet the client's internal standards for chemical storage, containment, and feed. I managed the construction administration and construction inspection aspects of the project, receiving and responding to submittals, RFIs, applications for payment, and change order requests.
- Wall Township Route 34/Route 138 Water Main Extensions; Wall, NJ: Project Engineer for the construction administration / inspection of 13,500 feet of 12-inch water main. Responsible for contractor coordination, processing submittals, applications for payment, change orders, and RFIs, as well as coordination with the I-Bank and NJDEP.
- Veolia Coles Avenue Booster Station Replacement; Mountainside, NJ: Project Engineer for the design to replace an aging boost vault station in Mountainside, New Jersey. To date, the project has included coordinating survey, site and booster station design, coordination for Green Acres review, and civil improvements for the access driveway. The new station will be relocated and constructed above grade, and will include several hundred feet of new main both suction and discharge.
- Brick Township Municipal Utilities Authority Brick Reservoir FEMA Grant Application; Brick, NJ: The existing Brick Reservoir is a raw water reservoir used as backup to the BTMUA's intakes on the Metedeconk River, which can experience periods of turbidity great enough to shut the intakes. The grant proposal made under the Pre-Disaster Mitigation (PDM) fund sought to harden the easily erodible slopes of the reservoir, thereby making more of the volume usable for the water system. To date, the grant has made it through the first two rounds of agency review.
- Monroe Township Utilities Department Hydraulic Modeling; Monroe, NJ: Project Engineer responsible for the conversion of an existing model from Bentley WaterGEMS to Innovyze Infowater. Once converted, the model integrity was validated using flow test data. The model has since been utilized for various developer service applications as well as a tank siting study to replace a non-functional tank in a new location. As hydraulic modeler I was responsible for all hydraulic analyses, calibration, and report preparation. The Monroe system contains three pressure zones and nearly 300 miles of water main.
- Wall Township Hydraulic Modeling; Wall, NJ: As Hydraulic Model Technical Lead, built a brand new hydraulic model for the Township of Wall water system. The system includes two interconnections, five groundwater plants, three pressure zones, and roughly 180 miles of main. Was responsible for importing data from ArcGIS, validating connectivity of mains, assign elevation, demands, and diurnal curves, initialize all pumps, tanks, and interconnections, and establish controls to accurately simulate system performance. The calibrated model has since been used to study various capital improvements, including the creation of a new pressure zone with a new tank, booster station, and various distribution system improvements.

Education

B.S., Civil Engineering; The College of New Jersey

Licenses/ Certifications

Professional Engineer: NJ

OSHA 30-hour General Industry Certification

OSHA 40-hour HAZWOPER

Memberships

Jersey Water Works

American Society of Civil Engineers



Alan P. Hilla Jr. P.E., P.P., CME

Vice President, Deputy Municipal Market Director,
Central Jersey Office Director



Mr. Hilla has 35 years of experience in the state of New Jersey as a professional engineer and professional planner. As a licensed professional in these two areas, he has provided consulting services as an Engineer of Record, Zoning Officer, Land Use Engineer, and Municipal Planner for municipalities such as the Boroughs of Brielle, Lake Como, Spring Lake, Keyport, Manasquan, Bradley Beach, Eatontown, Keansburg, Tinton Falls, South Toms River, Pompton Lakes, Township of Wall, and the City of Long Branch.

Selected project experience

- Borough of Brielle New Jersey Department of Transportation (NJDOT) Municipal Aid Improvements to Fisk Avenue Phases I and II; Brielle, NJ: Engineer of Record for the design and construction of roadway improvements spanning from State Highway Route 71 to Three Bridges, including curb, sidewalk and driveway apron replacement, drainage system improvements, and pavement sub-base repair prior to pavement renewal and line striping. The construction cost for this project was approximately \$600,000.
- Borough of Brielle NJDOT Municipal Aid Improvements to Green Avenue Phases I and II; Brielle, NJ: Engineer of Record tasked with the design and construction of roadway improvements spanning from Union Lane to the Green Avenue Bridge, including curb and driveway apron replacement, drainage system improvements, and pavement sub-base repair prior to pavement renewal and line striping. The construction cost for this project was \$310,000.
- Essex County Improvement Authority Fuel Tank Replacement; Fairfield, NJ: Project Engineer responsible for all aspects of civil engineering and site improvements necessary for the replacement of a fuel tank at the Essex County Airport. The project costs totaled \$1.6 million.
- Borough of Manasquan Main Street Beach Office and Addition and Improvements; Manasquan, NJ: Project Manager and Engineer responsible for all aspects of the enhancement and addition to a beachside office space on Main Street in Manasquan. This included mold remediation, structural evaluation, building remodeling, exterior recladding, and drainage improvements to extend the useful life of the essential oceanfront facility. Additional services performed prior to the building's re-opening for the 2021 summer season included evaluation, coordination, remediation, design, bidding, and construction administration/inspection, together valued at \$750,000.
- NJDOT Municipal Aid Improvements to Union Lane Phases II and III; Brielle, NJ: Engineer of Record for the design and construction of roadway improvements spanning from State Highway Route 71 to the Manasquan River, including curb and driveway apron replacement, drainage system improvements, and pavement sub-base repair prior to pavement renewal. The construction cost for this project was approximately \$294,000.
- Long Branch Board of Education Morris Avenue School Parking Lot Expansion; Long Branch, NJ: Engineer of Record for the lateral addition of an existing parking lot serving the Morris Avenue School. The scope of work included pavement expansion, stormwater management, site lighting, security, traffic pattern design, and soil conservation permitting.
- Borough of Brielle ADA Accessibility Improvements at Borough Hall; Brielle, NJ: Engineer of Record responsible for overseeing the installation of ADA-related improvements at Borough Hall, including a ramp leading up the building entrance, vestibule lift from the building lobby to the first floor, and bathroom fixtures to achieve ADA compliance.
- Borough of Pompton Lakes Morris Canal Greenway Project; Pompton Lakes, NJ: Engineer of Record responsible for the final design, NJDEP permitting, and construction of nearly one mile of stabilized gravel trail paralleling the edge of the Ramapo River, complete with site furniture, native landscaping, playground modification, and interpretive/wayfinding signage. With project implementation costs totaling \$300,000, the project earned the 2019 Distinguished Project award from the American Council of Engineer Companies.
- Borough of Brielle NJDOT Municipal Aid Improvements to Valley Road Phase II; Brielle, NJ: Engineer of Record tasked with the design and construction of roadway improvements spanning from Birch Drive to Riverview Drive (CR. 48), including curb and driveway apron replacement, drainage system improvements, and pavement sub-base repair prior to pavement renewal. The construction cost for this project was \$280,000.

Education

B.S., Civil Engineering; Rutgers University

Licenses/ Certifications

Professional Engineer: NJ, NY, PA

Professional Planner: NJ

Certified Municipal Engineer (CME): NJ

Trainings

NJDEP Stormwater Management Design
Review Course (2018 and 2023)

NJDEP Stormwater Management Rule
Amendment Training (2023)

Memberships

New Jersey Society of Municipal Engineers

David J. Didimamoff AIA, LEED AP

Studio Director



Mr. Didimamoff is an architect with 20 years of experience on a variety of project types in New York and New Jersey. His experience includes K-12 schools, private and charter schools, corporate interiors, and retail. He has overseen millions of dollars in construction projects each year. Mr. Didimamoff is well-versed in the New Jersey Building Code as well as New Jersey Department of Education (NJDOE) processes.

Selected project experience

- Morris County Municipal Utilities Authority (MCMUA) Parsippany Transfer Station Roof Replacement; Parsippany, NJ: Led architectural services for the replacement of a 32,300 square foot metal roof with a new standing-seam structural metal panel system over the transfer floor. Scope also included installation of 10,000 square foot of exterior metal panel fascia with associated Z-girts, 800 square foot of EPDM roofing over office areas, and the removal of abandoned passive ventilation and exhaust hoods. Delivered full project lifecycle support from Schematic Design through construction administration and project closeout.
- New Jersey Turnpike Authority (NJTA) Maintenance Yard Improvements Term Contract; Various Locations, NJ: Providing professional services for improvements at New Jersey Turnpike maintenance yards on an as-needed basis to the NJTA. The scope of work for this contract includes construction of new prefabricated metal buildings, clear span fabric structures, and various site improvements at multiple maintenance yards located along the New Jersey Turnpike. The prefabricated metal buildings will be used to store maintenance vehicles. The clear span fabric structures will be constructed on shipping container foundations, which provide additional storage space. The site improvements include concrete ramps for dumpsters, site lighting, and new pavement.
- Monmouth County Library New Exterior Entrance Canopy; Shrewsbury, NJ: Provided design services for a new exterior entrance canopy at the Monmouth County Eastern Branch Library.
- Borough of Brielle Borough Hall Addition and Renovations; Brielle, NJ: Provided quality assurance/quality control (QA/QC) for a major renovation and addition to the Brielle Borough Hall. The addition integrated a sally port and new elevator into the section of the building utilized by the Brielle Police Department. Additionally, the project involved making interior alterations, reallocating building space per the new addition, upgrading the building's mechanical and electrical systems, incorporating an emergency generator, and ADA accessibility enhancements.
- Joint Meeting of Essex and Union Counties (JMEUC) Elevator Modernization; Elizabeth, NJ: Provided architectural services for the modernization of the existing passenger elevator within the JMEUC digester building. The intent was to convert the existing elevator from its current passenger use to freight use.
- Greater Mount Zion Community Development Corporation Maternal Center; Trenton, NJ: Responsible for design development for a proposed maternal health clinic and social justice office to be located in a historic building in Trenton, NJ. The renovation of the approximately 18,500 square foot building included the adaptive reuse and renovation of existing spaces.
- Sisters of Charity New Event Hall; Florham Park, NJ: Provided preliminary design, including code and site analysis; design development; and construction administration for a +/- 5,000 square foot event space, lobby, and support space addition to the Mother House at the Sisters of Charity.
- Private Client Parochial High School Conceptual Design; Florham Park, NJ: Prepared schematic design for a new +/- 25,000 square foot high school to replace the existing building on the campus.
- Belleville Public Schools Middle and High School HVAC Upgrades; Belleville NJ: Provided design, bidding and construction coordination for an upgrade of unit ventilators, rooftop units, and exhaust fans as part of a grant program.
- Belleville Public Schools Middle School Office Renovation; Belleville NJ: Prepared construction documents for interior alterations to accommodate relocation of the Middle School main entrance and main administration office.

Education

Bachelor of Architecture; New Jersey
Institute of Technology

Licenses/ Certifications

Registered Architect: NJ
LEED Accredited Professional, USGBC

Memberships

American Institute of Architects

David J. Didimamoff

AIA, LEED AP

Studio Director



- Linden Public Schools Unit Ventilator Replacements; Linden, NJ: Provided design services for unit ventilator replacements at various schools in the District.
- Linden Public Schools Roof Replacements; Linden, NJ: Performed design and construction administration services for roof replacements at various schools in the District.
- North Warren Regional School District High School Media Center Renovation; Blairstown, NJ: Provided preliminary design, design development, and construction documents for the interior renovation of a media center.
- North Warren Regional School District High School Partial Roof Replacement; Blairstown, NJ: Provided preliminary design, design development, and construction documents for a roof replacement.
- Rowan University Campus-Wide Accessibility Program; Glassboro, NJ: Performed a review of accessibility at 15 Rowan University locations and prepared a report of deficiencies for the University to use to develop a capital plan to address the deficiencies.
- Rowan University Central Accumulation Area (CAA) Building; Glassboro, NJ: Designed a prefabricated CAA facility for hazardous waste to address the University's expanding need to manage and control hazardous waste generated by many departments across multiple campuses. The CAA allows for proper collection, storage, handling and disposal of hazardous waste.
- Stevens Institute of Technology Howe Building 7th Floor Interior Renovation; Hoboken, NJ: Provided fast-tracked services for the interior renovation of +/- 4,900 square feet of office space. These services included code analysis, design development, construction documents, and construction administration.
- Stevens Institute of Technology Howe Building 8th Floor Interior Renovation; Hoboken, NJ: Provided fast-tracked services for the interior renovation of +/- 2,600 square feet of office space. These services included code analysis, design development, and construction administration.
- Stevens Institute of Technology DeBaun Athletic Field Complex Lighting; Hoboken, NJ: Led the design of modifications to the electrical power distribution system and stadium lighting controls at the DeBaun Athletic Field.
- Union Township Schools Middle School Door Replacement; Union Township, NJ: Provided architectural and construction administration services for the replacement of approximately 125 interior doors and 42 exterior doors.
- Union Township Schools Middle School HVAC Upgrades; Union Township, NJ: Responsible for architectural and construction administration services for this HVAC upgrade project.
- Linden Public Schools School No. 6 Addition; Linden, NJ: Performed due diligence to evaluate the feasibility of constructing a new classroom addition and playground on the site of School No. 6.
- Linden Public Schools Pedestrian Bridge Crossing; Linden, NJ: Performed due diligence to evaluate the feasibility of constructing a pedestrian bridge crossing to connect Linden High School and Linden Academy of Technology and Science.
- Paterson Public Schools PS 17/Urban Leadership Academy Adaptive Reuse; Paterson, NJ: Responsible for preliminary site and code analysis for the adaptive reuse of PS 17.
- Perth Amboy Public Schools Perth Amboy High School Roof Replacement; Perth Amboy, NJ: As Project Manager, oversaw the full roof removal and replacement of +/- 150,000 square feet, consisting of built-up roof areas.
- Perth Amboy Public Schools Shull Middle School Roof Replacement; Perth Amboy, NJ: As Project Manager, oversaw the full roof removal and replacement of +/- 40,000 square feet, consisting of built-up roof areas.
- East Brunswick Public Schools Churchill Junior High School Temporary Classroom Units; East Brunswick, NJ: Acted as Project Manager during the installation of 32 temporary classroom units to create a 7th grade wing of the building. The fully enclosed facility provided additional general and science instructional space, small group instruction spaces, and associated administrative and support spaces. The project also included site improvements around the facility and to adjacent athletic fields to accommodate the building installation.
- Morris School District Woodland Avenue Elementary School Roof Replacement; Morristown, NJ: Project Manager responsible for the oversight of a partial roof removal and replacement of +/-50,000 square feet, consisting of modified membrane roof areas.



Meghan Burnham R.A.

Associate, Assistant Studio Director



Ms. Burnham is an architect with more than 10 years of experience. Her responsibilities include leading and coordinating projects during all phases, including design development; site surveying; construction documents; specification preparations; bidding and contract assistance; and construction administration tasks. Ms. Burnham has taken on a strong role in the Education and Public Safety Markets, where she plays a key role in client development. Her responsibilities within this realm include the production of bond presentations, assisting the client with community support, schematic design, design development, and construction documents. Recently Ms. Burnham has taken a lead role in the development of projects in the New Jersey area. She continues to work alongside numerous clients to ensure their visions for their school districts, municipalities, private clients come to reality.

Selected project experience

Education

M.A., Architecture; Roger Williams University
B.S., Architecture; Roger Williams University
Minors: Construction Management, Art History

Licenses/Certifications

Registered Architect: NJ, NY
NCARB Certified

Honors/Awards

H2M President's Award (2021)
LIBN 30 Under 30 Honoree (2018)
Tau Sigma Delta
Roger Williams Academic Showcase (2013 - 2014)

Presentations

1-on-One Pre-Conference: Station Design
Conference (2019 & 2021)
Speaker at Stevens Institute of Technology Hugo
Neu Corporation Sustainability Seminar Series
(2022)

Community Service

Staying Alive 5K - Armonk
Marccum Challenge (2015 - 2019)
Breast Cancer 5K - Shelter Island, NY (2018)
Hope for Youth 5K (2018)
Pitch In for Parks Cleanup (2021)
Head of H2M Women's Leadership
Outreach Group

- Morris County Municipal Utilities Authority (MCMUA) Parsippany Transfer Station Roof Replacement; Parsippany, NJ: Architectural services for the replacement of a 32,300 square foot metal roof with a new standing-seam structural metal panel system over the transfer floor. Scope also included installation of 10,000 square foot of exterior metal panel fascia with associated Z-girts, 800 square foot of EPDM roofing over office areas, and the removal of abandoned passive ventilation and exhaust hoods. Delivered full project lifecycle support from Schematic Design through construction administration and project closeout.
- North Warren Regional School District High School Partial Roof Replacement; Blairstown, NJ: Provided preliminary design, design development, and construction documents for a roof replacement.
- Belvidere Union Free School District HVAC Upgrades; Belvidere NJ: Provided design, bidding, and construction coordination for an upgrade of unit ventilators, rooftop units, and exhaust fans as part as a grant program.
- Belleville Public Schools Middle and High School HVAC Upgrades; Belleville NJ: Provided design, bidding and construction coordination for an upgrade of unit ventilators, rooftop units, and exhaust fans as part as a grant program.
- Stevens Institute of Technology Howe Building 8th Floor Interior Renovation; Hoboken, NJ: Provided fast-tracked services for the interior renovation of +/- 2,600 square feet of office space. These services included code analysis, design development, and construction administration. (
- Monroe Woodbury School District Building Conditions Survey; Orange County, NY: Provided building condition survey for the District and helped in formatting a five-year plan.
- North Warren Regional School District High School Media Center Renovation; Blairstown, NJ: Provided preliminary design, design development, and construction documents for the interior renovation of a media center.
- Stevens Institute of Technology Howe Building 7th Floor Interior Renovation; Hoboken, NJ: Provided fast-tracked services for the interior renovation of +/- 4,900 square feet of office space. These services included code analysis, design development, construction documents, and construction administration.
- Private Client Conceptual Design of New High School Feasibility; NJ: Provided programming, goal setting, conceptual design, cost opinion, and renderings for a new 52,000 square foot High School.
- Belleville Public Schools High School Greenhouse Addition; Belleville NJ: Provided design documents for installation and building department approval for a new prefabricated greenhouse at the High School's life skills building.
- Belleville Public Schools High School Life Skills House Renovation; Belleville NJ: Provided design documents for renovation and building department approval of an existing house that was converted into a life skills building.

Next →



Meghan Burnham

R.A.

Associate, Assistant Studio Director

- Belleville Public Schools Middle School Auditorium Code Compliance Review; Belleville NJ: Provided site analysis of existing conditions of the historic Middle School auditorium to determine if additional safety measures were required for 'reopening' of auditorium balcony based on code requirements.
- Stevens Institute of Technology Howe Building Presidential Suite Interior Renovation; Hoboken, NJ: Provided fast-tracked services for the interior renovation of +/- 4,900 square feet of office space. These services included code analysis, design development, construction documents, and construction administration.
- Garfield School District Middle School Outdoor Classroom; Garfield NJ; Provided preliminary design, design development, and construction documentation for an outdoor interior courtyard classroom with pre-manufactured canopy.
- Stevens Institute of Technology Commercial Kitchen Upgrades; Hoboken, NJ: Work included a renovation to existing commercial kitchen in student housing. This fast-tracked project included architectural design and construction documents developed in three phases: preliminary design, including code and site analysis; design development; and construction administration.
- Borough of Metuchen Fire Department; Metuchen, NJ: Provided preliminary design, programming, cost opinion of a new one-story 11,750 square foot firehouse and pre-manufactured support building for overflow vehicle storage.
- Sisters of Charity New Event Hall; Florham Park, NJ: Provided preliminary design, including code and site analysis; design development; and construction administration for a +/- 5,000 square foot event space, lobby, and support space addition to the Mother House at the Sisters of Charity.
- Roslyn Water District; Roslyn NY: Provide design documents for new pump buildings. Worked in Com-Check and Revit to provide compliant construction documents.





► Rate Schedule



Rate Schedule

H2M will invoice for professional services based on the actual hours expended multiplied by the hourly labor rate of the individual that performs the service, except where H2M and the MCMUA have agreed to a lump sum fee or a monthly retainer for the services to be rendered. The firm's labor rates are provided below.

► Hourly Rate Schedule 2026

Job Title	Hourly Rate
Principal	\$259.00
Practice Leader	\$253.00
Senior Project Manager	\$230.00
Project Manager (Senior Project Engineer 2)	\$207.00
Senior Project Engineer	\$190.00
Project Engineer 2	\$179.00
Project Engineer 1	\$168.00
Staff Engineer	\$150.00
Engineering Technician	\$127.00
Administrative Support Professional	\$104.00

► Utilized Expenses

Expense	Cost
Mileage for personal or company-owned utility vehicle	.72 cents per mile or IRS min./mile
Subcontractors	Cost plus 10%
Reproduction Documents:	
8 1/2" x 11" Color	\$0.50/page
11" x 17" Color	\$1.00/page
24" x 36" Color	\$2.50/page
Aerial Drone + Pilot	\$2,500 per diem
ROV + Operator	\$2,500 per diem

MORRIS COUNTY MUA

Administrative Documents

A. Please submit the following documents with your response to the RFP

Owner's Checkmarks		Bidder's Initials
X	Statement of Ownership Disclosure	JJT
X	Non-Collusion Affidavit	JJT
X	Disclosure of Investment Activities In Iran	JJT
X	Certification of Non-Involvement in Prohibited Activities in Russia or Belarus	JJT
X	Affidavit of Non-Debarred Status	JJT
X	Affirmative Action Compliance Notice	JJT
X	Mandatory EEO Language	JJT
X	Americans with Disability Act of 1990 Form	JJT
X	Anti-Discrimination Requirements	JJT
X	Pay to Play Advisory Notice	JJT
X	Certificate of Employee Information Report/AA-302	JJT
X	W-9	JJT
X	New Jersey Business Registration Certificate	JJT
X	Proposal (document not provided)	JJT

MORRIS COUNTY MUA

Mandatory EEO Language

EXHIBIT A

MANDATORY EQUAL EMPLOYMENT OPPORTUNITY LANGUAGE

N.J.S.A. 10:5-31 et seq. (P.L.1975, c.127)

N.J.A.C. 17:27 et seq.

GOODS, GENERAL SERVICES, AND PROFESSIONAL SERVICES CONTRACTS

During the performance of this contract, the contractor agrees as follows:

The contractor or subcontractor, where applicable, will not discriminate against any employee or applicant for employment because of age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex. Except with respect to affectional or sexual orientation and gender identity or expression, the contractor will ensure that equal employment opportunity is afforded to such applicants in recruitment and employment, and that employees are treated during employment, without regard to their age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex.

Such equal employment opportunity shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship.

The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the Public Agency Compliance Officer setting forth provisions of this nondiscrimination clause.

The contractor or subcontractor, where applicable will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex.

The contractor or subcontractor will send to each labor union, with which it has a collective bargaining agreement, a notice, to be provided by the agency contracting officer, advising the labor union of the contractor's commitments under this chapter and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

The contractor or subcontractor, where applicable, agrees to comply with any regulations promulgated by the Treasurer pursuant to N.J.S.A. 10:5-31 et seq., as amended and supplemented from time to time and the Americans with Disabilities Act.

The contractor or subcontractor agrees to make good faith efforts to meet targeted county employment goals established in accordance with N.J.A.C. 17:27-5.2.

The contractor or subcontractor agrees to inform in writing its appropriate recruitment agencies including, but not limited to, employment agencies, placement bureaus, colleges, universities, and labor unions, that it does not discriminate on the basis of age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex, and that it

MORRIS COUNTY MUA

Mandatory EEO Language

will discontinue the use of any recruitment agency which engages in direct or indirect discriminatory practices.

The contractor or subcontractor agrees to revise any of its testing procedures, if necessary, to assure that all personnel testing conforms with the principles of job related testing, as established by the statutes and court decisions of the State of New Jersey and as established by applicable Federal law and applicable Federal court decisions.

In conforming with the targeted employment goals, the contractor or subcontractor agrees to review all procedures relating to transfer, upgrading, downgrading and layoff to ensure that all such actions are taken without regard to age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex, consistent with the statutes and court decisions of the State of New Jersey, and applicable Federal law and applicable Federal court decisions. The contractor shall submit to the public agency, after notification of award but prior to execution of a goods and services contract, one of the following three documents:

Letter of Federal Affirmative Action Plan Approval;

Certificate of Employee Information Report; or

Employee Information Report Form AA-302 (electronically provided by the Division and distributed to the public agency through the Division's website at: http://www.state.nj.us/treasury/contract_compliance.

The contractor and its subcontractors shall furnish such reports or other documents to the Division of Purchase & Property, CCAU, EEO Monitoring Program as may be requested by the office from time to time in order to carry out the purposes of these regulations, and public agencies shall furnish such information as may be requested by the Division of Purchase & Property, CCAU, EEO Monitoring Program for conducting a compliance investigation pursuant to N.J.A.C. 17:27-1.1 et seq

Business Name: H2M Associates, Inc.

Representative's Name (print): Joseph J. Todaro, P.E., LEED AP BD+C

Representative's Signature:

Date: January 5, 2026

MORRIS COUNTY MUA

Affirmative Action Compliance Notice

EXHIBIT A

GOODS, GENERAL SERVICES, AND PROFESSIONAL SERVICES CONTRACTS

This form is a summary of the successful vendor's requirement to comply with the requirements of N.J.S.A. 10:5-31 and N.J.A.C. 17:27.

The respondent shall submit to the public agency, one of the following three documents as forms of evidence:

1. Letter of Federal Affirmative Action Plan Approval
2. Certificate of Employee Information Report
3. A photocopy of an Employee Information Report (AA302) provided by the Division and distributed to the public agency to be completed by the vendor in accordance with N.J.A.C. 17:27-4.

The vendor must submit the copies of the AA302 Report to the Division of Contract Compliance and Equal Employment Opportunity in Public Contracts (Division). The Public Agency copy is submitted to the public agency, and the vendor copy is retained by the vendor.

The undersigned vendor further understands that his/her proposal shall be rejected as non-responsive if said vendor fails to comply with the requirements of N.J.S.A. 10:5-31 et seq. and N.J.A.C. 17:27.

Business Name: H2M Associates, Inc.

Representative's Name (print): Joseph J. Todaro, P.E., LEED AP BD+C

Representative's Signature:

Date: January 5, 2026

Certification **3244**

CERTIFICATE OF EMPLOYEE INFORMATION REPORT RENEWAL

This is to certify that the contractor listed below has submitted an Employee Information Report pursuant to N.J.A.C. 17:27-1.1 et. seq. and the State Treasurer has approved said report. This approval will remain in effect for the period of **15-May-2023 to 15-May-2026**

H2M ASSOCIATES, INC

538 BROAD HOLLOW RD., 4TH FLR. EAST

MELVILLE

NY 11747



A handwritten signature in black ink, reading "Elizabeth Maher Muoio".

ELIZABETH MAHER MUOIO

State Treasurer

MORRIS COUNTY MUA

Americans with Disabilities Act of 1990

The CONTRACTOR and the OWNER do hereby agree that the provisions of Title 11 of the Americans With Disabilities Act of 1990 (the "ACT") (42 U.S.C. S12101 et seq.), which prohibits discrimination on the basis of disability by public entities in all services, programs, and activities provided or made available by public entities, and the rules and regulations promulgated pursuant thereunto, are made a part of this contract. In providing any act benefit, or service on behalf of the OWNER pursuant to this contract, the CONTRACTOR agrees that the performance shall be in strict compliance with the Act. In the event that the Contractor, its agents, servants, employees, or subcontractors violate or are alleged to have violated the Act during the performance of this contract, the CONTRACTOR shall defend the OWNER in any action or administrative proceeding commenced pursuant to this Act. The Contractor shall indemnify, protect, and save harmless the OWNER, its agents, servants, and employees from and against any and all suits, claims, losses, demands, or damages, of whatever kind or nature arising out of or claimed to arise out of the alleged violation. The CONTRACTOR shall, at its own expense, appear, defend, and pay any and all charges for legal services and any and all costs and other expenses arising from such action or administrative proceeding or incurred in connection therewith. In any and all complaints brought pursuant to the OWNER grievance procedure, the CONTRACTOR agrees to abide by any decision of the OWNER which is rendered pursuant to said grievance procedure. If any action or administrative proceeding results in an award of damages against the OWNER or if the OWNER must any expense to cure a violation of the ADA which has been brought pursuant to its grievance procedure, the CONTRACTOR shall satisfy and discharge the same at its OWN expense.

The OWNER shall, as soon as practicable after a claim has been made against it, give written notice thereof to the CONTRACTOR along with full and complete particulars of the claim. If any action or administrative proceedings is brought against the OWNER or any of its agents, servants, and employees, the OWNER shall expeditiously forward or have forwarded to the CONTRACTOR every demand, complaint, notice, summons, pleading, or other process received by the OWNER or its representatives.

It is expressly agreed and understood that any approval by the OWNER of the services provided by the CONTRACTOR pursuant to this contract will not relieve the CONTRACTOR of the obligation to comply with the Act and to defend, indemnify, protect, and save harmless the OWNER pursuant to this paragraph.

It is further agreed and understood that the OWNER assumes no obligation to indemnify or save harmless the CONTRACTOR, its agents, servants, employees and subcontractors for any claim which may arise out of their performance of this Agreement. Furthermore, the CONTRACTOR expressly understands and agrees that the provisions of this indemnification clause shall in no way limit the CONTRACTOR'S obligations assumed in this Agreement, nor shall they be construed to relieve the CONTRACTOR from any liability, nor preclude the OWNER from taking any other actions available to it under any other provisions of the Agreement or otherwise at law.

MORRIS COUNTY MUA

Americans with Disabilities Act of 1990

Furthermore, the contractor expressly understands and agrees that the provisions of this indemnification clause shall in no way limit the contractor's obligations assumed in this Agreement, nor shall they be construed to relieve the contractor from any liability, nor preclude the owner from taking any other actions available to it under any other provisions of the Agreement or otherwise at law.

Business Name (Print): H2M Associates, Inc.

Representative's Name (Print): Joseph J. Todaro, P.E., LEED AP BD+C

Representative's Title: Vice President

Representative's Signature:

Phone: (862) 207-5900

Date: January 5, 2026

MORRIS COUNTY MUA

New Jersey Anti-Discrimination

Pursuant to N.J.S.A. 10:2-1:

- a. In the hiring of persons for the performance of work under this contract or any subcontract hereunder, or for the procurement, manufacture, assembling or furnishing of any such materials, equipment, supplies or services to be acquired under this contract, no contractor, nor any person acting on behalf of such contractor or subcontractor, shall, by reason of race, creed, color, national origin, ancestry, marital status, gender identity or expression, affectional or sexual orientation or sex, discriminate against any person who is qualified and available to perform the work to which the employment relates;
- b. No contractor, subcontractor, nor any person on his behalf shall, in any manner, discriminate against or intimidate any employee engaged in the performance of work under this contract or any subcontract hereunder, or engaged in the procurement, manufacture, assembling or furnishing of any such materials, equipment, supplies or services to be acquired under such contract, on account of race, creed, color, national origin, ancestry, marital status, gender identity or expression, affectional or sexual orientation or sex;
- c. There may be deducted from the amount payable to the contractor by the contracting public agency, under this contract, a penalty of \$ 50.00 for each person for each calendar day during which such person is discriminated against or intimidated in violation of the provisions of the contract; and
- d. This contract may be canceled or terminated by the contracting public agency, and all money due or to become due hereunder may be forfeited, for any violation of this section of the contract occurring after notice to the contractor from the contracting public agency of any prior violation of this section of the contract.

Business Name (Print): H2M Associates, Inc.

Representative's Name (Print): Joseph J. Todaro, P.E., LEED AP BD+C

Representative's Title: Vice President

Representative's Signature:

Phone: (862) 207-5900

Date: January 5, 2026

STATEMENT OF OWNERSHIP DISCLOSURE

N.J.S.A. 52:25-24.2 (P.L. 1977, c.33, as amended by P.L. 2016, c.43)

This statement shall be completed, certified to, and included with all bid and proposal submissions. Failure to submit the required information is cause for automatic rejection of the bid or proposal.

Name of Organization: H2M Associates, Inc.

Organization Address: 119 Cherry Hill Road, Suite 110, Parsippany, NJ 07054

Part I Check the box that represents the type of business organization:

- ☐ Sole Proprietorship (skip Parts II and III, execute certification in Part IV)
- ☐ Non-Profit Corporation (skip Parts II and III, execute certification in Part IV)
- ☒ For-Profit Corporation (any type) ☐ Limited Liability Company (LLC)
- ☐ Partnership ☐ Limited Partnership ☐ Limited Liability Partnership (LLP)
- ☐ Other (be specific): _____

Part II

- ☒ The list below contains the names and addresses of all stockholders in the corporation who own 10 percent or more of its stock, of any class, or of all individual partners in the partnership who own a 10 percent or greater interest therein, or of all members in the limited liability company who own a 10 percent or greater interest therein, as the case may be. **(COMPLETE THE LIST BELOW IN THIS SECTION)**

OR

- ☐ No one stockholder in the corporation owns 10 percent or more of its stock, of any class, or no individual partner in the partnership owns a 10 percent or greater interest therein, or no member in the limited liability company owns a 10 percent or greater interest therein, as the case may be. **(SKIP TO PART IV)**

(Please attach additional sheets if more space is needed):

Name of Individual or Business Entity	Address
H2M Associates, Inc. is a wholly owned subsidiary of H2M Architects, Engineers, Geology, Land Surveying and Landscape Architecture, D.P.C. No stockholder owns 10% or more of the Stock of any class of H2M Architects, Engineers, Geology, Land Surveying and Landscape Architecture, D.P.C.	

Part III DISCLOSURE OF 10% OR GREATER OWNERSHIP IN THE STOCKHOLDERS, PARTNERS OR LLC MEMBERS LISTED IN PART II

If a bidder has a direct or indirect parent entity which is publicly traded, and any person holds a 10 percent or greater beneficial interest in the publicly traded parent entity as of the last annual federal Security and Exchange Commission (SEC) or foreign equivalent filing, ownership disclosure can be met by providing links to the website(s) containing the last annual filing(s) with the federal Securities and Exchange Commission (or foreign equivalent) that contain the name and address of each person holding a 10% or greater beneficial interest in the publicly traded parent entity, along with the relevant page numbers of the filing(s) that contain the information on each such person. **Attach additional sheets if more space is needed.**

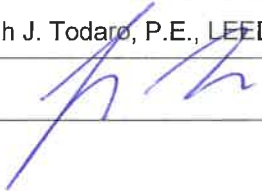
Website (URL) containing the last annual SEC (or foreign equivalent) filing	Page #'s

Please list the names and addresses of each stockholder, partner or member owning a 10 percent or greater interest in any corresponding corporation, partnership and/or limited liability company (LLC) listed in Part II **other than for any publicly traded parent entities referenced above.** The disclosure shall be continued until names and addresses of every noncorporate stockholder, and individual partner, and member exceeding the 10 percent ownership criteria established pursuant to N.J.S.A. 52:25-24.2 has been listed. **Attach additional sheets if more space is needed.**

Stockholder/Partner/Member and Corresponding Entity Listed in Part II	Address

Part IV Certification

I, being duly sworn upon my oath, hereby represent that the foregoing information and any attachments thereto to the best of my knowledge are true and complete. I acknowledge: that I am authorized to execute this certification on behalf of the bidder/proposer; that the **Morris County Municipal Utilities Authority** is relying on the information contained herein and that I am under a continuing obligation from the date of this certification through the completion of any contracts with **Morris County Municipal Utilities Authority** to notify the **Morris County Municipal Utilities Authority** in writing of any changes to the information contained herein; that I am aware that it is a criminal offense to make a false statement or misrepresentation in this certification, and if I do so, I am subject to criminal prosecution under the law and that it will constitute a material breach of my agreement(s) with the, permitting the **Morris County Municipal Utilities Authority** to declare any contract(s) resulting from this certification void and unenforceable.

Full Name (Print):	Joseph J. Todaro, P.E., LEED AP BD+C	Title:	Vice President
Signature:		Date:	January 5, 2026

MORRIS COUNTY MUA

New Jersey Business Registration Certification

Pursuant to N.J.S.A. 52:32-44, the Morris County Municipal Utilities Authority is prohibited from entering into a contract with an entity unless the bidder/proposer/contractor, and each subcontractor that is required by law to be named in a bid/proposal/contract has a valid Business Registration Certificate on file with the Division of Revenue and Enterprise Services within the Department of the Treasury.

Prior to contract award or authorization, the contractor shall provide the Morris County Municipal Utilities Authority with its proof of business registration and that of any named subcontractor(s).

Subcontractors named in a bid or other proposal shall provide proof of business registration to the bidder, who in turn, shall provide it to the Morris County Municipal Utilities Authority prior to the time a contract, purchase order, or other contracting document is awarded or authorized.

During the course of contract performance:

- (1) the contractor shall not enter into a contract with a subcontractor unless the subcontractor first provides the contractor with a valid proof of business registration.
- (2) the contractor shall maintain and submit to the Morris County Municipal Utilities Authority a list of subcontractors and their addresses that may be updated from time to time.
- (3) the contractor and any subcontractor providing goods or performing services under the contract, and each of their affiliates, shall collect and remit to the Director of the Division of Taxation in the Department of the Treasury, the use tax due pursuant to the Sales and Use Tax Act, (N.J.S.A. 54:32B-1 et seq.) on all sales of tangible personal property delivered into the State. Any questions in this regard can be directed to the Division of Taxation at (609)292-6400. Form NJ-REG can be filed online at <http://www.state.nj.us/treasury/revenue/busregcert.shtml>.

Before final payment is made under the contract, the contractor shall submit to the Morris County Municipal Utilities Authority a complete and accurate list of all subcontractors used and their addresses.

Pursuant to N.J.S.A. 54:49-4.1, a business organization that fails to provide a copy of a business registration as required, or that provides false business registration information, shall be liable for a penalty of \$25 for each day of violation, not to exceed \$50,000, for each proof of business registration not properly provided under a contract with a contracting agency.



STATE OF NEW JERSEY BUSINESS REGISTRATION CERTIFICATE

Taxpayer Name: H2M ASSOCIATES, INC.
Trade Name:
Address: 119 CHERRY HILL ROAD, SUITE 110
PARSIPPANY, NJ 07054-1114
Certificate Number: 0068842
Effective Date: November 01, 1979
Date of Issuance: January 21, 2025

For Office Use Only:
20250121172545053

[Return](#)

State Of New Jersey
New Jersey Office of the Attorney General
Division of Consumer Affairs

THIS IS TO CERTIFY THAT THE
Board of Prof. Engineers & Land Surveyors

HAS LICENSED

H2M ASSOCIATES, INC.
CHARLES ANTHONY MARTELLO
119 CHERRY HILL RD., STE. 110
Parsippany NJ 07054

FOR PRACTICE IN NEW JERSEY AS A(N): Certificate of Authorization

Engineering
Engineering & Land Surveying

08/08/2024 TO 08/31/2026
VALID

24GA28019100
LICENSE/REGISTRATION/CERTIFICATION #


Signature of Licensee/Registrant/Certificate Holder


ACTING DIRECTOR

**State Of New Jersey
New Jersey Office of the Attorney General
Division of Consumer Affairs**

THIS IS TO CERTIFY THAT THE
LANDSCAPE ARCHITECTS EXAMINATION AND EVALUATION

HAS CERTIFIED

H2M ASSOCIATES INC
CARMELA R SCHOMMER
119 Cherry Hill Road - Ste 110
Parsippany NJ 07054

FOR PRACTICE IN NEW JERSEY AS A(N): Certificate of Authorization

05/19/2025 TO 05/31/2027
VALID

21MH00010300
LICENSE/REGISTRATION/CERTIFICATION #


Signature of Licensee/Registrant/Certificate Holder


DIRECTOR

MORRIS COUNTY MUA

Pay to Play Advisory

PAY TO PLAY ADVISORY

Disclosure Requirement

(N.J.S.A. 19:44A – 20.27)

Any business entity that has received \$50,000 or more in contracts from government entities in a calendar year will be required to file an annual disclosure report with ELEC.

The report will include certain contributions and contract information for the current calendar year.

At a minimum, a list of all business entities that file an annual disclosure report will be listed on ELEC's website at www.elec.state.nj.us.

If you have any questions please contact ELEC at:
1-888-313-ELEC (toll free in NJ) or
609-292-8700

An analyst from ELEC's Special Programs Section will assist you.

Initials JJT

MORRIS COUNTY MUA

Certification of Non-Involvement in Prohibited Activities in Russia or Belarus

Pursuant to N.J.S.A. 52:32-60.1, et seq. and N.J.S.A.40A:11-2.2 (L. 2022, c. 3) any person or entity (hereinafter "Vendor") that seeks to enter into or renew a contract with a local contracting unit subject to the Local Public Contracts Law for the provision of goods or services, or the purchase of bonds or other obligations, must complete the certification below indicating whether or not the Vendor is identified on the Office of Foreign Assets Control (OFAC) Specially Designated Nationals and Blocked Persons list, available here: <https://sanctionssearch.ofac.treas.gov/>. If the Department of the Treasury finds that a Vendor has made a certification in violation of the law, it shall take any action as may be appropriate and provided by law, rule or contract, including but not limited to, imposing sanctions, seeking compliance, recovering damages, declaring the party in default and seeking debarment or suspension of the party.

I, the undersigned, certify that I have read the definition of "Vendor" below, and have reviewed the Office of Foreign Assets Control (OFAC) Specially Designated Nationals and Blocked Persons list, and having done so certify

(Check the Appropriate Box)

- ☒ A. That the Vendor is not identified on the [OFAC Specially Designated Nationals and Blocked Persons list on account of activity related to Russia and/or Belarus](#).
- OR**
- ☐ B. That I am unable to certify as to "A" above, because the Vendor is identified on the [OFAC Specially Designated Nationals and Blocked Persons list on account of activity related to Russia and/or Belarus](#).
- OR**
- ☐ C. That I am unable to certify as to "A" above, because the Vendor is identified on the [OFAC Specially Designated Nationals and Blocked Persons list](#). However, the Vendor is engaged in activity related to Russia and/or Belarus consistent with federal law, regulation, license or exemption. A detailed description of how the Vendor's activity related to Russia and/or Belarus is consistent with federal law is set forth below.

(Attach Additional Sheets If Necessary.)

Signature of Vendor's Authorized Representative	January 5, 2026
Joseph J. Todaro, P.E., LEED AP BD+C, Vice President	Date
Print Name and Title of Vendor's Authorized Representative	22-2275101
H2M Associates, Inc.	Vendor's FEIN
Vendor's Name	(862) 207-5900
119 Cherry Hill Road, Suite 110	Vendor's Phone Number
Vendor's Address (Street Address)	(973) 334-0507
Parsippany, NJ 07054	Vendor's Fax Number
Vendor's Address (City/State/Zip Code)	jtodaro@h2m.com
	Vendor's Email Address

¹ Vendor means: (1) A natural person, corporation, company, limited partnership, limited liability partnership, limited liability company, business association, sole proprietorship, joint venture, partnership, society, trust, or any other nongovernmental entity, organization, or group; (2) Any governmental entity or instrumentality of a government, including a multilateral development institution, as defined in Section 1701(c)(3) of the International Financial Institutions Act, 22 U.S.C. 262r(c)(3); or (3) Any parent, successor, subunit, direct or indirect subsidiary, or any entity under common ownership or control with, any entity described in paragraph (1) or (2).

MORRIS COUNTY MUA

Disclosure of Investment Activities in Iran

Pursuant to Public Law 2012, c. 25, any person or entity that submits a bid or proposal or otherwise proposes to enter into or renew a contract must complete the certification below to attest, under penalty of perjury, that the person or entity, or one of the person or entity's parents, subsidiaries, or affiliates, is not identified on a list created and maintained by the Department of the Treasury as a person or entity engaging in investment activities in Iran. If the Director finds a person or entity to be in violation of the principles which are the subject of this law, s/he shall take action as may be appropriate and provided by law, rule or contract, including but not limited to, imposing sanctions, seeking compliance, recovering damages, declaring the party in default and seeking debarment or suspension of the person or entity.

I certify, pursuant to Public Law 2012, c. 25, that the person or entity listed for which I am authorized to bid/renew:

Bidder/Offorer: H2M Associates, Inc.

- ☒ is not providing goods or services of \$20,000,000 or more in the energy sector of Iran, including a person or entity that provides oil or liquefied natural gas tankers, or products used to construct or maintain pipelines used to transport oil or liquefied natural gas, for the energy sector of Iran; is not a financial institution that extends \$20,000,000 or more in credit to another person or entity, for 45 days or more, if that person or entity will use the credit to provide goods or services in the energy sector in Iran.

In the event that a person or entity is unable to make the above certification because it or one of its parents, subsidiaries, or affiliates has engaged in the above-referenced activities, a detailed, accurate and precise description of the activities must be provided in part 2 below to the Division of Purchase under penalty of perjury. Failure to provide such will result in the proposal being rendered as non-responsive and appropriate penalties, fines and/or sanctions will be assessed as provided by law.

PART 2: PLEASE PROVIDE FURTHER INFORMATION RELATED TO INVESTMENT ACTIVITIES IN IRAN

You must provide, accurate and precise description of the activities of the bidding person/entity, or one of its parents, subsidiaries or affiliates, engaging in the investment activities in Iran outlined above by completing the boxes below.

Name: _____ Relationship to Bidder/Offorer: _____

Description of Activities: _____

Duration of Engagement: _____ Anticipated Cessation Date: _____

Bidder/Offorer Contact Name: _____ Contact Phone Number: _____

Certification: I, being duly sworn upon my oath, hereby represent and state that the foregoing information and any attachments thereto to the best of my knowledge are true and complete. I attest that I am authorized to execute this certification on behalf of the above-referenced person or entity. I acknowledge that Town/ Township/ Borough/Government Agency is relying on the information contained herein and thereby acknowledge that I am under a continuing obligation from the date of this certification through the completion of any contracts with the MCMUA to notify the MCMUA in writing of any changes to the answers of information contained herein. I acknowledge that I am aware that it is a criminal offense to make a false statement or misrepresentation in this certification, and if I do so, I recognize that I am subject to criminal prosecution under the law and that it will also constitute a material breach of my agreement(s) with Morris County Municipal Utilities Authority, New Jersey and that the MCMUA at its option may declare any contract(s) resulting from this certification void and unenforceable.

Full Name (Print): Joseph J. Todaro, P.E., LEED AP BD+C Signature: _____

Title: Vice President Date: January 5, 2026

MORRIS COUNTY MUA

Non-Collusion Affidavit

New York
STATE OF NEW JERSEY
MORRIS COUNTY MUNICIPAL UTILITIES AUTHORITY ss:

I certify that I am Vice President
of the firm of H2M Associates, Inc.

the Respondent making this Proposal for the bid or proposal for the above named project, that I executed the said proposal with full authority to do so; that said bidder has not, directly or indirectly entered into any agreement, participated in any collusion or otherwise taken any action in restraint of free, competitive bidding in connection with the above named project; and that all statements contained in said proposal and this affidavit are true, correct, and made with full knowledge that the Morris County Municipal Utilities Authority relies upon the truth of the statements contained in said Proposals and in the statements contained in this affidavit in awarding the contract for the said project.

I further warrant that no person or selling agency has been employed or retained to solicit or secure such contract upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee, except bona fide employees or bona fide established commercial or selling agencies.

Signature of Representative: _____

Joseph J. Todaro, P.E., LEED AP BD+C, Vice President

Subscribed and sworn to before me this 5th day of January, 2026

Print Name of Affiant: Marie Ruocco Marie Ruocco

Notary Public of NY

My commission expires 9/16/26

MARIE RUOCCO
Notary Public, State of New York
No. 01RU6080438
Qualified in Westchester County
Commission Expires September 16, 2026

Affidavit of Non-Debarred Status

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**Request for Taxpayer
Identification Number and Certification**

Go to www.irs.gov/FormW9 for instructions and the latest information.

Give form to the
requester. Do not
send to the IRS.

Before you begin. For guidance related to the purpose of Form W-9, see *Purpose of Form*, below.

Print or type.
See Specific Instructions on page 3.

1 Name of entity/individual. An entry is required. (For a sole proprietor or disregarded entity, enter the owner's name on line 1, and enter the business/disregarded entity's name on line 2.) H2M Associates, Inc	
2 Business name/disregarded entity name, if different from above.	
3a Check the appropriate box for federal tax classification of the entity/individual whose name is entered on line 1. Check only one of the following seven boxes. ☐ Individual/sole proprietor ☒ C corporation ☐ S corporation ☐ Partnership ☐ Trust/estate ☐ LLC. Enter the tax classification (C = C corporation, S = S corporation, P = Partnership) _____ Note: Check the "LLC" box above and, in the entry space, enter the appropriate code (C, S, or P) for the tax classification of the LLC, unless it is a disregarded entity. A disregarded entity should instead check the appropriate box for the tax classification of its owner. ☐ Other (see instructions) _____	4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3): Exempt payee code (if any) _____ Exemption from Foreign Account Tax Compliance Act (FATCA) reporting code (if any) _____ (Applies to accounts maintained outside the United States.)
3b If on line 3a you checked "Partnership" or "Trust/estate," or checked "LLC" and entered "P" as its tax classification, and you are providing this form to a partnership, trust, or estate in which you have an ownership interest, check this box if you have any foreign partners, owners, or beneficiaries. See instructions ☐	
5 Address (number, street, and apt. or suite no.). See instructions. 538 Broad Hollow Road, 4th Floor East	Requester's name and address (optional)
6 City, state, and ZIP code Melville, NY 11747	
7 List account number(s) here (optional)	

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

Note: If the account is in more than one name, see the instructions for line 1. See also *What Name and Number To Give the Requester* for guidelines on whose number to enter.

Social security number	
or	
Employer identification number	

Part II Certification

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
- I am not subject to backup withholding because (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
- I am a U.S. citizen or other U.S. person (defined below); and
- The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and, generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign Here	Signature of U.S. person	Date	January 5, 2026
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General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to www.irs.gov/FormW9.

What's New

Line 3a has been modified to clarify how a disregarded entity completes this line. An LLC that is a disregarded entity should check the appropriate box for the tax classification of its owner. Otherwise, it should check the "LLC" box and enter its appropriate tax classification.

New line 3b has been added to this form. A flow-through entity is required to complete this line to indicate that it has direct or indirect foreign partners, owners, or beneficiaries when it provides the Form W-9 to another flow-through entity in which it has an ownership interest. This change is intended to provide a flow-through entity with information regarding the status of its indirect foreign partners, owners, or beneficiaries, so that it can satisfy any applicable reporting requirements. For example, a partnership that has any indirect foreign partners may be required to complete Schedules K-2 and K-3. See the Partnership Instructions for Schedules K-2 and K-3 (Form 1065).

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS is giving you this form because they



► Contract Reservations

Contract Reservations

H2M reserves the right to negotiate reasonable insurance, liability, and claims provisions that are consistent with industry standards and the standard of professional care applicable by law.







architects + engineers

