



PROPOSAL FOR

227

Engineering Services for Water Exploration Engineer | RFP #2025-W02

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Proposal for

Engineering Services for Water Exploration Engineer RFP #2025-W02

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04.01.2025

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



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pcole@h2m.com

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architects + engineers

119 Cherry Hill Road, Ste 110 Parsippany, NJ 07054 1 tel 862.207.5900 ENGINEERING NJ #24GA28019100 LAND SURVEYING NJ #24GA28019100 LANDSCAPE ARCHITECTURE NJ #24GA28019100

April 1, 2025

Ms. Marilyn Regnar Secretary of the Authority Morris County Municipal Utilities Authority 370 Richard Mine Road Wharton, NJ07885

RE: Proposal for Professional Services for Water Exploration Engineer | RFP#2025-W02

Dear Ms. Regnar:

H2M Associates, Inc. (H2M) is pleased to submit a proposal to the Morris County Municipal Utilities Authority (MCMUA) to provide professional services as Water Exploration Engineer. 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. 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 well-rounded skillset and our Parsippany office being just 10 miles from MCMUA, we are well-suited to be your consultant for this work.

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 mapping, determination, computation, and management plans.

We propose Karen Benson, P.G., to lead this work as Project Director. She has more than 30 years of experience working with a variety of water systems and assisting clients in responding to ongoing and everchanging 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. In addition, I will make sure your expectations are met for all projects associated with this appointment and oversee and support the work of Ms. Benson as the Principal-in-Charge. I lead H2M's wastewater and water infrastructure practice in the State of New Jersey and have more than 20 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.

MMX.CM

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, 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.

TAB 1



Project Understanding & Scope of Services



Project Understanding

The Morris County Municipal Utilities Authority (MCMUA) is a regional utility institution, responsible for managing water supply as a key function. The water supply aspect of MCMUA operations is regulated under Public Water System ID No. NJ1432001. Based on the MCMUA's descriptive documents, H2M understands the following regarding the MCMUA water service areas and supporting infrastructure:

"The MCMUA Water Division provides water to municipal and commercial water systems serving Morris County. The water is from eight wells drilled into deep underground aquifers in two well fields. These wells pump up to 218 million gallons per month."

A systemic view of MCMUA water infrastructure is depicted below at Figure No.1:





Figure No. 1 - MCMUA Service Area

H2M understands that MCMUA uses a system of source, treatment, transmission, and distribution infrastructure to serve the following municipalities and partner utilities:

- Denville Township.
- Jefferson Township.
- Mine Hill Township.
- Mount Arlington Borough.

Project Understanding & Scope of Services



- N.J. American Water Company.
- Parsippany-Troy Hills Township.
- Randolph Township.
- Roxbury Township.
- Wharton Borough.
- Southeast Morris County MUA.

It is understood that the MCMUA maintains the following well fields, as its primary sources of raw water:

- Alamatong Well Field in Randolph (diversion limit: 128 MGM).
- Flanders Valley Well Field in Mt. Olive Township (diversion limit: 90 MGM).

Finally, NJDEP maintains the following information (see below, Figure No. 2) regarding water allocation and firm capacity for MCMUA, updated as of April 2024:

MORRIS COUNTY	MUA			
PWSID: 1432001 County: Morris				
Last Updated: 04/04/2024				
Glossary of Terms Listed Below				
Water Supply Firm Capacity: 8.496 MGD				
Available Water Supply Limits				
Monthly Limit Yearly Limit	Allocation 218.000 MGM 2129.000 MGY	Contract 0.000 MG 0.000 MG	Total M 218.000 MGM Y 2129.000 MGY	
Water Demand				
Daily Demand Monthly Demand Yearly Demand	Current Peak 6.592 MGD 204.351 MGM 1704.843 MGY	Date 07/2020 07/2020 2020	Committed Peak 0.000 MGD 0.000 MGM 0.000 MGY	Total Peak 6.592 MGD 204.351 MGM 1704.843 MGY
Water Supply Deficit or Surplus				
Firm Capacity Water Allocation Permit 1.904 MGD 13.649 MGM 424.157 MGY				

Figure No. 2 - MCMUA Water Allocation & Firm Capacity Information (source: NJDEP)

Specific to the subject project, MCMUA narrates the following objectives in its Request For Proposals (RFP):

- Retain a professional services advisor with expertise in the fields of water supply, infrastructure, regulatory constraints, and detailed experience in hydrogeology.
- Guide the process of identifying options, administer the review, analysis, and prioritization of those options that are best suited to increase water supplies to the MCMUA water distribution system.
- Create a document framework for, and support stakeholder input for long-range strategic water supply planning efforts, focused on reliability and designed to address water supply shortfalls and changes in system demands that may arise in the future.

"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."

Project Understanding & Scope of Services



• It is understood that all services are to be supervised by a professional engineer, licensed for practice in the State of New Jersey, with detailed experience in managing water supply infrastructure.

To support these objectives, H2M understands and commits to the following project requirements on behalf of MCMUA:

- H2M will guide the process of identifying water supply options, administer the review, analysis, and prioritization of those options that are best suited to increase water supplies in a safe, reliable manner.
- H2M understands the project's primary intent, as a long-range strategic planning effort focused on reliability, designed to address water supply shortfalls and changes in system demands that may arise in the future.
- H2M's team (see Staffing Plan and associated resumes) is deeply experienced in all matters of water supply in New Jersey, and possesses a comprehensive understanding of existing and upcoming potential changes to the NJ drinking water regulatory framework. In addition, H2M is familiar with NJ Highlands regulations, and has managed a variety of project applications involving Highlands review and oversight.
- H2M is aware of recent updates to the NJ statewide water supply master plan, and net water availability determinations on a sub-watershed basis.
- H2M is informed regarding water supply across Morris County, with a depth and breadth of experience serving various Morris County municipalities and utility institutions. We plan to serve MCMUA from our North Jersey Regional Office, located in Parsippany.
- Of particular importance, our team's technical initiatives will be led by the esteemed hydrogeologist Karen E. Benson, P.G. Ms. Benson is deeply experienced in matters of groundwater supply, specific to varied geography of Northern New Jersey, and will be of unique value to MCMUA in helping chart its water supply planning efforts, out to a multi-decade planning horizon.

H2M's detailed proposed scope of services is narrated below.

Scope of Services

H2M proposes to support MCMUA with the following suite of professional services:

Task 1 – Workplan and Long-Range Water Supply Assessment

The first task constitutes a multi-step portfolio of services, wherein H2M will work collaboratively with MCMUA leadership and operations personnel, in addition to third party contributors (such as NJDEP and Highlands regulators) to understand the various constraints related to long-term water supply planning in Morris County.

 Prepare Work Plan Outline – H2M will convene an initial workshop meeting to determine chain of communication among MCMUA stakeholders, and transition to a due diligence and data-gathering function where an inventory of documents and operational information will be made. Through interaction with MCMUA staff, and through collaboration with MCMUA's engineer of record, H2M will seek out system mapping, well records, water allocation permits applications and associated NJDEP staff reports, record drawing for infrastructure assets including inactive assets, pumping and demand records, water sale and purchase agreements, and water quality results.







- 50-Year Demand Projection Via outreach to customer municipalities and utility institutions, H2M will perform a comprehensive inquiry regarding future demand projections, out to a planning horizon of 50 years. In addition, H2M will perform research through public planning information available at the regional and State levels.
- Review of Adjacent Systems for Surplus Allocations Simultaneous to our demand inquiries, H2M will submit queries to both a range of regional utilities and to NJDEP Bureau of Water Allocation regarding surplus allocations and the potential for administrative transfer, including logistical constraints.
- Review of Hydrogeology for New Source Options H2M will perform a survey review (via NJ DataMiner, and via various published technical and academic documents) regarding the viability of constructing and permitting new groundwater sources on behalf of MCMUA. H2M's review will include potential locations, depths, potential for well productivity, likelihood of encountering primary and secondary drinking water contaminants, and other related logistics.
- Review of Constraints (Climate Change, Contamination) H2M will review the potential effects of climate change, with data and constraints primarily derived from predictive results published and available in the public domain, via the Rutgers University NJ Climate Change Resource Center, and via USGS data applicable to the New Jersey Highlands region.
- Review of Regulations (Allocation, Highlands, New MCLs) Concurrent to the reviews of hydrogeology and physical constraints, H2M will review potential regulatory boundary conditions for any new, potential raw waters sources. These reviews will include constraints upon water allocation, watershed baseflow, construction and/or pumping limits imposed by Highlands regulations, and water quality guidelines either currently enforced by NJDEP, or likely to become part of NJ regulations inside of the 50-year planning horizon. For example, H2M will review and discuss the implications of pending NJ regulations for 1,4-Dioxane in drinking water.
- Long-Range Water Supply (LRWS) Assessment (Future Work) Upon completion of the Workplan (which is characterized as a comprehensive water supply due diligence, focused on hydrogeology), H2M will transition to a detailed combination of engineering services. H2M's content focus during the LRWS Assessment will be alternatives analysis for the various options discovered during Workplan compilation. A rubric will be developed based on the Workplan for Levels of Service (i.e., capacities, redundancy, flow control requirements, etc.) The analytical criteria for water supply options will include estimates for capital costs, operational costs, logistical constraints, and analysis of delivery timeline all to be integrated into a multi-option summary, scored in a manner to be agreed upon with MCMUA leadership. As a basis for scoping, H2M will use AWWA Manual M50 (Water Resources Planning) as a guidance document. However, it is important to note that H2M's proposed scope has been budgeted and limited to meet MCMUA's RFP, using Manual M50 as guidance.

Task 2 – Meetings

H2M anticipates convening and administering three workshop-style meetings on behalf of MCMUA, and attendance at one quorum of the MCMUA Board of Commissioners, to support multi-party inputs to both the due diligence and reporting processes associated with the overall project. The following meetings are planned-upon:

- Initial Work Session.
- 1st Interim Workshop (for final draft review of Task No. 1 Workplan).

"H2M has the depth and breadth of experience serving various Morris County municipalities and utility institutions."





- 2nd Interim Workshop (for final draft review of Task No. 1 LRWS Assessment).
- MCMUA Board Meeting (for final recommendation presentation to MCMUA).

► Task 3 – Allowance, Unanticipated, and Unexpected Work

Scope and deliverables to be determined and utilized only at MCMUA discretion (includes prescriptive \$5,000 budget line item).

Deliverables

Task 1 – Workplan and LRWS Assessment

H2M will prepare the deliverables in two sub-task phases:

- Workplan To be formatted and delivered as a technical memorandum addressed to MCMUA, drafted in MS Word and finalized upon review in Adobe Acrobat. Supporting documents will be incorporated via electronic reference in the memorandum's bibliography.
- LWRS Assessment To be formatted as an engineer's report, incorporating and building upon the results of the Workplan memorandum, expanded to include alternatives analysis and recommendations. Report will be prepared under the supervision of a Professional Engineer licensed for practice in the State of New Jersey, with primary groundwater-related technical analysis by a Professional Geologist with a practical focus on hydrogeology and water supply.

Task 2 – Meetings

For all meetings cited above, H2M will convene the discussion, either in person, or via teleconference, or via a combination thereof, and manage meeting documents on behalf of MCMUA (agendas, attendees lists, minutes). Same will be delivered in MS Word format, and memorialized upon review in Adobe Acrobat file format.

Task 3 – Allowance, Unanticipated, and Unexpected Work

Scope and deliverables to be determined and utilized only at MCMUA discretion.

Notes and Exceptions

- Design and Permitting H2M's scope of work is limited to analysis and reporting, and specifically excludes design activities related to any of the subject water supply infrastructure options.
- Meetings H2M's scope of proposed meeting service is limited to those explicitly described above. Additional meetings may be performed at the direction of MCMUA, through use of either Task No. 3 budget, or via contract amendment.
- Limitation of Scope H2M specifically limits its scope of analysis to the subjects and variables narrated above. Water supply planning can and often does have a wide-ranging scope of review. To honor project schedule objectives and to maintain an efficient budget, H2M will focus on the most relevant aspects of water supply planning, with a focus on groundwater options, and specifically excluding the review and analysis of potential surface water sources.





Proposed Schedule

H2M understands that MCMUA has specific schedule objectives for the subject project.

- Month 1 Upon receipt of contract authorization, H2M will convene and administer an initial work session meeting with MCMUA leadership. H2M will use this meeting to establish hierarchy of communication and document an inventory of existing system information (in terms of system mapping, as-built information, well records, water quality, and demand information). H2M will initiate the Workplan element of Task No. 1, and perform the due diligence and technical research tasking as described above.
- **Month 2** H2M will continue technical research and due diligence activities, and the further narrative editing of the Workplan element of Task No. 1.
- **Month 3** Completion of the Workplan element of Task No.1, review of the final Workplan draft via a second workshop meeting with MCMUA stakeholders, and incorporation of MCMUA comments to finalize the Workplan, and transition over to LRWS Assessment activities.
- Month 4 H2M will initiate technical analytical activities associated with the LRWS Assessment.
- Month 5 H2M will continue technical review, alternatives analysis, costing and logistical analyses, and work toward a complete draft of the LRWS Assessment document.
- Month 6 Completion of the LRWS Assessment element of Task No. 1, as a final draft, and review via a third and final workshop session with MCMUA operational leadership. Upon receipt and incorporation of MCMUA comments, H2M will finalize the LRWS Assessment document and participate in one (1) formal meeting of the MCMUA board, to deliver a final recommendation presentation for adoption of the Assessment document.

It is important to understand that this is a preliminary estimation of the project delivery timeline and associated milestones, and includes the assumption of good-faith participation by third party stakeholders. H2M will work with MCMUA to ensure timely project implementation, to the greatest extent reasonably practicable.

"H2M will work with MCMUA to ensure timely project implementation."

TAB 2



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, proud of our long history of client service and consistent ability to meet tough architectural, engineering, and environmental challenges head-on. Since 1933, H2M has helped plan, design, and build many of our local communities: from water treatment facilities to firehouses, schools to road reconstruction, and Environmental Site Assessments (ESAs) to groundwater remediation. Since our early roots, our focus has remained steadfast: to provide quality service with sound judgment and serve our clients as an honest and professional resource. We offer a practical approach with creative results.

Our Staff

H2M prides itself on the breadth of its comprehensive in-house service capabilities. With a diverse staff of more than 580 engineers, architects, surveyors, scientists, planners, landscape architects, inspectors, and technical support specialists, we offer our clients the benefit of a full "under one roof" consulting network.



OPERATING PHILOSOPHY

Our People

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

Our Clients

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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.

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.

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 Services

- 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

Remedial investigations/feasibility studies .

Planning

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Support

Urban Design Design Guidelines Renderings

Wastewater Engineering

Downtown Revitalization

Expert Private Testimony

Municipal Board Representation

Comprehensive Master Planning

Community Visioning Zoning Ordinances and Analysis Redevelopment Studies and Plans Geographic Information Systems (GIS)

Feasibility Studies and Conceptual Plans

Characterization/quantification of waste Treatment facility evaluation Scavenger waste facility design

Outfalls and leaching systems design

Nutrient removal treatment systems design

Chemical feed systems design Monitoring and control systems

Vastewater treatment studies Wastewater treatment studies Wastewater reuse design

UV and chemical disinfection systems

User cost analysis Sanitary sewer design Sewer rehabilitation studies and design

Pump station evaluations and design

Geographic Information Systems (GIS)

Plant performance monitoring Preparation of O&M manuals Facility start-up and operations Groundwater/effluent monitoring programs

Sewer system extension planning

Infiltration/Inflow evaluation

Discharge monitoring reports

Industrial pretreatment programs

Prepare/revise sewer use ordinance

Water freatment systems Water filtration systems design VOC removal treatment systems design

Distribution system analysis and design

Automated mapping/facilities mapping Storage tank rehabilitation/repainting Storage tank design

Comprehensive groundwater modeling Geographic Information Systems (GIS)

Aquatics and park design

O&M programs

Training programs

Asset management

Public swimming pool design

Tank and coatings inspection Instrumentation and computer control designs

Distribution hydraulic modeling

Sewer flow modeling Security systems

Operator training

Supply well design

Plant rehabilitation design

Water Engineering

Standby power systems Sludge thickening, dewatering Sludge treatment, disposal

Odor control

Parks, Open Space and Recreation Planning Environmental and Natural Resource Planning

SEQRA and EIS Documentation and Process

- **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

Landscape planning Illustrative renderings Landscape architectural detailing

Streetscape and urban design

Parks and playgrounds design

Campus landscape design Private estate and residential design

Electrical systems designFeasibility and implementation studies

Exterior and interior building services

Emergency power generation Site/systems and load evaluations

Site lighting design Fire and security systems SCADA systems

Heat and cooling load analysis

Laboratory ventilation systems Site/systems evaluations Feasibility/implementation studies

2

HVAC systems design

Heat recovery systems Chillers and cooling towers

Energy conservation Cost/benefit analysis

Commissioning/testing

Steam systems

Hydronics

Closed-circuit television security systems

Utility company rebates and incentives

Conceptual site design

Planting design

Power supply

Energy studies

Wetlands mitigation

Green infrastructure

Tree mitigation Landscape design and restoration

.

MEP Services





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
- 7 100 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, 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.

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 companywide 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.



- 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

Water Supply Engineering Clients

Parsippany-Troy Hills Water Department

New Replacement Well and Treatment Building (2020-Present): Design, permitting, well construction oversight and testing, modification to Water Allocation Permit, obtain Minor Diversion from NJ Green Acres and County Open Space for the new well and proposed treatment building, new well, and treatment design, and provided IBank assistance.

 Sean Andres, Water Department Superintendent (973) 263-7108

Township of Wall

Construction of Wells 10 & 11,Wall, NJ (2019-Present): Design, permitting, well construction oversight and testing, Construction administration, design services during construction, regulatory coordination, and construction observation for the replacement of two major municipal production wells intended for potable service for the Township of Wall, located in Monmouth County, NJ

 Joseph Langel, Water Department Superintendent (732)449-8444, Ext. 2219

Jackson Township Municipal Utilities Authority

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

 David Harpell, Executive Director (732) 928-2222

Borough of Mt. Arlington

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

 Carolyn Rinaldi, 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.

Well 25 New Well Treatment Building: Design of a new treatment building for a new well drilled as part of an allocation transfer in a Critical Water Supply area. The new plant included 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.

 Joseph E. Stroin, Jr., P.E., Director (732) 521-1700

City of Newark Water-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.

 Kareem Adeem, Director (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.

 Thomas Nolan, Business Administrator (732) 528-6600

NJ American Water - Raritan Service Area

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 NJDEP.

 Robert Biehler, P.E., Project Manager (908) 431-3230

Mountain Station Rehabilitation: Overhaul and rehabilitation of a well station in Somerset County, composed of three wells with a combined capacity of 1,100 gpm. Scope included well TV inspection, pump testing, interaction with 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. 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.

 Donald Shields, P.E., Director of Engineering (856) 346-8200

NJ American Water - Coastal North Service Area

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).

 Donald Shields, P.E., Director of Engineering (856) 346-8200

Veolia Toms River

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

 Frederick Austin, Project Manager (732) 557-7763

Village of Ridgewood

West End & Wortendyke Well Station 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.

 Richard Calbi Jr., P.E., P.P., Ridgewater Water Director (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.

 Michael Lata, Water Superintendent (862) 228-3563



Zone Water System Upgrade





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 services, construction observation services and commissioning consultation during the project startup and during the two year maintenance period.

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.



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 Observation 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. NJ Allance for
 Distinguished I
 ACEC-NY Englished I

AWARDS

- NJ Alliance for Action
 Distinguished Engineering Award
- ACEC-NY Engineering Excellence
 Awards Gold
- ACEC-NJ Received Honor Award for a Non-Transportation Project



Iron Removal & Chemical Feed System Design





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 observation 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.

Hydraulic Evaluation and Water Main Replacement





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.

Hydraulic Modeling





Using computer-based hydraulic modeling software, our team analyzed the Township's water distribution system to determine demands under different scenarios to assist West Caldwell in identifying available fire flow in areas to be redeveloped.

The West Caldwell water system supplies water to virtually all of the residences and businesses within the Township. A small number of properties obtain their water supply from individual wells. The principal source of supply for West Caldwell is from the Passaic Valley Water Commission (PVWC). West Caldwell also has emergency supply interconnections with the Jersey City Municipal Utilities Authority and New Jersey-American Water Company. A small portion of the Township is supplied by North Caldwell, which obtains its water supply from Essex Fells. Due to the wide range of elevations in the Township, the system is divided into three separate pressure service areas. Major facilities within the system include three storage reservoirs and two booster pumping stations.

In years past there had been several applications in the Township of West Caldwell for the redevelopment of commercial and industrial properties with increased fire protection demand. The Township desired to have a reference document that would list the available capacity for fire protection in the industrial and commercial areas of the Township that could be used to inform developers of the available capacity for fire protection prior to their design of fire suppression systems. We developed a hydraulic model and reference documents to assist the developers and Township in their efforts. Our analysis was performed using hydraulic modeling software and utilized the existing hydraulic computer model for the West Caldwell water system that we previously prepared. The hydraulic model was calibrated using the results from the hydrant flow tests, together with information obtained from pressure recorders installed by our staff.

Flows were reported for 25 select locations near the areas of redevelopment. These locations were selected by West Caldwell in conjunction with our firm. A total of 16 computer simulations were run under various conditions to estimate the available flow to the identified locations. The simulation conditions included peak and off-peak hourly demands, seasonal demands, and different operating statuses of water distribution system assets like interconnections, pump stations, and water storage tanks. Additionally, flows were also estimated for both a maximum available flow and an allowable flow. The maximum "available" flow is what can be delivered by the system to that location irrespective of how the system pressure is affected in other parts of the distribution system. The "allowable" flow is what can be delivered to that location while maintaining a minimum of 20 psi residual pressure throughout the distribution system.

A report which identified areas of concern, key map, and summary tables were produced from the results of the analysis for use by the Township and developers.

Drinking Water Source Protection Plans



NYS Office of General Services

Various Locations, NY

Construction Cost: N/A

SERVICES Provided

DWSP2 Reports Drinking Water Source Assessment Environmental Site Analysis

H2M provided technical assistance in developing a Drinking Water Source Protection Plan (DWSP2) and report for Town of Fishkill, Village of Monroe, Village of Ossining, and the City of Peekskill.

H2M collaborated with the Barton and Loguidice team, under a contract through the New York State Office of General Services (NYSOGS) and managed the DWSP2 preparation.

Guided by New York State's Framework for Creating A Drinking Water Source Protection Program, we partnered with four municipalities to ensure they maintain access to a safe and dependable supply of drinking water. For each municipality, we reached out to potential stakeholders with local knowledge of the current conditions of the water supply. The stakeholder groups consisted of various town and village officials, engineers, and planning board members. We assisted the stakeholder groups with drafting a vision statement and creating goals for the future of their drinking water. Using an Annual Water Quality Report, we provided a comprehensive assessment to the stakeholder groups on their water systems. Additionally, based on the framework's delineation methods, the municipality's source water and critical areas were identified. Then, based on those areas, potential contaminant sources were identified using publicly available data and local knowledge provided by stakeholder groups. Protection and implementation strategies, with timeframes, were selected based on the potential contaminant sources.

By establishing a Plan Management Team for each municipality, we ensured the protection of their drinking water source and the successful implementation of the visions and goals set out by the DWSP2.

All four plans were approved by the State and adopted by their municipality.





New Well and Pump Station



Bethpage Water District

Bethpage, NY

Construction Cost: \$2.1 million



Water Resources Development Water Resource Design Interior/Exterior Lighting Power Distribution Systems Emergency Generator Systems Motor Control Centers

PLC Control Systems Instrumentation and Controls

Electrical and Instrumentation Upgrades

Construction Administration

Construction Observation



The Bethpage Water District retained H2M to provide engineering services for a new 2,000 gpm well with a variable frequency drive.

The Bethpage Water District needed supply capacity outside the influence of the Grumman Plume. To enhance the District's capacity, H2M designed a 655 feet by 24" diameter well with a 2,000 gpm capacity and a variable frequency drive to allow the well to vary its pumping capacity as the pressures in the system fluctuated. The well gave the District the ability to provide water and adjust the flow at higher system pressures so it can stay in operation longer.

The design included an automatic gate and warning system for when vehicles enter the site to prevent collisions with bikeway users. Because the site is in Bethpage State Park, the building design resembled that of an adirondack lodging. In addition, green design was incorporated with solar panels and permeable pavement design.

Due to the site's proximity to the Bethpage State Parkway Bikeway Extension, permits from the New York State Department of Transportation (NYSDOT) and the New York State Office of Parks, Recreation and Historic Preservation (NYSOPRHP) were required.



Engineering Services





H2M provides professional engineering services to the Department related to water supply, treatment, distribution, pumping, and storage throughout the area.

The Village of Nyack Water Department serves approximately 15,000 people through 3,000 service connections in the Village of Nyack, South Nyack and portions of the Town of Clarkstown in Rockland County, NY. The Village's Water Treatment Plant draws water from the Hackensack River which begins at the spillway from Lake DeForest Reservoir. The plant provides aeration, coagulation, flocculation, sedimentation and filtration with an average plant production of approximately 1.5 MGD.

H2M provides professional engineering services to the Department related to water supply, treatment, distribution, pumping, and storage throughout the area. In addition to designing the original Water Treatment Plant in 1969 and continuous operator assistance, recent engineering services have included plant repairs and enhancements with flocculator and pump replacement, chemical process modification, electrical system and control equipment upgrades; plant flood protection; spill containment; distribution system improvements, inspection, cleaning and repair of water storage tanks and reservoirs; security protection; and fencing.



LICAP Groundwater Management Plan





H2M prepared the Groundwater Management Plan for Long Island, which is comprised of short- and long-term risks and recommended actions to mitigate the risks to the aquifer system.

Nearly 2.8 million people inhabit Long Island and are dependent upon three aguifers, collectively viewed as "the aguifer", which is the sole source of water supply. The Long Island Commission for Aquifer Protection (LICAP) was enabled by state legislation allowing for the Nassau and Suffolk County legislature to enter into intermunicipal agreements, setting the operational terms and conditions of a Commission. This would build on existing studies, identify research areas, and program opportunities to prevent further deterioration of the bi-county sole source aquifer system and identify mechanisms for improving its water quality and safeguard quantity. The LICAP is charged with gathering data on groundwater issues, preparing an annual State of the Aquifer Report, and a Groundwater Resources Management Plan. LICAP was directed to establish two subcommittees: the 2040 Water Resources and Infrastructure Subcommittee (2040 WRIS, WRIS) and Water Resource Opportunities Subcommittee (WROS). The WRIS committee identifies long-term risks to the water supply created by global climate change and recommends short-term measures to mitigate these risks, including development of well placement criteria, mechanisms for hardening distribution system infrastructure in coastal areas, and loss mitigation strategies. The WROS committee is directed to identify and quantify short-term risks to groundwater resources.

H2M's analyses and assessments help developed reports for the LICAP, on behalf of the SCWA, which involved:

WRIS Report: This report identified key changes of concern to Long Island water resource management and sustainability. H2M evaluated the resource impacts and long-term risks and developed recommendations to strengthen against these risks

WROS Report: This report focused on short-term risks to groundwater resources, including known contamination impacts, addressed emerging contaminants, evaluated suppliers likely to be impacted, and developed responses for mitigation.

Private Well Report: Over 35,000 properties on Long Island are serviced by private wells. This report involved developing an estimate of the number of private household wells, delineating the sources of information used in the derivation of the estimate; and making an estimate of approximate infrastructure needs to connect them to public water and the costs and pumpage to meet the average and peak demand needs of these connections.

LICAP Groundwater Management Plan: H2M expanded three sections of the draft LICAP Groundwater Management Plan. Nearly 65% of Suffolk County's 1.5 million people are served by on-site septic systems. Environmental impacts of nitrogen and phosphorous on water bodies, tributaries and the aquifer are of increasing concern. The Wastewater Management section required additions to address recovery, reuse, and potential recharge of wastewater, and a discussion of costs and possible health impacts. For the Reactivation of Public Supply Wells in Queens section, H2M added a discussion of the possibility of NYCDEP supplying potable water to western Nassau suppliers experiencing saltwater intrusion. The section on Groundwater Quality and Quantity Threats was expanded with a description of Regional Contamination Events in Suffolk County. H2M also

Water System Assessment Report



Suffolk County Water Authority

Oakdale, NY

Construction Cost: N/A



Water Supply Evaluation Water Supply Assessment Management Review Financial Review



H2M prepared a Five Year Report for the Suffolk County Water Authority (SCWA) by examining their water system facilities and operations.

H2M was engaged by the SCWA to prepare a five year report of their system. SCWA services 1.2 million people. This report served as the basis for the development of the SCWA five year capital plan. H2M assembled a team of engineers with extensive Long Island water supply experience to conduct on-site inspections and prepare summary reports of 99 facilities, which represents almost 30% of the total facilities within the Authority's water system. The selected facilities were chosen based on the following instructions:

- Inspect a representative sampling of all types of facilities (supply, treatment, storage, etc.)
- Inspect representative facilities that were not evaluated as part of the previous five year report
- Re-inspect facilities that received a marginal rating as part of the previous five year report

Of the 99 facilities inspected, 85 were not included as part of the previous five year report; 14 facilities inspected during the previous five year report were re-inspected; one facility was selected at the request of the Authority; and 13 facilities were inspected that previously received a lower rating compared to others.

During the physical inspections, observations were made on the structural, mechanical, electrical, safety, and security attributes of the facility. These observations, paired with the examination of data and interviews with key personnel, were documented in the inspection report along with photographs.

A uniform rating system was developed to evaluate the components of each facility. While actual components varied from facility to facility, utilizing a uniform rating system allowed for an "Overall Facility Rating" to be assigned. Such a rating system allows for the comparison of any two facilities, regardless of its individual components.

TAB 3



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.

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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 AWWA Manual of Practice M64, Co-Author

Memberships

American Water Works Association Water Environment Federation National Fire Protection Association

Honors

AWWA NJ Fresh Ideas Award, 2007 Next Generation Award, 2009 Steel Tank Institute: 2013 Tank of the Year

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

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

Vice President, Deputy Market Director of Water/Wastewater



With more than 20 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.

Selected project experience

- 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.
- Borough of Spring General Services; Spring Lake, NJ: Principal-in-Charge for as-needed support to the Borough of Spring Lake. Projects have included a water treatment asset inventory and assessment and water storage tank inspections.
- 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 Brielle Water Quality Accountability Act Compliance; Brielle, NJ: Practice Leader responsible for providing assistance in completing the required forms for compliance with the Water Quality Accountability Act, including gathering and reviewing all existing record documentation related to distribution system assets and their conditions/ages. The recent legislation in New Jersey known as the Water Quality Accountability Act sets requirements for all community water systems, including routine maintenance and exercising of hydrants and valves, as well as formal documentation of water system assets and their conditions.
- Borough of Brielle Water Quality Accountability Act Compliance; Brielle, NJ: Practice Leader responsible 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.
- Borough of Ringwood Public Water System Operational Support and Regulatory Compliance Coordination; Ringwood, NJ: Practice Leader responsible for review of the Borough's existing regulary 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.
- Sisters of Charity Water Infrastructure Improvements; Morris, NJ: Practice Leader to support the Sisters
 of Charity of St. Elizabeth in retiring their independent/private water status, and assume the status
 of retail customers to the local public water franchise-holder, New Jersey American Water. Led the
 development of a New Jersey American Water service connection application, NJDEP coordination, and
 outreach to municipal fire sub-code officials.

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

Vice President, Deputy Market Director of Water/Wastewater



- Township of Wall Wall Township Wells No. 10 and 11 Replacement; Wall, NJ: Principal-in-Charge for the construction observation of the replacement of two wells. The two original public water system wells were under-producing and required replacement to return them to their original rated capacities.
- New Jersey American Water (NJAW) Bridge Attachment Evaluation and Rehabilitation; Flemington and Readington, NJ: NJAW owns and operates a public drinking water utility franchise in Hunterdon County, including a 16"-diameter transmission main with routing along the corridor of State Highway Route 202. This pipe alignment includes aerial "bridge attachment"-type crossings at three existing bridges. These bridges carry Route 202 over the Raritan River, and two railway linear properties. As Project Manager, led engineering services to characterize the condition of the bridge attachments and service pipe, and assist in renewing the condition of the crossings for long-term future service.
- Brick Township Municipal Utilities Authority (BTMUA) Main Crossing Condition Assessment; Brick, NJ: Project Manager responsible for providing professional engineering services for an assessment to determine the condition of 14 existing water main stream crossings and three traditional buried pipe installations in the Cedar Village Development where corrosion was strongly suspected as a chronic failure mechanism.
- 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 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.
- 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.
- New Jersey American Water (NJAW) Shark River Intake Dredging; Neptune, NJ: Project Manager responsible for acting as act as agent and advocate for NJAW in the coordination and preparation of all materials, technical documentation, and communication as required to secure necessary regulatory approvals for the dredging of the Shark River Intake.
- Veolia Water Main Replacement; Cliffside Park and Ridgefield, NJ: Under contract with Veolia, formerly
 known as SUEZ, served as Project Manager for the engineering design, bidding, and construction
 observation services for the relocation and replacement of existing 6" water main with 8" ductile iron
 main in Cliffside Park and Ridgefield, NJ.
- Borough of Spring Lake Water Distribution System Hydraulic Modeling; Spring Lake, NJ: Project Manager for hydraulic modeling for the Borough of Spring Lake. The Borough's distribution system had exhibited an increased frequency of water quality complaints and uptick in frequency of water main breaks. In response, the water system was documented, modeled, and characterized in terms of its responses to various demand stresses. The model was used to develop a set of priorities for improvements necessary to operate and maintain the water system in a robust fashion, compliant with the regulations governing such systems in the State of New Jersey, and reflective of industry best practices for municipal water supply management.
- 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.
- Brick Township Municipal Utilities Authority (BTMUA) Water Supply Master Plan Update; Brick, NJ: Project Manager responsible for providing professional engineering services to evaluate planning and source-water asset management to improve resilience and reliability for process water quality and quantity. The combined risks of upstream drought conditions and downstream chronic approach of the salt line represented a planning challenge that BTMUA needed to address. Given its operating responsibility as a regional utility, the BTMUA and its partner agency New Jersey Department of Environmental Protection (NJDEP) sought guidance on a variety of potential solutions to increase the reliability of its supply.
- New Jersey American Water (NJAW) Route 71 Water Main Replacement; Neptune, Asbury Park, Loch Arbour, and Allenhurst, NJ: Project Director responsible for oversight of design and construction observation services for the installation of new water main along State Highway 71.



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

Karen Benson P.G.

Associate, Practice Leader - Water Resources



Ms. Benson is a hydrogeologist with more than 30 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.S., Civil and Environmental Engineering; Cornell University

Licenses/ Certifications

Professional Engineer: NJ OSHA 40-Hour HAZWOPER OSHA 10-hour Construction Safety & Health H2M Mentoring Program Graduate, Mentee

Rachel A. Kim RE.

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.

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.
- Bremo 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.



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, DE, PA, CT, FL, LA, HI

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

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

Memberships

American Water Works Association Long Island Water Conference

James L. Neri P.E., PMP Senior Vice President, Director of Engineering

H 2 M

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.

Selected project experience

- 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.
- Stone Hill Contracting New Treatment Facility; Wanaque NJ: Technical Director that oversaw design services and preparation of contract documents, plans, and specifications for a new North Jersey District Water Supply Commission (NJDWSC) facility, on behalf our client, Stone Hill Contracting.
- 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 County 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.
- 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.


B.S., Civil Engineering; Clemson University

Licenses/ Certifications

Professional Engineer: NY, CT LEED Accredited Professional, USGBC Project Management Training Program, H2M

Memberships

American Water Works Association, New York Section

John R. Collins P.E., LEED AP

Senior Vice President, Discipline Director - Water Resources



Mr. Collins is H2M's Discipline Director of Water Resources. With over 25 years of specialized experience in managing and working as a senior engineer on water transmission, distribution, and treatment system projects, he has demonstrated exceptional expertise in the water industry. His extensive background uniquely qualifies him to assume full leadership of the group. Mr. Collins is responsible for overseeing and guiding the overall direction of water-related projects for H2M. This includes managing and leading the water resources team, providing strategic vision, and ensuring the successful execution of water transmission, distribution, and treatment system projects.

Selected project experience

- Hampton Bays Water District Subaqueous Water Main Crossings; Hampton Bays, NY: Project Director responsible for oversight on the design of a 3,400 subaqueous water main crossing of Shinnecock Bay to replace a failed pipe and a second crossing of 1,000 feet under Shinnecock Canal to increase fire flow capacity to an isolated section of supply area. Both performed via directional bore.
- Hicksville Water District Water Main Replacement Project; Hicksville NY: Project Manager tasked with the design of 22,000 feet of new cement lined water mains to replace aging infrastructure with a history of failures including new pavement section.
- Riverhead Water District Edwards Avenue Filtration System; Riverhead, NY: Project Manager tasked with designing a filter system, pump upgrades, piping, drainage mechanisms, as well as selecting the resin coatings based on water quality to remove perchlorate from a ground water supply well.
- Hampton Bays Water District Springville Road Transmission Main; Hampton Bays, NY: In the role of Project Manager, accountable for all aspects of design of a transmission main for the efficient transfer of water to a low-pressure area. Doing so involved calculating headloss, pipe size, designing a water main, and determining the sizing of a directional bore based on deflection, entry, and exit angles.
- Franklin Square Water District Wellhead Treatment at Schroeter Avenue; Franklin Square, NY: As
 Project Engineer, responsible for producing the design plans for a complete groundwater treatment
 system for the removal of volatile organic compounds from groundwater supply wells. Designing the
 treatment system entailed choosing the piping, duct work, pumps, tanks, blowers, and tower aerators
 that comprise the groundwater treatment system.
- Oyster Bay Water District Sagamore and Laurel Cove Extension; Oyster Bay, NY: Project Engineer
 responsible for the design of a water main network to provide potable public water to homes with
 contaminated supply wells. As well as redesigning the water main, was responsible for designing a
 section of pavement and determining fire flows and pipe size.
- South Huntington Water District Mount Misery Transmission Main; Huntington, NY: In the role of Project Engineer, designed a new water main to improve the flow of water from a single entry point into a larger distribution network. This also included developing the strategy to install piping for the water main via directional boring.
- Riverhead Water District Pressure Filtration at Middle Road Well Field; Riverhead, NY: Project Director
 responsible for oversight of the design and construction of two separate groundwater treatment systems
 for the removal of organic (manganese and iron) and inorganic (PFA) compounds from potable water
 wells, which included pump design, filtration systems, piping, chemical systems, as well the civil
 engineering aspects of installing the pressure filter systems.
- Hicksville Water District Emerging Contaminant Treatment at Dean Street; Hicksville, NY: Project Manager tasked with the design of advanced oxidation processing (AOP) and granular-activated carbon (GAC) treatment systems to remove emerging contaminants from groundwater. Also designed corresponding pumps and chemical removal systems.
- Bethpage Water District Wellhead Treatment at Motor Lane; Bethpage, NY: Project Manager responsible for designing a multi-component treatment facility, including packed tower aeration, AOP, filtration systems and blowers, pumps, piping, waste, and chemical treatment facilities, to remediate contaminated groundwater over the course of nearly a decade.



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

David A. Sheldon R.E.

Project Engineer - Water Resources



Mr. Sheldon has 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.



M.S., Civil Engineering; Polytechnic University B.S., Civil Engineering; Lehigh University

Licenses/ Certifications

Professional Engineer: NY

Memberships

American Water Works Association Long Island Water Conference New York State Society of Professional Engineers Westchester Water Works Conference

Offices Held

American Water Works Association New York Section; Chair 2020

Awards

NYS AWWA John M. Diven, Jr. Award NYS AWWA George Warren Fuller Award

Articles/Papers

NYSAWWA: Waterborne Disease and Legionella 1/20, Sanitary Surveys 3/19, Lead and Copper Rule After Flint, 3/17, UCMR3 Early Results 2/15, Customer Complaints 8/14, Distribution System Monitoring 7/13, Hexavalent Chromium What You Need to Know 9/12, Total Coliform Rule Revision 9/11,Monitoring Program Design Basics 8/11, SDWA and the Standard Setting Process 4/10, Utilizing Indicator Organisms 3/09.

Paul J. Ponturo P.E. Senior Water Resources Engineer



As Senior Water Resources Engineer, Mr. Ponturo has been focusing on a number of regulatory and compliance issues relating to public water supplies, emerging contaminant review and monitoring program design. He is also currently involved in H2M's efforts in expanding education and outreach opportunities to water supply professional operational and planning staff.

Prior to H2M in 2008, Mr. Ponturo was the Chief of the Office of Water Resources, of the Suffolk County Department of Health Services' Division of Environmental Quality, where he served as a Public Health Engineer since 1972. The Office of Water Resources develops and enforces drinking water regulations controlling Suffolk's 400 community and non-community public water supplies, and monitor the drinking water supply as well as the quality and quantity of the groundwater resource, conducting surveys and investigations of the county's hydrogeology, participating in special studies, Suffolk's Comprehensive Water Resource Management Plan, and providing necessary technical assistance in activities to categorize the critical land use activities which effect the watershed areas of the county's public supply well sources in the completion of Source Water Assessment Program for Long Island. In addition to public and private wells sampled in the course of these activities, the Department's water resource monitoring is enhanced via an extensive network of monitoring wells and stream sampling points and test wells installed to track groundwater remediation and groundwater resource studies. As Chief, he supervised a staff of 34 engineers, hydrogeologists, sanitarians, well drillers and office support personnel. He provided training opportunities to public water supply professional staff on a wide variety of relevant issues including water supply regulations, facility requirements, water quality findings, emerging contaminants, safety, emergency planning and water resource planning.

Mr. Ponturo has been an instructor in a New York State-approved Grade IIB Water Treatment plant Operator Certification course, lecturing on the subjects of well construction, water supply disinfection, cross-connection control and regulatory requirements. He has also been a guest lecturer at Stony Brook University and Southampton College, providing students in environmental studies programs with presentations on diverse water supply and water resource topics.

For over 30 years, Mr. Ponturo has participated as a member and Vice-Chair of his Town Conservation Board in Huntington. Among other planning and site review efforts, the Board engaged in one of the first Household Hazardous Waste collection events, actively participating as a support volunteer. These initial demonstration efforts led to the Town establishment of a permanent STOP (Stop Throwing Out Pollutants) facility at the Town Recycling Center.

In 2020-2022, he served as Water Quality Technical Advisor to a team of diverse engineering, planning, and GIS consultants working with municipal and civic stakeholders in developing a series of next generation Drinking Water Source Protection Plans (DWSP2). Building on concepts for Source Water Assessment, as authorized under the Safe Drinking Water Act, the new DWSP2 "is a locally led, state-supported program that empowers municipalities to take action to improve and protect their public water sources and surrounding environment." Working with diverse stakeholders, the technical service providers helped several participating communities develop and implement their unique Drinking Water Source Protection Programs, with actionable steps to protect their drinking water sources now and into the future.

More recently, he authored the Long Island Commission for Aquifer Protection's (LICAP) Groundwater Resource Management Plan chapter on Existing Regulations and Management Regime and contributed to expanded LICAP Plan Task Reports on Private Wells, Wastewater Management and Regional Contamination Threats. This Plan built upon prior strategic water resource management planning initiatives in Suffolk County and his contributions to those efforts.

Paul J. Ponturo P.E.

Senior Water Resources Engineer

NSWCA: Emerging Contaminants, UCMR3 and UCMR4 6/19.

LIWC Symposium: 1,4-Dioxane- NYS, LI, Nationwide data Occurrences 3/17 Pharmaceuticals and Personal Care Products, Suffolk County Water Resources Management Plan Program, 6/18/08. Groundwater Rule and SWAP, LIWC Education Workshop, 3/20/08.

Water Quality & Food Processing, LI Food Technology, 6/07.

Regulatory Update, LIWC Education Workshop, 2007, 2004, 2003, 1999.

Water Distribution System O&M Workshop, NYSAWWA Training Course, 1/10/06.

Maintaining Water Quality in the Distribution System, NYSAWWA Training Course, 12/1/04.

UCMR Contaminant Occurrence, LIWC Education Workshop, 10/04.

Operator Certification Issues, LIWC Education Workshop, 11/03.

Emergency Plans and Vulnerability Assessments, NYS Rural Water Association, 10/30/03.

Emerging Water Supply Issues, NYS Water Authorities, Annual Conference, 8/6/03. Federal/State Drinking Water Protection Efforts, VEEP Training, 6/26/03.

Emerging Groundwater Contaminants, SUNY LI Groundwater Symposium, 6/6/03.

SWAP Program Status, Nassau/Suffolk Water Commissioners Association, 4/12/03.

Groundwater Quality, Southampton College Community Water Supply Forum, 3/26/03.

Articles/Papers

- Water Distribution System O&M Workshop, NYSAWWA Training Course, 1/10/06.
- Maintaining Water Quality in the Distribution System, NYSAWWA Training Course, 12/1/04.
- UCMR Contaminant Occurrence, LIWC Education Workshop, 10/04.
- Operator Certification Issues, LIWC Education Workshop, 11/03.
- Emergency Plans and Vulnerability Assessments, NYS Rural Water Association, 10/30/03.
- Emerging Water Supply Issues, NYS Water Authorities, Annual Conference, 8/6/03.
- Federal/State Drinking Water Protection Efforts, VEEP Training, 6/26/03.
- Emerging Groundwater Contaminants, SUNY LI Groundwater Symposium, 6/6/03.
- SWAP Program Status, Nassau/Suffolk Water Commissioners Association, 4/12/03.
- · Groundwater Quality, Southampton College Community Water Supply Forum, 3/26/03.
- Groundwater Contamination Emerging Issues, Suffolk County Legislature Testimony, 8/14/02.
- Coliform Rule Issues, LIWC Education Workshop, 4/13/02.
- Private Well Surveys Near Landfills, Easthampton Town Board Presentation, 3/18/02
- Cross Connection Control Program and Backflow Investigations, SCDOH Staff Training Presentation, 3/16/07.
- Coliform Rule Monitoring & Sample Collection, LIWC Education Workshop, 12/06.
- Groundwater Quality, SUNY Stony Brook Environmental Issues Course (Guest lecturer), 12/6/01, 11/18/04, 12/7/06.
- Groundwater Rule, NYSAWWA Tifft Symposium, 11/15/06.
- Distribution System Monitoring, NYSAWWA Training, 10/06.
- · Water Treatment Plant Operator Certification Program, New Regulations, LIWC, 2/13/01.
- MTBE and L.I. Drinking Water Supplies, Southampton College Supply Forum, 4/01.
- Perchlorate Occurrence in Suffolk County, NYSAWWA Tifft Symposium, 11/14/00.
- Groundwater Rule, NYSAWWA Fall Meeting, 10/12/00.
- Coliform and Groundwater Rule Issues, Nassau/Suffolk Water Commissioners Assoc., 12/15/97.
- Cross Connection Control Program and Principles, NYSAWWA Tifft Symposium, 10/29/97.
- Groundwater Problems and Supply, NYS Assoc. of Conservation Commissions, Annual Meeting, 4/97.



Experience

B.S., Environmental Planning and Design, Landscape Architecture; Rutgers University

Licenses/ Certifications

Licensed Landscape Architect: NJ

Memberships

New Jersey American Society of Landscape Architects

New Jersey Nursery and Landscape Association

Native Plant Society of New Jersey

Great Swamp Watershed Association

Carmela R. Schommer L.L.A.

Senior Landscape Architect



Ms. Schommer is a landscape architect and environmental specialist with more than 40 years of diverse site planning experience for numerous type of land use and development projects. Her experience includes property evaluations for land use planning, site design, landscape architecture, wetlands delineations, and environmental permitting. She has provided clients with expert assessment of properties to manage projects through the regulatory review process with the New Jersey Department of Environmental Protection (NJDEP) and other agencies related to land use and development.

Ms. Schommer has extensive permitting experience with filing applications on behalf of our clients to the NJDEP Division of Land Use Regulation, as they relate to Freshwater Wetlands (FWW), Flood Hazard Areas, and the New Jersey Highlands Preservation Area. Her expertise regarding FWW includes performing site specific wetlands delineations and stream and water body classifications. Permitting related to FWW includes Letters of Interpretation (LOI), Transition Area Waivers (TAW), General and Individual Permits (GP and IP), emergency permits, and wetlands mitigation. Flood Hazard Area (FHA) permitting includes verifications of flood hazard and riparian zones, applicability determinations, general permits, individual permits, and riparian zone restoration. Permitting related to the New Jersey Highlands includes applicability determinations, applications for exemptions, and pre-application meetings with the New Jersey Highlands Council.

Ms. Schommer has attended numerous workshops and seminars related to wetland plant identification, soil evaluation, and hydrology, including the Rutgers University "Wetlands Delineation Certificate Series," receiving certification in October 1999. Her education and background in the field of Landscape Architecture compliments her experience with environmental assessments and land use permitting.

Prior to joining H2M, Ms. Schommer was a principal with the firm of Schommer Engineering, Inc., for nearly 20 years and an Associate with Johnson Engineering. She held the title of Licensed Landscape Architect and Environmental Specialist, at both firms.

Selected project experience

- Home Help, LLC Residential Development; Chatham Township, NJ: Extensions and permit modifications, FWW transition area waiver averaging plan, special activity transition area waiver, and FWW general permit 10 to permit redevelopment of residential property with severe environmental restrictions.
- James Place Multi-Family Residential Development; Morris Township, NJ: FWW LOI Line verification, FHA individual permit, special activity TAW for redevelopment, TAW - averaging plan, and Statewide General Permits 6, 10A and 11 for redevelopment of vacant office property to support a 92-unit townhouse project.
- Currie Residential Property; Long Hill Township, NJ: FWW LOI Line Delineation and Special Activity Individual Permit TAW, special activity TAW for redevelopment, and FWW GP 8 to permit sale and expansion of a single-family dwelling on land with numerous environmental features.
- Morristown Field Club Recreational Site; Town of Morristown, NJ: FWW LOI Line verification and FHA verification permits for land use planning of an existing facility for potential site modifications.
- Caso Residential Property; Washington Township, NJ: Highlands exemption, FWW LOI Line verification and FHA verification permits, freshwater wetlands TAW for redevelopment, and a FWW GP 8 for reconstruction and expansion of an existing dwelling and other structures on the subject property.
- North Jersey Water Supply District Water Filtration Project; Wanaque Township, NJ: Highlands Applicability Determination and Exemption.
- Great Swamp National Wildlife Refuge Bridge Replacement Project; Harding Township, NJ: Wetlands delineation, freshwater wetlands general permit 1, and flood hazard area individual permit.



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

Licenses/ Certifications

Professional Engineer: NJ, NY

Memberships

American Water Works Association

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 →

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.



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-Specifing Engineer, 40 under 40 Award, 2020

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

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.

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.



B.S., Chemical Engineering; Manhattan College

Licenses/ Certifications

Professional Engineer: NY Project Management Training Program, H2M

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/H202 AOP Pilot Studies: In-house design of (40) 20 GPM small scale pilot studies utilizing low pressure UV/H202 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/H202 AOP Pilot Study at Plant No. 3; Plainview, NY: Inhouse design of a 40 GPM pilot study utilizing medium-pressure UV/H202 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.

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.

TAB 4

Price Proposal Signature Form

PROPOSAL TO:

Morris County Municipal Utilities Authority

FOR:

Professional Services for Water Exploration Engineer

TASK 1. Development of Work Plan

Estimated Fee: \$<u>95,000.00</u>

TASK 2. Meetings

Estimated Fee: \$15,000.00

TASK 3, Allowance for Unanticipated & Unexpected Work

Allowance: \$_5,000

Total \$115,000.00_

Firm Name:	C	
	H2M Associates, Inc.	
Signature:	Enny.Clm	

Date: __March 27, 2025__

Official Position: Vice President

<u>Note:</u> Estimated Fee Tasks require person hour breakdown and projected out-of-pocket expenses for each task. Hourly Rates table for all resources shall be provided with the proposal.





Hourly Rates

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 2025

	Hourly Rate
Principal	\$350.00
Practice Leader	\$280.00
Department Manager	\$250.00
Senior Project Engineer	\$220.00
Project Engineer	\$160.00
Staff Engineer	\$125.00

► Expenses

Expense:	Cost		
Mileage for personal or company-owned utility vehicle	.70 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		

H2M Fee Proposal Project Opportunity: MCMUA Water Exploration Engineer Owner Utility: Morris County Municipal Utilites Authority

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Phase	Task Description	Phase Description	Billing Titles and Hourly Rates														
			Staff Engineer	Project Engineer 1	Project Engineer 2	Senior Project Engineer / PM	t Senior PM / Department Manager	Practice Leader	Pr	incipal	Equipment, Travel, Lab Service, Printing	Sub Fee:	Total H2M Hours, by Task	Fee	Submittal		
		SALARY APPROX	\$ 80,00	00 \$ 101,000	\$ 110,000	\$ 140,000	\$ 160,000	\$ 180	,000 \$	225,000							
		HOURLY RATE	\$ 125.0	00 \$ 160.00	\$ 175.00	\$ 220.00	\$ 250.00	\$ 28	0.00 \$	350.00							
		LABOR MULT	3.25	3.25	3.25	3.25	3.25	3.25	5	3.25							
														•			
1	Development of Work Plan	Pronovo Wark Plan Outline	10			4		4	2				0	\$	-		
			12	•		4		4	2				22	Ф	4,200.00		
		Review Existing System Configuration - Assets	8	8		4		2	4				22	\$	3,720.00		
		50 Year Demand Projection	0	4		4		2	1				19	¢	3,430.00		
		Review of Adjacent Systems for Surplus Allocations	30	10		16		2					58	\$	9 430 00		
		Review of Hydrogeology for New Source Options	20	20		8		20					68	\$	13.060.00		
		Review of Constraints (Climate Change, Contamination)	20	20		16		4	1				61	\$	10,690.00		
		Review of Regulations (Allocation, Highlands, New MCL's)	6	6		2		4					18	\$	3,270.00		
		Long Range Water Supply Assessment (Future Work) - Outline		16		4		4	1				25	\$	4,910.00		
		Alternatives Analysis, including capex, opex, logistics, cost-ben	60	100		40		8	4				212	\$	35,940.00		
		PM / QA				8			4				12	\$	3,160.00	\$	95,520.00
														- ·	,		
2	Meetings												0	\$	-		
		Initial Work Session		8		4		2	1		\$ 100.0	0	15	\$	3,170.00		
		Charter Adoption		8		4			1		\$ 100.0	0	13	\$	2,610.00		
		Intermediate Work Session w/ Stakeholders		8		4		2	1		\$ 100.0	0	15	\$	3,170.00		
		Final Recommendation Presentation		16		8		2	2		\$ 100.0	0	28	\$	5,680.00		
													0	\$	-		
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													0	\$	_	\$	14.630.00
																	,
3	Allowance for Unanticipated & Unexpected Work	*** Allowance Quantity per RFP ***										\$ 5,000.00	0	\$	5,000.00		
													0	\$	-		
													0	\$	-	\$	5,000.00
													0	\$	-		
	TASK TOTAL		164	236	0	130	0	58	19		400	5000	607	\$	115,150.00	\$	115,150.00
			27%	39%	0%	21%	0%	10%		3%							

H 2 M

water

TAB 5

Administrative Documents

A. Failure to submit the following documents at the time of proposal opening may be cause for rejection of the proposal.

XStatement of Ownership DisclosurePKCXAcknowledgement of receipt of any notice(s) or revision(s) or addenda to an advertisement, specifications or bid document(s)PKCXNon-Collusion AffidavitPKCXDisclosure of Investment Activities in IranPKCXAffidavit of Non-Debarred StatusPKCXPrice Proposal TablePKCXPrice Proposal Signature FormPKCXExperience & Qualifications QuestionnairePKCXCorporate AcknowledgementPKCXAcknowledgement of Contractor, if Bidder is a PartnershipPKCXAcknowledgement of Contractor, if Bidder is an IndividualPKCXAcknowledgement of Contractor, LLCPKCXAcknowledgement of Contractor, LLCPKCXAcknowledgement of Contractor, Si Bidder is a CorporationPKCXAcknowledgement of Contractor, LLCPKCXActifirmative Action Compliance NoticePKCXAnditory EEO LanguagePKCXAmericans with Disability Act of 1990PKCXPay to Play Advisory NoticePKCXAnti-Discrimination RequirementsPKC	Owner's Checkmarks		Bidder's Initials
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	Х	Anti-Discrimination Requirements	РКС

Administrative Documents

B. The following documents are to be submitted prior to contract award.

Owner's Checkmarks		Bidder's Initials
Х	New Jersey Business Registration Certificate	РКС
X	Certificate of Insurance	РКС

C. The undersigned hereby acknowledges and has submitted the above required documents.

Business Name:

	H2M Associates, Inc.	
Representative's Name:	Patrick K. Cole, P.E., CME, CPWM	
Representative's Signature:_	SAMY: . Chu	
Date: Mar dh 27, 2025	· · · · · · · · · · · · · · · · · · ·	
Phone: (732) 414-2661		

Acknowledgement of Receipt of Addenda

Pursuant to the NJSA 40A:11-23.1a, the undersigned Vendor hereby acknowledges receipt of the following notices, revisions or addenda to the Legal Notice, Proposal Specifications or Proposal Documents. By indicating date of receipt, Vendor acknowledges the submitted Proposal takes into account the provisions of the notice, revision or addendum. Note that the local unit's record of proper notice to Vendors, per NJSA 40A:11-23(c), shall take precedence and Vendor's failure to acknowledge receipt of addenda shall result in rejection of Proposal.

Title of Addendum/Revision	Received Via (email, fax, etc.)	Date Received

🗹 No Addenda Issued Initials _____

ACKNOWLEDGEMENT OF VENDOR

Name of Vendor:

H2M Associates, Inc.

Vendor's Signature:

Printed Name & Title:

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

Date: March 27. 2025

Price Proposal Signature Form

From: H2M Associates, Inc.

Vendor: The undersigned has reviewed the proposal submitted in response RFP#2025-W02 Professional Services for Water Exploration Engineer issued by the MCMUA.

We affirm that the contents of the proposal (which proposal is incorporated herein by reference) is accurate, factual and complete to the best of our knowledge and belief, and that the proposal is submitted in good faith upon express understanding that any false statements may result in the disqualification of our proposal.

The undersigned hereby agrees to furnish all labor, materials, supplies, supervision, equipment and other means as necessary to perform all the work and furnish all the materials in accordance with the Specifications at the proposed prices within the time constraints of Specifications:

Business Name:	H2M Associates, Inc.	
Representative's Name (print):	Patrick K. Cole, P.E., CME, CPWM	
Representative's Signature:	SAMA COM	
Title:	Vice President	
Complete Address:	4810 Belmar Blvd., Suite 201, Wall Township, NJ 07753	

Affix Seal if Corporation:



Experience & Qualifications Questionnaire

This questionnaire must be filled out and submitted as a part of the Bid. Failure to complete this form or to provide any of the requested information will be grounds for the rejection of the bid. If additional space is required, the respondent shall add additional sheets, which identify the question being answered.

Number of years in business under present name & address:

Under present name since 11/1/1979
4810 Belmar Blvd., Suite 201, Wall Township, NJ 07753
If less than 5 years, list previous names and address:
Within the last 5 years has the business or any officer/partner failed to complete a contract awarded to them: <u>No</u> . If yes, provide the details in on a separate page.
Have any liens and lawsuits been filed against the company in the past 5 years:Yes
If yes, please provide details: Please see attached
List similar services you are now providing for which you have signed contract, but not yet started work: None
List all major subcontractors to be used to complete the service and the area of their responsibility: None

	Pending Litigation								
Year	Parties	Description	Status						
2024	Setauket v. JNS Heating, H2M, et al. NY-Suffolk: 608822/2024 Complaint Dated: Apr 8, 2024 Amount Demanded: \$1,046,000.00	Fire District sued HVAC contractor, its bonding company, equipment manufacturer (Trane) and architect/engineer (H2M) alleging design, manufacturing and installation errors resulting in controls and humidity issues. The parties had previously reached a theoretical agreement on modifications/repairs which final agreement failed due to a dispute between manufacturer and owner as to release versus warranty.	Further investigation, discovery and negotiations in progress. H2M evaluating potential for dispositive motion activity.						
2023	National Union v. Elite Construction, H2M, et al. NY-Suffolk: 615478/2023 Complaint Dated: Jun 21, 2023 Amount Demanded: \$421,157.64	Wet fire sprinkler system froze and burst causing damage to administrative spaces in fire district headquarters. Plaintiff insurance company is subrogee of fire district and sued designer, construction manager and construction contractor alleging that building was improperly designed and constructed. H2M's investigation revealed that building envelope was not properly closed and wall/ceiling area was not properly insulated by construction contractor. There is no design issue. H2M is also protected by a waiver of subrogation	H2M has filed a motion for summary judgment based on contractual waivers of subrogation. Decision is pending.						

	Dismissed Cases							
Year	Parties	Description	Status					
2024	Leto v. H2M and Plainview Water District NY-Nassau: 604399/2024 Complaint Dated: Mar 12, 2024 Amount Demanded: unspecified (pers. Injury)	Plaintiff claimed to have been a worker suffering an unspecified injury in an unspecified manner at an (initially unspecified) water treatment facility construction project. Plaintiff further claimed, inaccurately, that H2M was the facility operator and general contractor. Plaintiff attempted to amend pleadings, but then apparently abandoned the case.	Plaintiff discontinued the case without prejudice and never refiled.					
2024	Cambridge Square v. H2M, et al. NY-Suffolk: 604707/2024 Complaint Dated: Summons only Feb 22, 2024 Amount Demanded: \$700,000.00	Recently elected townhouse condominium board that is infighting with previous board and community manager about a variety of financial issues filed suit against the community's manager, contractor, and architect (H2M) alleging various items on a roofing/related renovation project were incomplete or improperly performed. Board filed only a summons with notice, and no complaint. H2M demanded a complaint detailing the allegations in the suit. Plaintiff's counsel instead acquiesced to discontinue the matter as to H2M.	No complaint was ever filed. Plaintiff discontinued the matter with prejudice.					
2023	Givens v. Travelers. H2M, et al. CT-Stamford: FST-CV233-5029025-S Complaint Dated: July 7, 2023 Amount Demanded: NLT \$2.5MM	Pro se Plaintiff filed rambling documents which basically complained about various insurance entities, including H2M's client Travelers, and H2M, concerning denial of Plaintiff's homeowner's insurance claims for damage alleged to have been caused by various severe weather occurrences.	H2M's motions for non-suit and summary judgment were granted.					
2023	Canda Realty v. Nationwide, H2M, et al. NJ-Bergen: HUD-L1294-22 Complaint Dated: Apr 4, 2023 Amount Demanded: unspecified	Combination side-wall/retaining-wall of Plaintiff's partially below-grade automobile service center collapsed (no injuries) following an historical rain event. Nationwide declined coverage based on weather/water exclusion. P sued Nationwide, and also the Town, County, State, water utility operator, construction company and H2M, alleging that a water main replacement project in the adjacent street months earlier was improperly executed and eventually resulted in the collapse. H2M had no role in design or construction. Its role was only to observe and document the contractor's progress.	The court granted a motion to dismiss the claims as to H2M.					
2022	Barber v. Phillip Ross Industries & H2M NY-Nassau: 607604/2022 Complaint Dated: Jun 13, 2022	Plaintiff municipal employee tumbled off a stack of concrete blocks he was using to climb into a municipal building under construction and was injured. P sued the constructor and H2M, alleging failure to maintain a safe work site. H2M had design and construction	After discovery and depositions, all parties stipulated to dismissal					

H2M architects + engineers (H2M) Litigation Report (as of 02/15/2025)

	Amount Demanded: unspecified (pers. Injury)	administration duties only, and its contract with municipal client reinforced that H2M was not responsible for means and methods of construction nor site safety. Constructor's contract with municipal client called for indemnity and additional insured status for H2M.	of the case against H2M, with prejudice.
2021	Stasi Constr. v. Riverhead Fire Dept. & H2M	Plaintiff construction company contracted for and partially performed certain concrete,	H2M's motion demanding
	NY-Nassau: 615690/2021 transferred to	asphalt and landscaping work for H2M's client fire department in 2018. Client was	dismissal was granted. Case
	NY-Suffolk: 000338/2022	required to self-perform and hire others to correct Plaintiff's poor work. Client withheld	dismissed as to H2M. Stasi
	Complaint Dated: Dec 28, 2021	payment as compensation. Years later, Plaintiff sued client for payment, and alleges that	abandoned its appeal of the
	Amount Demanded: \$140,000+	H2M improperly advised client that Plaintiff's construction work was unacceptable.	dismissal.
2021	Ramirez v. Great Neck UFSD v. H2M, et al.	Plaintiff employee of construction contractor fell off scaffolding while repairing façade of	H2M sought and obtained
	NY-Nassau: 609941/2019	school building; sued school district, among others. School district filed third-party actions	District's withdrawal of the third-
	Complaint Dated: Jun 11, 2021	against all company names found in their files, including H2M; such action was erroneous,	party complaint.
	Amount Demanded: unspecified (pers. Injury)	as H2M played no role in this project; an H2M COI was misfiled in the district's records.	

Settled Cases				
2021	Desiderio v. Smithtown, H2M, et al.	Plaintiff motorcycle rider claims to have skidded on gravel and fallen near site of sewer	Case settled with no finding of	
	NY-Suffolk: 614816/2021	construction in roadway; sued Town, multiple construction companies and engineering fault against H2M.		
	Complaint Dated: Aug 2, 2021 firms, including H2M. H2M had design and construction observation obligations, but did			
	Amount Demanded: unspecified (pers. Injury)	not supervise contractor and was not responsible for MPT nor site safety.		

Experience & Qualifications Questionnaire

Please provide at least 3 references below:

Name:	Sean Andres, Parsippany-Troy Hills Water Dept.	Phone: (973) 263-7108
Address	8: 3 Pump House Road, Parsippany, NJ 07054	
Equipm	Development of a new replatent/Service Provided: Water Allocation Permit, an Minor Diversion	acement well requirement a major modification of the dincluding an alternatives analyses and Green Acres
Contrac	ct Amount: \$151,000	
Name:	Thomas Matich, East Orange Water Commission	Phone: (973) 266-8869 ext. 2142
Address	8: 99 S. Grove Street, East Orange, NJ 07018	
Equipm	Design and coordination of regarding well water quality	a new replacement well. Ongoing services monitoring.
Contrac	ct Amount: \$70,000 (hydrogeological portion only)	
Name:	Stephen T. Specht, P.E., Brick Township MUA	Phone: (732) 458-7000, ext 4247
Address	8: 1551 Highway 88 West, Brick, NJ 08724	
Equipm	ent/Service Provided: 20-Year Water Supply Mas	ter Plan
Contrac	ct Amount: \$250,000	

Name:	Phone:	
Address:		
Equipment/Service Provided:		
Contract Amount:		

Mandatory Equal Employment Opportunity 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. I7:27-5.2.

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

Mandatory Equal Employment Opportunity Language

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): Patrick K. Cole, P.E., CME, CPWM, Vice President

Representative's Signature:

ZAMY. Chin

Date: March 27, 2025

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.JA.C. 17:27.

The successful respondent shall submit to the public agency, after notification of award but prior to execution of the contract, 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 successful vendor(s) 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): Patrick K. Cole, P.E., CME, CPWM, Vice President

ZAMY. CIM **Representative's Signature:**

Date: March 27, 2025

Phone: (732) 414-2661

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

ELIZABETH MAHER MUOIO State Treasurer

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 frill 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.

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): Patrick K. Cole, P.E., CME, CPWM, Vice President

Representative's Title: Representative's Signature:

(ANU

Phone: (732) 414-2661

Date: March 27, 2025

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):	Patrick K. Cole, P.E., CME, CPWM
Representative's Title:	Vice President
Representative's Signature:	SAMY. CMM
Phone: (732) 414-2661	Date: March 27, 2025

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 with the bid is cause for automatic rejection of the bid or proposal.

<u>Name</u>	e of Organization: H2M Associates, In	IC.			
<u>Organ</u>	nization Address: 4810 Belmar Blvd.,	Suite 201, W	all Township, NJ 07753		
<u>Part</u>	I Check the box that represents th	ne type of k	ousiness organization:		
	Sole Proprietorship (skip Parts II ar	nd III, execu	te certification in Part IV)		
	Non-Profit Corporation (skip Parts I	I and III, ex	ecute certification in Part IV)		
\checkmark	For-Profit Corporation (any type)	Limited Li	ability Company (LLC)		
	Partnership	tnership	Limited Liability Partnership (LLP)		
	Other (be specific):				
<u>Part</u>	<u>II</u>				
\checkmark] 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				
	0 percent or more of its stock, of any class, ns a 10 percent or greater interest therein, ny owns a 10 percent or greater interest Γ IV)				
(Please attach additional sheets if more space is needed):					
Name of Individual or Business Entity Address					
H2M - Lands Engir	Associates, Inc. is a wholly owned subsidi scape Architecture, D.P.C. No stockholder neers, Land Surveying and Landscape Arc	ary of H2M A rs own 10% o hitecture, D.F	rchitects, Engineers, Geology, Land Surveying and r more of the Stock of any class of H2M Architects, P.C.		

Statement of Ownership Disclosure

$\underline{Part~III}$ 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):	Patrick K. Cole, P.E., CME, CPWM	Title:	Vice President
Signature:	XAMX. CHM	Date:	March 27, 2025

Corporate Acknowledgement

STATE OF New York)COUNTY OF Westchester)) SS:
On this <u>27th</u> day of <u>March</u>	in the year 2025 , before me personally came
and appearedPatrick K. Cole, P.E., CME	, CPWM
to me known, who, being by me duly swo 609 Rankin Road, Brielle, NJ	rn, did depose and say, that he resides at
That he is the <u>Patrick K. Cole, P.E., CN</u> (principle executive officer or duly	inte, CPWM authorized representative)
of H2M Associates, Inc	,
the Corporation described in and which ex Corporation; that one of the impressions a was so affixed by order of the Board of D like order.	Accuted the foregoing instrument; that he knows the seal of said ffixed to said instrument in an impression of such seal, that it irectors of said Corporation, and he signed his name thereto by
	\wedge
회 철 아님,	$\Omega I \rightarrow I I$
(Seal)	Man / peoleo
V ⁶ 22 - 1	Notary Public
	Westchesty County, State NY
MARIE RUOCCO Notary Public, State of New York No. 01RU6080438 Gualified IN Westchester County Commission Sectomber 16, 2022	3/27/25

30

Acknowledgement of Contractor, if a Partnership or LLP

STATE OF)		
COUNTY OF) 35.		
On this	day of	in the year 20	, before me personally came
and appeared	N	I / A	
to me known, who,	being by me duly sy or	id depose and say, that h	e is the:
			of the
(general partner or	duly authorized represen	tative)	

firm of:

described in and which executed the foregoing instrument by and with the consent of all partners and he acknowledged to me that he executed the same as and for the act and deed of said firm.

(Seal)

Notary Public

County, State

Acknowledgement of Contractor, if an Individual

STATE OF)				
COUNTY OF) 55:				
On this came and appeared	_day of	in	the year 20	, before me personally		
to me known, who, being by me duly swor and expose any easy, that he is the person described in and who executed the foregoing instrument and acknowledged to ne that he executed the same.						
(Seal)		Notary	Public			
		Notary		County, State		

Acknowledgement of Contractor, if a Limited Liability Company

STATE OF)				
COUNTY OF))	SS:			
On this	day of		_ in the year 20	, before me per	sonally came
and appeared					
to me known, who, bein	ng by me duly swor	, e d cepç	e ard s y, that he	is the:	of the
(Managing Member of	LLC or duly authoriz	zed represe	entative)		

firm of:

described in and which executed the foregoing instrument by and with the consent of all partners and he acknowledged to me that he executed the same as and for the act and deed of said firm.

(Seal)

Notary Public

County, State
Certified Copy of Resolution of Board of Directors

H2M Associates, Inc.

(Name of Corporation)

RESOLVED that	Patrick K. Cole, P.E., CME, CPWM, Vice Pro	esident
	(Person Authorized to Sign)	(Title)

of <u>H2M Associates, Inc.</u> be authorized to sign and submit the Proposal of this (Name of Corporation)

Corporation for the following project:

Professional Services for Hydrogeologists to Direct and Oversee Drilling, Testing and Sampling Test Wells in the Alamatong Well Field Proximate to Existing Wells A-1 and A-2

The foregoing is a true and correct copy of the Resolution adopted by

H2M Associates, Inc.	at a meeting of its Board of Directors

held on the 10th ______ day of January , 2025 _____.

By: Joseph M.

Title

Executive Vice President, COO, Secretary

(SEAL)

This form must be completed if the Proposer is a Corporation.



MINUTES OF 2025 ANNUAL BOARD OF DIRECTORS MEETING OF H2M ASSOCIATES, INC.

The 2025 Annual Meeting of the Board was held at 538 Broad Hollow Road, Melville, New York, on the 10th day of January at 3:40 PM. The meeting was held both virtually and in person.

The following were present:

Richard W. Humann Joseph M. Mottola Charles A. Martello

being a quorum of the Directors of the Corporation.

The Board previously approved the minutes of the 2024 Annual Meeting.

On a motion duly made, seconded and unanimously approved (3-0), the following were nominated and a vote having been taken, were elected Officers and Associates of the Corporation to serve for one year and until their successors are elected and qualified:

CHAIRMAN, CEO & PRESIDENT:

RICHARD W. HUMANN

COO & EXECUTIVE VICE PRESIDENT & SECRETARY:

JOSEPH M. MOTTOLA

ELIZABETH C. UZZO

CHARLES A. MARTELLO

SAVERIO J. BELFIORE

PHILIP J. SCHADE

CHRO & EXECUTIVE VICE PRESIDENT:

CHIEF MARKET DIRECTOR & EXECUTIVE VICE PRESIDENT

PRINCIPAL OFFICE DIRECTOR & EXECUTIVE VICE PRESIDENT

SENIOR VICE PRESIDENTS:

SR. VP & ASSISTANT SECRECTARY:

JOHN R. COLLINS JEFFREY L. CZAJKA MICHAEL N. GENTILS ERNEST V. IANNUCCI MICHAEL W. KEFFER PAUL R. LAGERAAEN **RONALD B. LANNER** JOSEPH MANZELLA JAMES L. NERI DAVID J. PACHECO GUY Y. PAGE **KEVIN M. PAUL JAMIE E. PIZZARDI** JAMES J. ROBERTS WILLIAM G. ROSPARS WILLIAM H. ROCKENSIES CHRISTOPHER A. WEISS

SR. VP, CFO & TREASURER

SR. VP & GENERAL COUNSEL:

MINUTES OF 2025 ANNUAL BOARD OF DIRECTORS MEETING OF H2M ASSOCIATES, INC. PAGE 2

VICE PRESIDENTS:

ALISON K. AURIEMMO ROBERT F. BEE NICHOLAS F. BONO PATRICK K. COLE ALAN P. HILLA ALEXANDER E. HOCHHAUSL ROBERT E. IKES III MICHAEL W. LANTIER **GREGORY J. LEVASSEUR ERIC W. MAISCH** DEBRA L. MATTINA **KEVIN M. MEDLER** MATTHEW R. MOHLIN JAMES J. MORAN **MICHELE A. PINCUS** JAMES T. POWERS SHARON NORTON REMMER **R. JOEL RICHARDSON JASON S. SMITH** KEVIN M. TAYLOR JOSEPH J. TODARO **RICHARD W. WIEDERSUM**

GREGORY M. CELLAMARE ANNE M. DAVIS WILLIAM F. DELNERO **ARTHUR M. ESCHETE** KENNETH R. GEHRINGER PASQUALE IANNONE, SR. KENNETH KELTAI ANTHONY W. KIM SCOTT D. LEHN **ROBERT J. LUCAS** TIMOTHY J. McGUIRE ALEC J. MITTIGA JOHN CHRIS MORRIS JONATHAN R. MURATORE **KATRINA N. PACHECO** ADAM C. POST **DANIEL K. RITCHIE CHARLES J. STARKE** PATRICK O. STONE MICHAEL W. WEBER

PHILIP BIANCO JEROLD M. BLUSTEIN SEAN P. CALLAHAN JOSEPH C. CISERANO JOSEPH F. CLINE STEPHANIE L. DeCOTIIS JOSEPH E. FLYNN

ASSISTANT VICE PRESIDENTS

SENIOR ASSOCIATES:

MINUTES OF 2025 ANNUAL BOARD OF DIRECTORS MEETING OF H2M ASSOCIATES, INC. PAGE 3

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KELLY E. GREENFIELD ANDREW M. MANFREDI SUJATA PAL RICHARD T. PALLADINO NICOLE C. PESCE STEVEN SOUSSOU KATHERINE M. STONE LILY WU

After a discussion of other business items, resolutions were presented by the Secretary and upon a motion duly made, seconded by Charles A. Martello, and carried (3-0); and it was:

RESOLVED, that H2M Associates, Inc. proceed to carry on the business for which it was incorporated; and,

MINUTES OF 2025 ANNUAL BOARD OF DIRECTORS MEETING OF H2M ASSOCIATES, INC. PAGE 4

RESOLVED, that the next Annual Meeting of the Directors shall be held on January 14, 2026, at 3:40 PM; and,

FURTHER RESOLVED, that the signing of these Minutes shall constitute full ratification thereof and waiver of notice of the meeting by the signatories.

There being no further business, the meeting was adjourned.

Dated the 15th day of January 2025.

MOTTOLA, SECRETARY DIRECTOR

RICHARD W. HUMANN, CHAIRMAN CHARLES A. MARTELLO, DIRECTOR

New Jersey Business Registration Certification

Pursuant to <u>N.J.S.A.</u> 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. 54:32Bl 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 <u>N.J.S.A.</u> 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: Trade Name:	H2M ASSOCIATES, INC.
Address: Certificate Number:	119 CHERRY HILL ROAD, SUITE 110 PARSIPPANY, NJ 07054-1114 0068842
Effective Date: Date of Issuance:	November 01, 1979 January 21, 2025
For Office Use Only: 20250121172545053	

Return

THIS DOCUMENT IS PRINTED ON WATERMARKED PAPER, WITH A MULTI-COLORED BACKGROUND AND MULTIPLE SECURITY FEATURES. PLEASE VERIFY AUTHENTICITY

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#

un Man Signature of Licensee/Registrant/Certificate Holder

Sais

THIS DOCUMENT IS PAINTED ON WATERMARKED PAPER, WITH A MULTI-COLORED BACKGROUND AND MULTIPLE SECURITY FEATURES. PLEASE VEHIFY AUTHENTICIT State Of New Jersey New Jersey Office of the Attorney General **Division of Consumer Affairs** THIS IS TO CERTIFY THAT THE Board of Architects New Jersey Office of the Attorney General Division of Consumer Atfairs THIS IS TO CERTIFY THAT THE Board of Architects HAS LICENSED H2M ASSOCIATES INC CARMELA R SCHOMMER 119 Cherry Hill Road - Ste 110 Parsippany NJ 07054 05/30/2023 TO 05/31/2025 ES INC **MALID** FOR PRACTICE IN NEW JERSEY AS A(N): Certificate of Authorization 5 LICEL Cent r T --1 - PLEASE DETACH HERE ···· IF YOUR LICENSE/REGISTRAT (DN/ CERTIFICATE ID CARD IS LOSY PLEASE NOTIFY: Board of Architeuts 21MH00010300 05/30/2023 TO 05/31/2025 LICENSE/REGISTRATION/CERTIFICATION # VALID P.O. Box 45001 Newark, NJ 07101 ans ACTING DIRECTOR alure of Licensee/Registrant/Certilicate Holder -PLEASE DETACH HERE--

Pay to Play Advisory

PAY TO PLAY ADVISORY Disclosure Requirement P.L. 2005, Chapter 271, Section 3 Reporting (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 PKC

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/Offeror:	⁻ H2M Associates, Inc.
đ	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/Offeror:
Description of Activities:	
Duration of Engagement:	Anticipated Cessation Date:
Bidder/Offeror Contact Name:	Contact Phone Number:

<u>Certification:</u> 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): Patrick K. Cole, P.E., CME, CPWM

MM F. Clim Signature:

Title:

Vice President

Date: March 27, 2025

Non-Collusion Affidavit

STATE OF NEW YORK 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 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: Patrick K. Cole, P.E., CME, CPWM day of March , 20 25 2744 Subscribed and sworn to before me this Print Name of Affiant: Marie Rubeco Notary Public of New York My commission expires 9/16/26 MARIE RUODOO Notary Public, State of New York

Notary Public, State of New York No. 01RU6080439 Qualified in Weatchestar County Commission Expires September 10, 202

Affidavit of Non-Debarred Status

STATE OF NEW YORK)	
) 55: COUNTY OF West chester)	
I,Patrick K. Cole. P.E CME. CPWM	of the City/Town of
Brielle	_, in the County of <u>Monmouth</u>
and the State of <u>New Jersey</u>	_, of full age, being duly sworn according to law on my
oath depose and say that:	
I am Patrick K. Cole, P.E., CME, CP	VM, aVice President
(Name)	(Title, Position, etc.)
of <u>H2M Associates. Inc.</u> (Name of Firm, Company or Corp.	, the Proposer

making the Proposal for the Morris County Municipal Utilities Authority and that I executed the said Proposal with full authority so to do; that said Proposer at the time of making this Proposal is not included on the State of New Jersey, State Treasurer's List of Debarred, Suspended and Disqualified Proposers; and all statements contained in said Proposal and in this affidavit are true and correct and made with the full knowledge that the Morris County Municipal Utilities Authority relies upon the truth of the statements contained in said Proposal and in the Statements contained in this affidavit in awarding Contract for said project.

The undersigned further warrants that should the name of the firm, company or corporation making this Proposal appear on the State Treasurer's List of Debarred, Suspended and Disqualified Proposers at anytime prior to, and during the life of the Contract, including the Guarantee Period, that the Morris County Municipal Utilities Authority shall be immediately so notified by the signatory to this Eligibility Affidavit.

The undersigned understands that the firm, company or corporation making the Proposal as a CONTRACTOR is subject to debarment, suspension and/or disqualification in contracting with the State of New Jersey and the Department of Environmental Protection if the CONTRACTOR, pursuant to NJAC 7:1-5.2, commits any of the acts listed therein, and as determined according to applicable law and regulation.

(Signature of Proposer)

(Seal if Corporation)



Patrick K. Cole, P.E., CME, CPWM, Vice President (Printed or Typed Name & Title of

<u>Proposer) (Address of Proposer)</u> 4810 Belmar Blvd., Suite 201, Wall Township, NJ 07753

Form W-9
(Rev. March 2024)
Department of the Treasury
Internal Revenue Service

H2M Associates, Inc

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.

	•	•								
1	Name of entit	y/individual.	An entry	is required.	(For a sole proprie	etor or disregar	ded entity, ente	er the owner's name on lin	e 1, and enter the business/disregar	ded
	entity's name	on line 2.)								

	2 1	Business name/disregarded entity name, if different from above.		
n page 3.	За ((Check the appropriate box for federal tax classification of the entity/individual whose name is entered only one of the following seven boxes.	on line 1. Check	4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):
e. ns o		LLC. Enter the tax classification (C = C corporation, S = S corporation, P = Partnership)	•3 •3	Exempt payee code (if any)
rint or type Instruction	[Note: Check the "LLC" box above and, in the entry space, enter the appropriate code (C, S, or P) classification of the LLC, unless it is a disregarded entity. A disregarded entity should instead check box for the tax classification of its owner. Other (see instructions)	for the tax k the appropriate	Exemption from Foreign Account Tax Compliance Act (FATCA) reporting code (if any)
P Specific	3bl a t	f on line 3a you checked "Partnership" or "Trust/estate," or checked "LLC" and entered "P" as its tax and you are providing this form to a partnership, trust, or estate in which you have an ownership i this box if you have any foreign partners, owners, or beneficiaries. See instructions	(Applies to accounts maintained outside the United States.)	
See	5 /	Address (number, street, and apt. or suite no.). See instructions.	Requester's name a	and address (optional)
	538	Broad Hollow Road, 4th Floor East		
	6 (City, state, and ZIP code		
	Mel	ville, NY 11747		
	7 I	List account number(s) here (optional)		

Part I Taxpayer Identification Number (TIN)

Number To Give the Requester for guidelines on whose number to enter.

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

So	cial s	secu	rity r	numt	ber				
			-			-			
or									
or Em	ploy	er id	entif	licati	ion n	umb	er]

Part II Certification

Under penalties of perjury, I certify that:

1. 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

- 2. 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
- 3. I am a U.S. citizen or other U.S. person (defined below); and
- 4. 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	X	AM	L-CH	h

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. Date March 27, 2025

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

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

