



proposal for

2020 Lead Testing in School
Drinking Water | RFP No.423A



architects + engineers



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Drinking Water | RFP No.
423A



04.29.2020

Contact

Jay T. Pisco, P.E.
Vice President | Office Director

H2M architects + engineers
2700 Westchester Avenue,
Suite 415
Purchase, NY 10577



914.358.5623 ext.2058



914.358.5624



jpisco@h2m.com

Table of Contents

→ TAB 1	▶ Transmittal Letter
→ TAB 2	▶ Statement of Qualifications and Experience
→ TAB 3	▶ References
→ TAB 4	▶ Project Approach
→ TAB 5	▶ Fee Proposal (Separately Sealed)
→ TAB 6	▶ Required Forms & Documents



architects + engineers

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April 29, 2020

Debra Censi
City of Yonkers / Yonkers Public Schools
Purchasing Department
One Larkin Center – 3rd floor
Yonkers, NY 10701

Re: Proposal for 2020 Lead Testing in School Drinking Water | RFP No. 423A

Dear Ms. Censi:

H2M architects + engineers (H2M) is pleased to provide our proposal as a qualified vendor to be selected as the consultant to manage all activities associated with the Lead Testing in Drinking Water Program for the City of Yonkers public schools. We will provide all services to test potable water outlets for lead contamination and to develop and implement a lead remediation plan, where applicable. H2M is a multi-disciplined environmental, engineering, architecture and surveying firm that has been servicing schools, municipalities and public water suppliers for over 85 years, us fully capable in accomplishing the goals of this project.

H2M has experience testing of potable outlets within numerous school buildings to comply with the 2016 New York State Department of Health (NYSDOH) regulations entitled "Lead Testing in School Drinking Water" (10 NYCRR Subpart 64-7, effective September 6, 2016). We maintain effective relationships with NYSDOH personnel ensuring that client's needs and desired outcomes are both heard and granted, when appropriate. Our vast experience with potable water testing and remediation plans throughout New York will deliver the City a quality project, that meets their budget and expectations.

H2M understands the importance of mobilizing for assignments quickly and having the resources available to execute projects on schedule and within budget. I will supervise our expert team and will make sure all the City's needs are being fulfilled in a timely, cost-efficient, and high-quality manner. Our project will be led by Project Manager Martha Mihaltses, who offers more than 13 years of experience leading similar projects, specifically in Westchester County. She will be supported by our environmental and water engineering staff to ensure this project meets the needs of the City and it's schools.

In summary, H2M has the requisite in-house staff, as well as extensive experience on similar projects throughout New York. H2M is currently working on several major projects for various municipalities throughout the New York metropolitan area. As we have staff resources of more than 470 technical and support professionals, we are confident in our ability to provide the most qualified staff for any project the City requires our support on. We will strive to provide a high level of service to the City in a well-coordinated and timely manner. This proposal constitutes a valid, binding and continuing offer at the prices set forth in the proposal for a period of one hundred twenty (120) calendar days from the deadline for acceptance of proposals as set forth herein. Please feel free to contact me at (631) 756-8000 ext.2058 or via email at jpisco@h2m.com should you have any questions regarding our submission or require additional information. Thank you for your consideration.

Very truly yours,
H2M architects + engineers

Jay T. Pisco, P.E.
Vice President | Office Director



Here at H2M, we value people.



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

Practical Approach. Creative Results.

H2M is a multi-disciplined professional consulting and design firm, 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 schools to firehouses, water treatment facilities 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 over 470 engineers, scientists, architects, surveyors, planners, landscape architects, and technical support specialists, we offer our clients the benefit of a full "under one roof" consulting network.

 57
Registered Architects

 81
Professional Engineers

 36
LEED Accredited Professionals

 02
Registered Landscape Architects

 06
Professional Planners

 14
LEED Green Associates

 07
Professional Geologists

 02
Professional Land Surveyors

 05
Licensed Site Remediation Professionals

Operating Philosophy

The operating philosophy at H2M is based on the following core values:

Respect

We respect each other's ideas and contributions and are committed to open, honest communication.

Dedication

We are responsive to our clients' needs and go above and beyond to get the job done.

Integrity

We are honest and ethical in our business practices and build trust with our clients and staff.

Teamwork

We cooperate, collaborate and work together as part of a team.

Community

We are committed to the health of our local communities and our legacy.

Creativity

We believe in the importance of innovation and seek new, creative, and sustainable project solutions.

Practicality

We are dedicated to providing efficient, cost-effective solutions to our clients' problems.

Opportunity

Our success begins with our people. We value organic growth, empowering our employees, and fostering their development.



H2M Services

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
- 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)

Water Engineering

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

Architecture and Structural Engineering

- Architectural design
- Comprehensive grant programs
- New feasibility design
- LEED design processes
- Renovation of existing facilities
- 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
- Structural investigations/design
- Zoning ordinance review
- Educational facilities design
- Assisted living facilities design

Land Surveying

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

Landscape Architecture

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

MEP Services

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

Planning

- Comprehensive Master Planning
- Community Visioning
- Zoning Ordinances and Analysis
- Redevelopment Studies and Plans
- Geographic Information Systems (GIS)
- Urban Design
- Design Guidelines
- Renderings
- Feasibility Studies and Conceptual Plans
- Downtown Revitalization
- Expert Private Testimony
- Municipal Board Representation

Wastewater Engineering

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

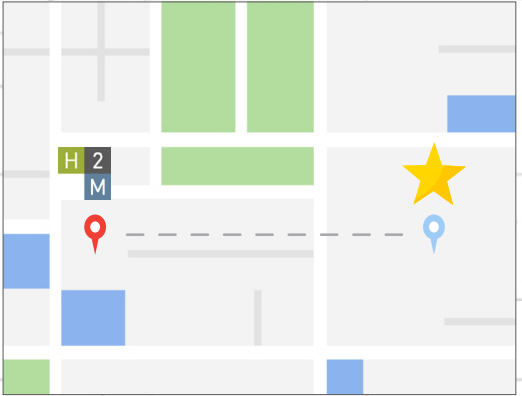
Civil/Site Engineering

- 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
- Bulkheads/marina design
- Highway planning studies
- Intersection design and improvements
- Visual impact analyses
- Resident engineering inspections
- Geographic Information Systems (GIS)
- Green infrastructure design



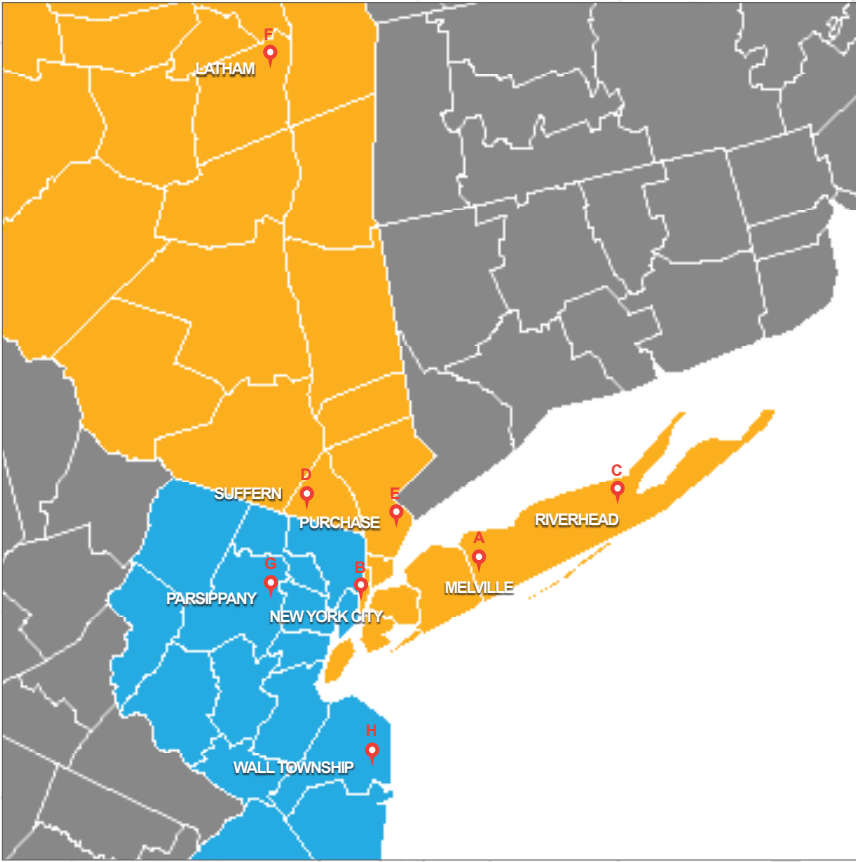
Distance from our Westchester office to the City of Yonkers:

15 miles



Service Area Map

H2M serves the municipalities, public agencies, private utilities, and industries of the New York/New Jersey Metro Region, with eight office locations.



Office Locations

- A** 538 Broad Hollow Road, 4th Floor East
Melville, NY 11747
- B** 132 West 31st St, Suite 604,
New York, NY 10001
- C** 737 Roanoke Avenue,
Riverhead, NY 11701
- D** 2 Executive Boulevard, Suite 401,
Suffern, NY 10901
- E** 2700 Westchester Avenue, Suite 415,
Purchase, NY 10577
- F** 3 Lear Jet Lane, Suite 205,
Latham, NY 12110
- G** 119 Cherry Hill Road, Suite 110,
Parsippany, NJ 07054
- H** 4810 Belmar Boulevard
Wall Township, NJ 07753

“H2M” refers to H2M Architects, Engineers, Land Surveying and Landscape Architecture, D.P.C. and/or its subsidiary H2M Associates, Inc., and/or its affiliate H2M Architects & Engineers, Inc. and Pacheco Ross Architects, a division of H2M architects + engineers, as appropriate to the context. Pacheco Ross Architects was acquired by H2M in 2016, and specializes in the design of emergency response facilities. 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, 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, 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 professional engineering and architecture services. It is also appropriately structured to maintain certificates of authority to provide professional engineering and architecture services in Connecticut and Pennsylvania.



H2M Health and Safety Program Overview

H2M is committed to protecting the health and safety of our employees. The goal of our Health, Safety and Environmental (HSE) program is to develop a corporate safety mindset to ensure the safety of site personnel, the general public, and the environment on all projects on a day to day basis. Health and Safety is an H2M fundamental value and provides a framework for our business operations.

Our employees are our most important assets and their safety at the worksite is our greatest responsibility. H2M management provides all mechanical and physical facilities required for the personal safety and health of each of its employees. Inherent to H2M's HSE program is our employee's proper attitude toward injury and illness prevention which is driven from the firm's corporate leadership. It also requires cooperation in all safety and health matters, not only between corporate management, our safety team members, supervisors and employees, but also between employees and their co-workers.

H2M's HSE program is dynamic and continually evolving to meet or exceed requirements detailed in the Code of Federal Regulations (CFR) Parts 1910 and 1926. The program includes the following components and/or highlights:

- **Participation in a third-party HSE contractor and supplier management service (ISNetworld)**
- **Formal safety committee and designated safety representatives**
- **H2M general safety training required for all personnel that conduct field work or construction site visits**
- **Mandatory OSHA 40-hour HAZWOPER and 10-hour construction safety training for H2M environmental staff**
- **Corporate Health and Safety Plan (HASP)**
- **Corporate employee manual with HSE framework and commitment**
- **Corporate HASP subcommittee to periodically review and update HASP**
- **Standardized HSE incident reporting forms**
- **Corporate ladder safety plan**
- **Corporate bloodborne pathogen plan**
- **Corporate respiratory protection plan**
- **Medical surveillance program**
- **Commitment to ensuring all personnel have necessary PPE, including hardhats, safety vests, gloves, and safety glasses at no cost to the employee**
- **Reimbursement program for other safety equipment, as needed, including ASTM/ANSI-rated safety shoes/boots**
- **Implementation of evacuation plans for all H2M offices**
- **Safety orientation for all new employees and interns**
- **Installation of AEDs in all offices**
- **CPR/AED/first aid training to all employees on a voluntary basis**

Water Engineering Experience

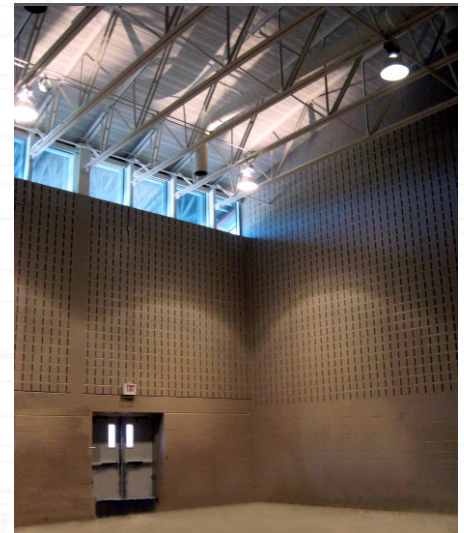
H2M’s expertise in water resource development and water supply engineering dates from the founding of the firm in 1933. H2M is currently the engineer-of-record for more than 25 public water suppliers, serving a total population of more than one million people. The firm’s long-standing clients include municipalities, counties, independent water districts, and private water companies. H2M understands the needs of these clients and our staff communicates effectively with people at every level in this field. We have been responsible for the design of complete water systems including sources of supply, treatment facilities, pumping stations, storage facilities, and distribution systems, as well as monitoring and maintaining water quality.

Some of our areas of expertise in water supply and distribution include 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; operation and maintenance programs; aquifer mapping, determination, computation and management plans. Our staff includes water resource engineers, electrical and structural engineers, NACE-certified, SPEC licensed and API certified tank inspectors, construction inspectors, water supply and technical specialists.

Education and School District Experience

H2M sets the stage for learning. We believe that where people learn is nearly as important as what people learn; that the environment has a tremendous impact on people’s sense of curiosity, comfort, and motivation. H2M designs bright and engaging spaces that foster collaboration, encourage discovery, and inspire learners of all ages. With decades of experience working with school districts, universities, and libraries, we have developed the expertise necessary to address the concerns and issues facing administrators in relation to their buildings, properties, and growing communities. H2M’s educational clients include more than 25 local school districts in the New York metropolitan area, including several schools near Yonkers, NY.

Our projects vary from water system improvements, new gymnasiums, classroom additions, new roofs, building envelope improvements, new windows, elevator replacements, heating and air conditioning upgrades and replacements, sports fields (natural and synthetic), library and science classroom modernizations, environmental issues (tanks, mold, asbestos, and lead), and many others. Whatever the challenge, H2M has a cost-efficient, easily maintainable, and environmentally conscious solution.



Qualifications and Experience of Personnel

The Environmental Site Investigation and Remediation (SIR) and Industrial Hygiene (IH) team proposed for this opportunity are accustomed to lead in water testing. As per Title 10 of the New York Codes, Rules and Regulations (NYCRR), Subpart 67-4, in 2016, all schools and Boards of Cooperative Educational Services (BOCES) were required to complete the lead testing of all water outlets used for drinking and cooking. On behalf of our clients, we expeditiously responded to the New York State Department of Health (NYSDOH) mandate. Our Project Manager designed a sampling program consistent with the United States Environmental Protection Agency (USEPA) 3T's guidance documents (Training, Testing, and Taking Action). The guidance documents have changed slightly since their original publication, however, they remain a valuable resource for the 2020 sampling initiative..

With some creative thinking, on behalf of each school district, H2M developed a sampling program to be minimally intrusive and ensure no disruptions to facility operations while being as cost effective as possible. After meeting the minimum stagnation period requirements, in the early morning hours, teams of our environmental technicians and scientists arrive at the schools. The staff systematically sampled potable outlets and fixtures for the first draw samples and then purged the fixtures for 30 seconds. After purging, flush samples (second draw samples) were collected. All samples were placed into appropriate laboratory bottles, stored on ice and delivered to a certified Environmental Laboratory Approved Program (ELAP) laboratory. Samples were analyzed for lead using USEPA Method 200.8. Staff would daily cleanup their work areas prior to leaving school property. Day in and day out, samples were collected in the early morning hours with H2M staff having left the school before even the first student arrived for the day. Keeping the client's objectives and financial commitment in mind, H2M submitted all first draw samples for analysis and only analyzed flush samples in the event lead was detected at a concentration exceeding the NYSDOH Action Level of 15 parts per billion (15 micrograms per liter) within the first draw sample. Assuming these methods are applied to the City of Yonkers sampling programs, and that only 10% of the samples will exceed the action level, **H2M will potentially save Yonkers \$40,500 in unnecessary analytical costs.**

Since NYS instituted the 2016 sampling requirements, H2M has conducted the sampling of thousands of outlets within schools. Dozens of schools have received analytical data demonstrating that they are meeting the Federal and NYSDOH action levels for lead in water. Typically, when lead was detected at a concentration exceeding the Action Level, Districts replaced lead containing outlets with lead-free certified fixtures. We routinely provided oversight and confirmatory post-installation sampling and analysis on behalf of the Districts. H2M developed plans for post-installation flushing of certified lead-free fixtures prior to outlets being placed back into use.

► Project Leadership

Principal-In-Charge: Jay Pisco, P.E., is Project Principal and Client Advisor on several projects for municipal and private clients throughout Westchester and Putnam Counties. Work involves assisting clients with procurement and operational matters, structuring project and contract options, and developing strategies for project approach and contracts. Mr. Pisco is the Office Director and responsible for H2M's Westchester office.

Project Manager: Martha Mihaltses is a Senior Project Scientist with 13+ years of experience in environmental sampling, regulatory compliance, and spill



investigation and remediation. As a senior member within the environmental discipline with years of experience in managing environmental and emergency response services, she is well positioned to execute services on behalf of the City of Yonkers. As the Project Manager, she will have the full support and buy-in of all contributing teams and disciplines during environmental sampling and ancillary services.

► Technical Advisors

James J. Roberts, P.E., as the former Deputy Commissioner of the Bureau of Water and Sewer Operations for New York City Department of Environmental Protection (NYCDEP), Mr. Roberts brings unique experience to this contract. He oversaw a water and sewer system of three tunnels carrying about one billion gallons a day from upstate reservoirs, 70 shafts, 250,000 valves, 148,000 catch basins, 109,000 hydrants, 500,000 manholes, 1,300 employees and nearly 15,000 miles of water and sewer mains. With 6,800 miles of water distribution mains under his jurisdiction, he is well versed in the physical and political challenges posted by lead service lines and downgradient fixtures and appurtenances.

James L. Neri, P.E., is Senior Vice President and the Director of the Water Resources Discipline. As an engineer with over 20 years of experience in managing municipal water supply projects, and mitigating and remediating various contaminants, he will be responsible for the overall technical direction of water engineering services.

Paul J. Ponturo, P.E., is a Senior Water Resources Engineer and consults on a number of regulatory and compliance issues relating to public water supplies, emerging contaminants, lead in water, and monitoring program design. He is also currently involved in H2M's efforts in expanding education and outreach opportunities to H2M's clients and trade organizations regarding the challenges in water supply management and various contaminants.

Kenneth S. Claus is a Senior Water Plant Operator and has over 37 years of water supply experience. He is highly experienced in the operation and maintenance of potable water supply production, treatment, and distribution systems.

Paul R. Lageraen, P.E., P.G., is a Vice President with 28 years of experience in environmental engineering. His current roles and responsibilities include serving as H2M's Director of Environmental Engineering, Forensics, and Industrial Hygiene, which comprises approximately 60 staff members including engineers, scientists, forensic architects, technicians, and other professionals. Mr. Lageraen oversees the technical execution of all projects within the discipline.

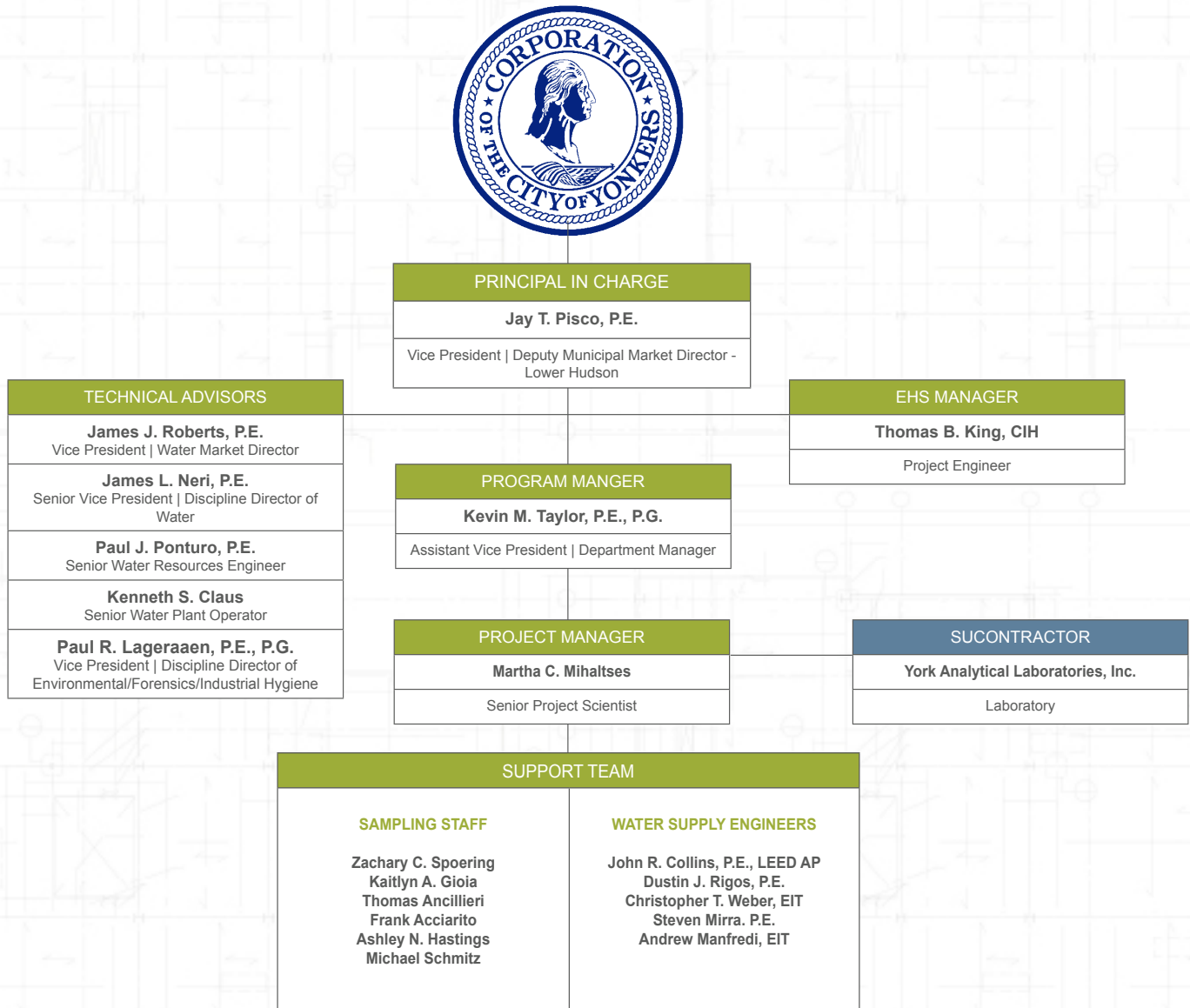
► Water Engineering Support Staff

John R. Collins, P.E., LEED AP; Dustin Rigos, P.E.; Chris T. Weber, EIT; Steven Mirra, P.E.; and Andrew Manfredi, EIT, are technical resources available to support the project and are part of H2M's water resources discipline. As engineers, they have notable design and maintenance experience associated with lead in water; sources and mitigation techniques; nitrate removal; volatile organic compounds removal; perchlorate removal, disinfection; hardness treatment; and water transmission, distribution, and storage.



Organizational Chart

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 the project personnel of our client. 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, should they arise.



Resumes for the above referenced key personnel are provided following this page, followed by our experience.





Experience

H2M

Education

M.S., Computer Science, Iona College

B.M.E., Mechanical Engineering,
Manhattan College

Licenses/Certifications

Professional Engineer: NY

Offices Held

Westchester County Association;
Board Member

Jay T. Pisco, P.E.

Vice President, Office Director

Mr. Pisco has more than 40 years of experience working on municipal and private projects in New York, New Jersey, Connecticut, Maryland, Louisiana and Puerto Rico. Prior to joining H2M, Mr. Pisco served as the Commissioner of the Westchester County Department of Public Works and Transportation where he was responsible for the oversight and management of much of the infrastructure and projects within the county. Mr. Pisco's deep knowledge within the region provides him with an unparalleled level of expertise.

Selected project experience:

- Project Principal and Client Advisor on several projects for municipal and private clients including Westchester and Putnam Counties. Work involves assisting clients with procurement and operational matters; structuring project and contract options; and developing strategies for project approach and contracts. Overall responsibility for the H2M Westchester Office.
- Oversaw and managed infrastructure and more than \$100 million in capital projects annually within Westchester County including the following facilities and services: the County Engineering Division; the Westchester County Airport; the Bee-Line bus system; the Bronx River Parkway; all County buildings and grounds; the Valhalla Campus; all County parking; the County fleet and garages; all County bridges; all County roads; the County Road Maintenance Division; and Hilltop Hanover Farm.
- Served as Commissioner Engineer for a water pollution control authority (WPCA) responsible for all technical aspects of the town sewer system, feasibility studies, asset management, cost analyses, sewer system extensions, pumping station design and construction monitoring.
- Project Manager for a feasibility study to evaluate the viability of a household hazardous waste facility. Work consisted of consideration of site layout; adjacent land use; operational and design requirements; availability of utilities; roadway configurations; access and egress routes; and development of conceptual site arrangements.
- Served as project manager for a storm water management and drainage project to remediate flooding in a residential area.
- Project Principal on projects for multiple municipalities involving Planning Board review efforts, dam safety inspections and other miscellaneous assignments.
- Served as Program Manager, Project Manager and lead technical consultant on several projects including technology assessments; preparing technical specifications and procurement documents; negotiating contracts; reviewing design; securing project permits; and monitoring construction, operations and maintenance activities. Assignments also included training and mentoring staff; developing monitoring programs; and management of quality aspects of products. Work included projects in New York, New Jersey, Connecticut and Maryland.
- Supervised, monitored and coordinated efforts for the replacement of four steam generators at the Indian Point Unit 3 1,000-MW nuclear power plant. This project was in excess of \$100 million. Prepared technical specifications for several types of plant equipment; evaluated bids and selected equipment; developed and implemented procedures for the use of the equipment; and established training for the proper handling and operation of the equipment. Worked as a nuclear power plant maintenance engineer for several outages to supervise and monitor the installation of plant modifications.
- Performed and monitored pre-operational and start-up testing of systems for two 560-MW



Martha C. Mihaltses

Senior Project Scientist

Ms. Mihaltses serves as project manager on numerous fuel oil spill claims each year. Her responsibilities include observation of residential oil spill sites for insurance clients for their evaluations of coverage and subrogation potential, development of remedial strategies and review/editing of contractor work proposals, monitoring remedial activities to ensure both cost effectiveness and compliance with NYSDEC protocols and industry standard practices. Ms. Mihaltses also supervises, mentors, and assists staff scientists with their project management duties. Furthermore, she consults with clients, contractors, state and local regulatory agencies, and homeowners throughout the entire remedial process, and serves as a primary point of contact for the client. Her involvement with residential oil spill claims has resulted in the successful removal of hundreds of active spill files from the NYSDEC Spill Incident Database.

Experience

H2M

Education

B.A., Geology, Colgate University

Licenses/Certifications

Hazardous Waste Operations and
Emergency Response, OSHA 40-hour

OSHA 10-hour Construction Safety
and Health

Storage Tank Installation and
Maintenance

Project Management Training
Program, H2M

NYSDEC Certified Class A/B Operator
of Underground Storage Tank Systems

LIRR Roadway Worker Protection

Memberships

Long Island Association of
Professional Geologists

Selected project experience:

- Residential site inspections and evaluations on behalf of multiple national insurance companies with a focus on determining liability, subrogation potential, and delineation of environmental impact with respect to petroleum releases. Comprehensive reporting and communication with clients, homeowners, and regulatory agencies.
- Forensic investigation into petroleum releases within New York State, including meticulous collection of soil samples, interpretation of GC/FID analytical results, and detailed reporting to insurance clients with respect to the time frame of long-term underground fuel oil releases.
- Phase II subsurface investigations at industrial, commercial, agricultural, and residential properties, including monitoring of drilling activities, usage of field screening tools and groundwater flow models, and development of remedial strategies based upon site investigation findings.
- Post-evaluation of fuel oil spill claims generated by the Office of the New York State Attorney General, including FOIL requests to the Attorney General and NYSDEC, review of all remedial documentation provided, determination of the cause and origin of the release based upon research findings, and negotiation of payment terms with the Attorney General's office.

Prior to H2M, Ms. Mihaltses graduated cum laude with a concentration in Geology and Environmental Science, and assisted with multidisciplinary, National Science Foundation-funded field research on the effects of the acid rain on Adirondack soil chemistry.



Kevin M. Taylor, P.E., P.G.

Assistant Vice President, Department Manager

Mr. Taylor is the Department Manager of the Environmental Services discipline in the Melville, NY office. Mr. Taylor is actively involved in department management roles, client development, project scheduling, field work supervision, and providing mentoring and professional development opportunities to the Environmental Services group.

Environmental experience has included management of large and small scale site characterizations and remedial investigations, Phase I and II environmental assessments, 24-hour spill response services and program management, spill related site investigations, work plans, underground injection control structure remediation, groundwater sampling and monitoring, providing expert witness and litigation support services and forensic investigations. Mr. Taylor also has experience in providing training to clients in environmental remediation and testing related services. He also serves of H2M's Corporate Safety Committee, bringing expertise and perspectives in field work driven services and fire safety to the committee.

Experience

H2M
Laurel Environmental Associates, Ltd.

Education

M.S., Geosciences, State University of New York at Stony Brook
B.S., Biology, State University of New York at Stony Brook

Licenses/Certifications

Professional Engineer: NY
Professional Geologist: NY
Hazardous Waste Operations and Emergency Response, OSHA 40-hour
30-hour OSHA Construction Safety and Health
10-hour OSHA Construction Safety and Health
NAFI Certified Fire and Explosion Investigator
NAFI Certified Fire Investigation Instructor
NYSDEC Certified Class A/B Operator of Underground Storage Tank Systems
IAAI Fire Investigation Technician
LIRR Roadway Worker Protection

Presentations/Publications

Revisions to NFPA 921 - Guide to Fire & Explosion Investigations - 2021 Edition
Webinar: "Understanding Safety Concerns: Asbestos at the Fire Scene." National Association of Subrogation Professionals, www.subrogation.org, May 2018.

"After the Fire - Asbestos and Other Hazards Pose Risk to Fire Investigators and Claims Personnel." CLM - Claims Litigation Management Alliance, February 2018.

Selected project experience:

- Provided investigation and consulting services following the improper excavation of 70,000 cubic yards from a 2.1 acre site. Provided guidance regarding backfill specifications and routine sampling and analysis of soils for six NYCRR Part 375 list environmental parameters, sieve, and gradation analysis. Mobilized staff to witness and observe excavation activities on behalf of the local Town.
- Completion of air facility registrations and permit applications (NYSDEC Minor and State permits) and permit closures for various industrial and commercial facilities.
- Assessment of hydrogen generation during lead-acid battery charging activities during pharmaceutical facility operations. Comparison of data collected to the LEL and UEL of hydrogen and provided Best Management Practices for continued facility operations.
- Investigation of fire and explosion events to determine origin and cause. Author of substantive revisions to NFPA 921 - Guide to Fire & Explosion Investigations - 2021 edition, specifically with regards to Chapter 13 Safety and asbestos.
- Initial site assessments to determine the potential for petroleum related impact. Review of site and spill incident history to determine potential for subrogation of claim costs. Technical assistance and monitor contractor during remedial activities. Hydrogeological Investigations. Reporting to regulatory agencies. Testimony given during arbitration hearings to assist with liability determinations referencing National Oilheat Research Alliance Recommendations and National Fire Protections Association codes.
- Evaluation of heating and fuel consumption records to assess if heat was maintained at various properties.
- Managed a 24-hour spill response program responding to petroleum releases to provide environmental consulting services when needed.
- Provided detailed analysis of contractor invoices for a sulfuric acid discharge in New Mexico.
- Based on Phase I ESA and Phase II ESA findings, generated various plans including In-Situ Soil Characterization Plans, Health and Safety Plans, Soils Management Plans, and Remedial Investigation and Remedial Action Plans for various contaminants at commercial and industrial properties. Provided technical oversight as necessary to facilitate remedial activities. The services included review of daily work logs, contractor equipment and rental charges for consistency with the scope of services provided and invoiced for.



Memberships

Claims Litigation & Management Alliance - Property Committee

International Association of Arson Investigations

IAAI NYS Chapter - Peer Review Committee

International Association of Hydrogeologists

Long Island Association of Professional Geologists

Kevin M. Taylor, P.E., P.G.

Selected project experience, continued:

- Phase I Environmental Site Assessments at properties of various usages. Phase II Subsurface Investigations at industrial, commercial, agricultural and residential properties.
- Assessment of an industrial park in Downers Grove, Illinois. Determined EPA mandated activities to be performed within the park, researching each property individually and assisted the insurance company with assigning a proportional risk based on number of activities to be performed at each site.
- Technical assistance during the removal of one 10,000-gallon underground fuel oil storage tank and excavation and disposal of approximately 1,500-tons of fuel oil impacted soil.
- Technical assistance during the removal of 1,000-cubic yards of petroleum impacted soils during excavation and installation of a building footprint. This project involved the coordination of contractors, regulatory authorities and clients. Collected confirmatory endpoint soil samples for future analysis and submission of a detailed closure report to NYSDEC.
- Technical assistance during the remediation of a minimal overfill from a 4,000-gallon vaulted basement aboveground fuel oil storage tank and the large volume discharge due to corrosion from beneath the tank. Collected forensic evidence for later subrogation events with a report documenting findings.
- Technical assistance during the removal of multiple underground fuel oil storage tanks at a condominium complex. Collected soil samples for age dating purposes. Evaluated groundwater flow direction and several fuel oil markers to determine the retardation and effective flow rates of select volatile and semi-volatile organic compounds in groundwater. Utilized these calculations to support the subrogation of claim costs against potentially responsible parties.
- Testimony in State Court as an expert regarding the investigation and subsequent remedial activities associated with a petroleum discharge.
- Conducted worker exposure assessments and flammability investigations at a pharmaceutical facility in Suffolk County, New York.

Prior to H2M, Mr. Taylor was an environmental consultant for a subsurface investigation company, a subsidiary of Laurel Environmental Associates, Ltd. As such, he was responsible for direct push equipment operation, billing and project management and performing Phase I and Phase II reports. Mr. Taylor has been involved in the collection of subsurface soils and groundwater at numerous properties throughout Long Island and the five Boroughs of New York City.



Experience

H2M
NYCDEP
NYCDDC

Education

B.E., Civil Engineering, Manhattan
College

Licenses/Certifications

Professional Engineer: NY
NYS Certified Water Operator Grade D:
Distribution Systems

Memberships

American Water Works
Association
NYWEA

Offices Held

NYS AWWA Past Trustee at Large
NYS AWWA Water Utility Council,
Vice-Chair
NYWEA Executive Group

James J. Roberts, P.E.

Vice President, Market Director of Water and Wastewater

Mr. Roberts is an accomplished professional with more than 35 years of experience in the operations and maintenance of New York City's water supply, distribution, wastewater collection and storm water management, one of the most extensive water and sewage systems in the world. As the former Deputy Commissioner of the NYC Department of Environmental Protection, Mr. Roberts was responsible for overseeing approximately 1,300 employees, nearly 15,000 miles of water and sewer infrastructure, a capital improvement plan of \$1.5 billion and an annual operating budget of \$185 million, delivering over 1 billion gallons of water a day to 8.5 million New York City residents. As Market Director for Water and Wastewater, Mr. Roberts utilizes his technical background, familiarity with municipal infrastructure and government, and overall industry knowledge to provide guidance and leadership. Mr. Roberts brings a qualified perspective of what clients are seeking in a consulting experience.

Selected project experience:

- Long Island Commissioner for Aquifer Protection/SCWA: Directed the development of Watershed Protection reports related to Long Island's sole source aquifer. The project focused on assessments of impacts to private wells, regional water contamination threats from existing plumes, potential threats from emerging contaminants (1,4 Dioxane, PFAS, PFOA, etc), environmental impacts such as climate change and sea level rise, impacts on water quantity and quality associated with plans to expand public water supply, wastewater collections, and treatment facilities. The overall report identified long-term and short-term opportunities and risks and creates a framework for the numerous public suppliers, regulators, and health officials to assess future strategic planning on both a local and regional level.

Selected project experience prior to H2M:

- Croton Water Filtration Plant (CWFP): Created the project transition team that established the operational organizational structure for the City of New York's first ever water filtration plant. At a cost of more than \$3.2 billion, the plant is rated at 290 MG and uses dissolved air floatation technology, full plant automation, and SCADA and CMSS systems. Established staffing, budgetary and training plans for the creation of a greenfield directorate responsible for operations, maintenance and repairs. With a staffing of approximately 60 persons and an operating budget of approximately \$35 million the plant was activated into service in May 2015.
- Executive Chief Engineer, City Tunnel #3 Stage II Manhattan: 8.5 miles of 12 foot diameter deep rock, concrete lined tunnel at elevations up to 500 feet below grade, carrying more than 50 MGD of Catskill/Delaware water to lower Manhattan, it was activated in October 2013. Responsibilities included ensuring regulatory compliance while commissioning 4 of 10 distribution chambers housing over 20 48" diameter butterfly valves, pump, elevator, HVAC, electrical, plumbing and instrumentation systems. Developed and implemented distribution plans and models to effectively integrate the new tunnel into the existing distribution system without disruption of service.
- Chief of Tunnel Operations and Maintenance, City Tunnel #3 Stage I Manhattan: 13 miles of 24 foot diameter deep rock, concrete lined tunnel activated in 1998 and capable of carrying up to 2 BGD of flow, this section of tunnel provided critical redundancy and replacement for the northern section of City Tunnel #1, which went into service in 1917. Responsibilities included ensuring regulatory compliance, commissioning all associated mechanical, electrical, pumping, elevator and HVAC systems in 14 distribution chambers including three main control chambers built up to 250 feet below grade in bedrock.

James J. Roberts, P.E.

Selected project experience prior to H2M, continued:



- Director of Capital Construction, QED935: \$35 million capital project that included more than 2.5 miles of 60 inch diameter steel water main and appurtenances, 8, 12 and 20 inch DIP water mains, cathodic protection systems, 15 inch through 48 inch combined sewers both ESVP and RCP and curb, sidewalk and roadway restoration. Included the major reconstruction of Shaft 11A off of City Tunnel No. 2 that included new 72 inch valves, HVAC, electrical, mechanical, plumbing and instrumentation systems.
- Arden Heights Sewer Expansion and Bluebelt; Staten Island, NY: As part of the upgrade, more than a mile and a half of storm sewers and 100 catch basins were installed to help drain precipitation from the roadways. The stormwater will be diverted to a new bluebelt area where it will be stored and naturally filtered before it empties into the Arthur Kill. The project also included the installation of more than a mile and a half of sanitary sewers that will allow 114 homes to connect to the City's sewer system and discontinue the use of septic tanks. In addition, work included the installation of new water mains, the reconstruction of the roadways, and sidewalks.
- Senior Engineering Manager, QED933: Oversaw trunk water main improvements. 3.5 miles of 48 inch diameter RCCP trunk water main including a jack section across the Van Wyck Expressway, 8, 12 and 20 inch distribution water mains and 15 inch ESVP combined sewers.
- Senior Engineering Manager, QED 952: Oversaw 50,000 sq of distribution water main installations including 8, 12 and 20 inch DIP in various neighborhoods of the borough of Queens. Project complexities included coordination of shutdowns, traffic coordination, regulatory compliance and sampling.
- Senior Engineer, QED864: Responsible for the program management of a borough wide valve capital replacement program which included valves from 6 inches to 48 inches in diameter. The project included construction of numerous pressure regulating facilities, trunk water main installations, cathodic protection systems, etc.
- Storm and Sewer Sanitary Reconstructions, Rockaway, Queens: The project included the installation of 12 inch to 36 inch storm and sanitary sewers and 20, 12 and 8 inch diameter distribution water mains.
- First Avenue Manhattan, 106th Street to 125th Street: Highway led project entailed the installation of 48 inch diameter steel water mains, 12 inch through 54 inch combined sewers including pile supported sections and roadway improvements with reinforced concrete pavement, steel curbs and sidewalk.



Experience

H2M

Western States Reclamation, Inc.

Wadsworth Golf Construction
Company

Belt Collins Engineering

Education

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

Applied Groundwater & Contaminant
Transport Modeling, Waterloo
Hydrogeologic

Dynflow, Dyntrack, Dynplot
Groundwater Modeling Codes

Licenses/Certifications

Professional Engineer: NY, NJ, CT

C-2 Specifying and Managing
Protective Coatings Projects-
Advanced, SSPC

Memberships

American Water Works Association

Long Island Water Conference

James L. Neri, P.E.

Senior Vice President, Discipline Director of Water

Mr. Neri is responsible for managing the Water Resources Discipline, which includes 40 water supply engineers, scientists, inspectors, and specialists with experience levels from entry to senior, covering six of H2M's current offices.

As Discipline Director, he is responsible for the management, design, construction, and commissioning of water supply projects, including source development, wells, distribution systems, water treatment, and water storage facilities. Mr. Neri is also the client manager for several of H2M's water supply clients. As such, his duties include planning, engineering reports and studies, plans and specifications, evaluating and designing new and/or modified water supply facilities, building systems, mechanical and pumping stations, control systems, and treatment systems. He is responsible for being informed of emerging water quality and regulatory issues. He also holds extensive experience in construction, groundwater and aquifer assessments, water quality, and regulatory requirements.

Selected project experience:

- Rehabilitation of Queens Groundwater system: Project manager for the NYCDEP contract for the design and design services during construction of a \$180 million project to reactivate the 60+ supply wells in Queens, NY. Treatment system designs based on varying water quality.
- Volatile Organics Removal system for the Plainview Water District Plant No.7. Construction schedule mandated complete of \$800,000 contract in four months requiring fast track project management and intense coordination oversight.
- Developed groundwater model for the Hicksville Water District, using Nassau County groundwater model to develop local model to evaluate the possible path of contaminants from a NYSDEC known hazardous waste site.
- Developed a local groundwater model to recommend the installation location of guardian wells to be installed by the responsible party of a known VOC plume approaching numerous South Farmingdale Water District and New York Water Service wells.
- Developed a local groundwater model to evaluate the net effect of constructing and operating four new wells on the Calverton Industrial Complex in Riverhead, New York. The model evaluated the effect of the pumping on the groundwater table specifically as it relates to its interface with the retention ponds on the southern side of the property and the Peconic River.
- Computerized groundwater flow model for Hicksville, South Farmingdale, Bethpage, and Riverhead Water Districts to determine potential impacts of possible contamination and groundwater movement into and out of new and existing well fields.
- Construction liaison between client and NYSDEC for remediation activities involved with the Franklin Cleaners hazardous waste site.
- New pump station design and construction administration for Riverhead and South Farmingdale Water Districts. Services include plans and specification preparation, bidding, multiple contractor coordination, obtaining Health Department approvals.
- Iron removal treatment system design and construction oversight for the New York Water Service. Services included pilot study report; confirming treatment efficiencies, permit approval expediting, and zoning board of appeals hearings representation.

James L. Neri, P.E.



Selected project experience, continued:

- Elevated storage tank replacement design and construction administration for the West Hempstead-Hempstead Gardens Water District. Services include plans and specification, bidding, and contractor coordination with community involvement and input.
- Review and coordination of installations of cellular carriers on elevated storage tanks throughout Long Island. Scope includes review of plans and direction of field inspectors inspecting installation work of tanks.
- Rehabilitation and repainting of elevated storage tank for Riverhead Water District. Services included full containment, structural steel repairs and full interior and exterior coatings.
- Supervise inspection staff responsible for multiple water storage facilities on Long Island. Duties included scheduling providing cost opinions based on deficiencies identified and preparing RFP to perform repair work.
- Fire pump test header at State University of New York at Stony Brook Health Science Center. Prepared plans and specifications for the construction of a 6,000 gallon per minute test header allowing the center to document their fire preparedness and meet the insurance underwriter requirements.

Prior to joining H2M, Mr. Neri directed a \$10 million annual general contracting firm overseeing excavation, pump station construction, golf course and park construction, and landscaping and facilities maintenance projects, supervised contract bidding and fulfillment, negotiated and managed supply contracts, directed road widening, oversaw erosion control projects and ecologically sensitive land near construction sites. His experience also includes Master Plan studies, evaluation of existing and projected water and sewer requirements, residential subdivision plan and design review, and sewer and potable water system plans.



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, 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.

Experience

H2M
Suffolk County Department of Health Services

Education

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

Articles/Papers

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.
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 Tift Symposium, 11/15/06.
Distribution System Monitoring, NYSAWWA Training, 10/06.

Articles/Papers continued

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.
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 Tift 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 Tift Symposium, 10/29/97.
Groundwater Problems and Supply, NYS Assoc. of Conservation Commissions, Annual Meeting, 4/97.



Experience

H2M

Village of Freeport
Plainview Water District

Education

A.A.S., Business Administration, State
University of New York at Farmingdale

Licenses/Certifications

Licensed 1B Groundwater Treatment
Plant Water System Operator, NYSDOH

Memberships

Long Island Water Conference, Board
of Directors

Kenneth S. Claus

Senior Water Plant Operator

Mr. Claus has over 37 years of water supply experience. He is highly experienced in the operation and maintenance of potable water supply production, treatment and distribution systems.

Selected project experience:

- Inc. Village of Freeport – Superintendent of Water and Wastewater System. Supervised staff of 20 employees in all aspects of potable water supply, treatment and distribution and wastewater collection and pumpage.
- Breezy Point Emergency Post Major Storm Response Services – Supervised and coordinated water service restoration and recovery services for Breezy Point Cooperative, Inc. post Super Storm Sandy. He field implemented flushing procedures to provide required minimum flow velocities and water turnover rates to conform to NYCDOH requirements. He assisted Cooperative maintenance and plumbing staff to identify strategic valves and hydrants to facilitate flushing through the use of existing mapping and field verification. Field verification and development of flushing movements was performed on site. Coordinated and phased in the sampling to validate the water quality within successfully flushed zones that was used to fast track restoration of water service to Breezy Point.
- Plainview Water District – Superintendent of Water District. Supervised 16 employees in all aspects of potable water supply, treatment and distribution.
- Supervised construction of 6.5 MGD water supply and treatment plant at Prince Avenue. Project included three deep turbine wells, SCADA controls, and security system. Coordinated general contractor, mechanical, electrical, well construction, security contractors, and regulatory agencies.
- Electrical upgrades for Buffalo Avenue Sewer Lift Station. Supervised installation of electrical control system, pump starters, alarm system, and bypass piping for efficient operation during mechanical failures.
- Sewer main replacement at Buffalo Avenue. Project included replacement of 230 linear feet of eight inch sewer main and lateral connections.
- Installation of SCADA system for the Freeport Water Department. On site and remote control of well functions, tank levels and pressures.
- Instituted water distribution system maintenance programs, including distribution system valve maintenance, annual distribution system flushing program, and water meter replacement program.

Prior to H2M, Mr. Claus was at the Plainview Water District since 1973 starting as water servicer, then water plant operator and finally water superintendent. He oversaw all aspects of water supply, production, treatment, transmission and distribution. He prepared annual budgets, made presentations at public board meetings, and resolved consumer issues throughout the district.



Paul R. Lageraaen, P.E., P.G.

Vice President,

Discipline Director of Environmental/Forensics/Industrial Hygiene

Experience

H2M
Brookhaven National Laboratory
Stone & Webster, Environmental
Services Division

Education

M.E., Chemical Engineering, McGill
University
B.S., Chemical Engineering, State
University of New York at Buffalo

Licenses/Certifications

Professional Engineer: NY
Professional Geologist: NY
OSHA HAZWOPER,
OSHA Construction Safety,
Roadway Protection Training, MTA/
LIRR

Memberships

American Institute of Chemical
Engineers

Articles/Papers

Full-Scale Technology Demonstration
of a Polyethylene Encapsulation
Process for Radioactive, Hazardous,
and Mixed Wastes. Journal of
Environmental Science and Health,
Part A: Environmental Science and
Engineering and Toxic and Hazardous
Substance Control, Volume 31, No. 7,
1996.

Polyethylene Encapsulation of
Depleted Uranium Trioxide. Emerging
Technologies in Hazardous Waste
Management 8, May 2000.

DUPoly Process for Treatment of
Depleted Uranium and Production of
Beneficial End Products. U.S. Patent
6,030,549.

Mr. Lageraaen is a principal consulting engineer with 28 years of experience in environmental engineering. His current roles and responsibilities include serving as H2M's Director of Environmental/Engineering, Forensics and Industrial Hygiene, which comprises approximately 60 staff members including engineers, scientists, forensic architects, technicians, and other professionals. Mr. Lageraaen oversees the technical execution of all projects within the Discipline serving the Education, Energy/Utility, Industry, Insurance, Municipal, Real Estate and Water/Wastewater Markets. Mr. Lageraaen is also the Director of H2M's Health & Safety Program with the responsibility to implement policies, procedures, practices and written plans to promote and ensure a safe work environment for all staff from administration and designers to field engineers and construction inspectors.

Mr. Lageraaen's diverse experience includes environmental due diligence, site investigation and remediation, spill response, stormwater and wastewater permitting, treatment and compliance, air emission permitting, regulatory compliance auditing, remedial design, petroleum and chemical bulk storage, tank and containment design, CERCLA and RCRA-driven compliance, indoor air quality, exposure assessments and evaluations, risk management, and damage assessments. Mr. Lageraaen has prepared many site investigation related documents as well as Spill Prevention Control and Countermeasure (SPCC) Plans, Stormwater Pollution Prevention Plans (SWPPPs) for industrial activity, RCRA and Facility Closure Plans, Hazardous Waste Contingency Plans, Spill Prevention Reports (SPRs), Best Management Practices (BMP) Plans, Health and Safety Plans (HASPs), and Quality Assurance Project Plans (QAPPs). Mr. Lageraaen also has extensive experience and training with hazardous materials, universal wastes, radioactive materials, accountable nuclear materials, mixed wastes and waste minimization planning.

For nearly 20 years, Mr. Lageraaen has served as the client manager for multiple electric and gas utility blanket contracts for environmental services. Hundreds of projects have been successfully completed including but not limited to: environmental permitting, environmental monitoring, oil and PCB spill response and long-term management, property asset management, facility closure, facility demolition and construction, industrial hygiene, worker exposure, waste treatment design, field construction oversight and regulatory compliance.

Selected project experience:

- Directed Remedial Action projects under the NYC Brownfield Cleanup Program for sites in Brooklyn and the Bronx. Received a Big Apple Brownfield Award for the Bronx commercial redevelopment project on 125th Street.
- Managed a comprehensive trace mercury sampling program at NYC power generation facilities for the local electrical utility.
- Engineer of Record for a NYS Brownfield Cleanup Program site in Astoria, NY with groundwater, soil vapor and historic fill contamination issues.
- Managed the environmental sampling components of Manhattan District Attorney and NYSDEC Police Investigations.
- Directed and provided engineering certification for the recent closure and demolition of electric power generating stations in Glenwood and Far Rockaway, NY. Closure services were required for or included Major Oil Storage Facility (MOSF) licensure, NYSDEC RCRA Closure, NYSDEC SDPES permitting and NYCDEP sewer connection permitting.



Paul R. Lageraaen, P.E., P.G.

Selected project experience, continued:

- Served as the Project Manager for a part of an indefinite delivery, on-call contract during the initial spill response and currently as the director for the long-term remediation of a high-concentration PCB gas condensate release in Brooklyn, NY that implicated soil, groundwater, and surface water.
- Project manager for a \$20 million soil remediation program involving approximately 175,000 tons of contaminated soil and debris including RCRA Hazardous and TSCA Regulated material.
- Managed an environmental assessment for approximately 13 miles of an underground electrical distribution system as part of an asset transfer to a local utility.
- Managed an environmental investigation and the NYSDEC- approved remedy selection for lead contamination from a former rifle range in a public school basement.
- Prepared remedial design alternatives for groundwater contamination from a 24,000 gallon oil release that occurred beneath a busy intersection in a populated residential community.
- Project manager for multiple spill response investigations and remediation of transformer and dielectric cable fluid releases.
- Project manager for a groundwater remediation system to hydraulically control and remediate a subsurface 42,000 gallon oil release.
- Managed the remediation of a gasoline spill from a 4,000-gallon UST requiring excavation through the shallow groundwater table and beneath an existing building foundation.
- Designed a soil vapor intrusion mitigation system and a separate soil vapor extraction system to address 1,1,1-trichloroethane contamination beneath an existing commercial building.
- Managed multiple RCRA facility closure projects including a large circuit board manufacturing facility, three hazardous waste management units for a local utility, an industrial shop towel reclamation facility, and a plastic manufacturing facility.
- Developed a soil vapor mitigation system for a planned residential development to address chlorinated solvent contamination in groundwater and shallow soil vapor.
- Project manager responsible for the design and permitting of a 20,000 gallon underground storage tank used as secondary containment for flammable chemicals.
- Managed air compliance and auditing for a State Facility Air Emission Permit for two boilers associated with a steam plant at a Government Owned-Contractor Operated (GOCO) facility on Long Island.
- Managed indoor air quality and mold consultation projects for insurance companies, public and private companies, and school districts. Projects involve initial testing, preparation and review of remediation specifications, clearance testing, preparation and review of final reports.
- Managed an environmental compliance audit of a large pathology laboratory including air emissions, waste management (solid, universal, hazardous and medical wastes), wastewater and community right to know.
- Managed an environmental compliance audit of a generic pharmaceutical manufacturer including air emissions, waste management (solid, universal and hazardous wastes), wastewater and community right to know.



Thomas B. King, CIH

Project Engineer

Mr. King is a Certified Industrial Hygienist (CIH) with 10 years of environmental consulting experience in New York. He holds a Bachelor's Degree in Environmental Science from the University of Limerick, Ireland; and a Master's Degree in Environmental Engineering from Chungbuk National University (CBNU), South Korea. His post-graduate research work at the Environmental Systems Engineering Laboratory at CBNU in South Korea for three years conducting hydrology, soil erosion, and space syntax research. He taught Environmental Science and English Language at CBNU for three years and also studied Korean language at CBNU and Seoul National University. Mr. King's work experience in Ireland includes working as an Environmental Scientist for Dairygold Co-operative Society involved in environmental reporting and wastewater treatment operations at their facilities in Mitchelstown, Co. Cork. Mr. King also worked on more than 10 archaeological excavations across Ireland and one in Albania.

Experience

H2M
M&M Environmental

Education

M. Eng Environmental Engineering,
Chungbuk National University
BS, Environmental Science, University
of Limerick

Licenses/Certifications

Certified Industrial Hygienist (CIH) by
ABIH
Qualified Environmental Professional
(QEP) by IPEP
NY DOL Licensed Asbestos Inspector
and Mold Assessor
NYCDEP Certified Asbestos
Investigator
NYCOER Gold Certified Professional
40 Hour HAZWOPER Training
OSHA 10 Hour Construction Safety &
Health
OSHA 30 Hour Construction Safety &
Health
OSHA 8 Hour Confined Space Entry
Training
EPA Method 9 Visible Opacity Reading
Certificate
H2M Project Management Training
OSHA Authorized General Industry
Safety Trainer

Selected project experience:

- Serving as H2M's corporate health and safety manager has included annual employee respirator fit testing, instituting, and maintaining various health and safety plans, including respiratory protection, bloodborne pathogens, and hazard communications, annual and new hire safety training, building a corporate health and safety database, ensuring compliance, and contributing to the overall health and safety culture of the company.
- Serving Long Island based school districts with services including surveys of asbestos containing materials, indoor air quality, mold and hazardous materials, due diligence review of contractor health and safety plans, and survey of laboratory acid-neutralization tanks.
- Serving the Insurance, Real Estate, and general Industry Markets with technical review of industrial hygiene reports related to exposure to chemical vapors, mold, silica, asbestos, radon, VOCs, and other IAQ contaminants.
- Teaching health and safety classes, accredited by NYSDOH and NYSDEC, in such topics as respiratory protection, hearing conservation, hazard communication, personal protective equipment, toxicology, confined space entry, and lockout/tagout.
- Pre-construction building condition assessments related to the Gowanus canal superfund site remediation project.
- Hundreds of field investigations related to insurance claims involving property damage and indoor air quality issues.
- Performing noise exposure assessments for the industrial and public utility clients.
- Performing community noise assessments in support of environmental impact assessments (EIAs).
- Soil Vapor investigations for the Real Estate Market.
- Field radiological surveys for local municipalities.

Selected project experience prior to H2M:

- Environmental project management including contaminated soil excavation and disposal from NYCOER E-designated properties and design and construction of sub-slab depressurization systems (SSDSs) including a six-story 2,500 square foot footprint commercial building in Long Island City.
- Hundreds of mold assessments, asbestos inspections, and indoor air quality (IAQ) surveys involving sampling for dust, silica, and VOCs for clients including Nike, Morgan Stanley, Saks 5th Avenue, Alexander Wang, and Genesis Maintenance.
- IAQ management during construction of a new 150,000 square foot theater space in midtown Manhattan for credits toward LEED certification.



Thomas B. King, CIH

Selected project experience prior to H2M, continued:

- Instituting and maintaining written safety plans including a respiratory protection program.
- Post-graduate research work at CBNU included research into the use of space syntax analysis models for use in conjunction with hydrology modeling software, analyzing local rainfall patterns in order to model climate change scenarios using Cligen (a stochastic weather generator) and the Water Erosion Prediction Project (WEPP), learning and tutoring other students in the use of hydrology software including the Surface Water Modeling System (SMS) and ArcGIS desktop.
- Work experience at Dairygold Co-Operative Society in Co. Cork, Ireland included day to day operations of the wastewater treatment plant (WWTP), sampling and laboratory analysis of wastewater at various stages of treatment and surface waters in the local watershed, analysis of various dairy byproducts such as waste whey destined for use as pig feed, labelling components (pipes, pumps, valves, etc.) of the WWTP and investigating releases of process water and other fluids to groundwater from the manufacturing areas of the facility.
- Archaeological sites that Mr. King has worked on include: various Neolithic settlements through Co. Wicklow and Co. Wexford encountered during the construction of the M11 motorway, Neolithic wetland settlements and trackways in Co. Longford and Co. Offaly, excavation documentation or remains in a medieval cathedral in Naas, Co. Kildare prior to the development of a new multi-story car park, and excavation of the Roman Triconch Palace at Butrint in modern Albania.



Experience

H2M

B. Laing & Associates Inc.
New York State Department of
Environmental Conservation (internship)

Education

B.A., Environmental Studies, Stony
Brook University

Licenses/Certifications

Hazardous Waste Operations and
Emergency Response, OSHA 40-hour
OSHA 10-hour Construction Safety &
Health

NYSDEC Certified Class A/B Operator
of Underground Storage Tank Systems

Zachary J. Spoering

Staff Scientist

Mr. Spoering serves as a staff scientist for numerous fuel oil spill claims each year. His responsibilities include inspection of residential and commercial oil spill sites for insurance companies to evaluate subsurface soil and groundwater impacts, coverage and subrogation potential. He is also involved in review and revision of contractor invoices, proposals and provides consultation during remediation to ensure cost effectiveness as well as compliance with regulations mandated by the New York State Department of Environmental Conservation (NYSDEC). Mr. Spoering works with regulatory agencies, contractors and homeowners throughout the entire remedial process to attain spill closure.

Mr. Spoering also provides services as a wetland scientist for clients requiring permits from regulatory agencies for proposed projects impacting freshwater and tidal wetland habitats. He additionally provides delineation services in order to determine jurisdictional wetland boundaries in conformance with delineation methodologies approved by the regulatory agencies. Mr. Spoering has developed a strong knowledge on wetland project development over several years of experience working on numerous wetland projects.

Selected project experience:

- Site inspections and evaluations on behalf of multiple national insurance companies with focus on determining liability, subrogation potential and delineation of environmental impact with respect to petroleum releases. Comprehensive reporting and communications with clients, property owners and regulatory agencies.
- Forensic investigation into petroleum releases, including meticulous collection of soil and groundwater samples, interpretation of GC/FID analytical results, detailed reporting to insurance clients with respect to the timeframe of long-term petroleum releases.
- Daily oversight on long term projects that require the removal of oil impacted soil. Works closely with contractors, environmental consultants, the NYSDEC, and property owners during environmental remediation projects.
- Mr. Spoering is also responsible for maintaining communications with the NYSDEC to facilitate rapid spill closure. He coordinates well monitoring event schedules with contractors. His involvement with residential and commercial oil spill claims has resulted in the successful removal of a multitude of active spill files from the NYSDEC Spill Incident Database.
- Conducts freshwater and tidal wetland delineations to determine and establish jurisdictional wetland boundaries based on methodologies laid out by NYSDEC and the Army Corps of Engineers.
- Knowledgeable in environmental laws and regulations pertaining to wetland land use including, Articles 24 and 25 of the Environmental Conservation Law and Parts 661 through 664 of the New York Codes Rules and Regulations.
- Analyze the existing conditions of a wetland and evaluate proposed project impacts qualitatively and quantitatively. Propose practical and effective methods to alleviate and mitigate negative environmental project impacts.
- Assists in preparation and submittal of various wetland permit applications required by the NYSDEC and Army Corps of Engineers. Additionally, corresponds with clients and applicable state agencies in order to expedite acquisition of permits for projects.



Zachary J. Spoering

Selected project experience, continued:



Prior to H2M, Mr. Spoering was a technical scientist for an environmental consulting firm primarily involved in freshwater and tidal wetland delineation and mitigation. He gained experience in regulatory compliance, SWPPP development as well as conducting Phase I and Phase II environmental assessments. He also corresponded regularly with government agencies including the NYSDEC and Army Corps of Engineers. Additionally, Mr. Spoering interned with the NYSDEC, further gaining experience in regulatory compliance, assisting in delineation of tidal/freshwater wetlands, carrying out Hurricane Sandy general permit compliance inspections and observing violation meetings.



Kaitlyn A. Gioia

Staff Scientist

Ms. Gioia serves as a Staff Scientist within the Environmental Group. Her responsibilities include inspection of residential and commercial petroleum spill sites for insurance companies to evaluate subsurface soil and groundwater impacts, coverage, and subrogation potential. She is also involved in review and revision of contractor invoices, proposals, and provides consultation during remediation to ensure cost effectiveness; as well as compliance with regulations mandated by the New York State Department of Environmental Conservation (NYSDEC). Ms. Gioia works with regulatory agencies, contractors, and homeowners throughout the entire remedial process to attain spill closure.

Experience

H2M

Education

B.A., Environmental Studies; Adelphi University

Licenses/Certifications

Hazardous Waste Operations and Emergency Response, OSHA 40-hour
OSHA 10-hour Construction Safety Training Course

New York State Department of Labor, Asbestos Inspector License Certification

New York State Department of Environmental Conservation, Class A/B Operator of Underground Storage Tank Systems

Dig Safely New York, Inc. Excavator Safety and Buried Utilities Training 2017

Land Science A Division of Regenesix Training Webinar - Vapor Intrusion: Impact on Environmental Due Diligence April and June 2017

USEPA Lead Based Paint Inspector
LIRR Roadway Worker Protection

Publications

Dutton, J.; Gioia, K.A.; Fisher, N.S., Madigan, D.J.; (2016) Tissue distribution of mercury in female spiny dogfish (*Squalus acanthias*). Society of Environmental Toxicology and Chemistry South-Central Regional Meeting. Fort Worth, TX.

Dutton, J.; Gioia, K.A.; Fisher, N.S.; Madigan, D.J.; (2016) Maternal transfer of mercury in spiny dogfish. 12th International Congress on the Biology of Fish. San Marcos, TX.

Dutton, J.; Gioia, K.A.; Fisher, N.S.; Madigan, D.J.; (2017) Mercury Bioaccumulation and Maternal Transfer in Spiny Dogfish (*Squalus acanthias*). 33rd Annual Meeting of the American Elasmobranch Society/ Joint Meeting of Ichthyologists and Herpetologists. Austin, TX.

Ms. Gioia is also responsible for maintaining communications with the NYSDEC to facilitate rapid spill closure. She coordinates well monitoring event schedules with contractors. Her involvement with residential and commercial oil spill claims have resulted in the successful removal of a multitude of active spill files from the NYSDEC Spill Incident Database.

Selected project experience:

- Site inspections and evaluations on behalf of multiple national insurance companies with focus on determining liability, subrogation potential, and delineation of environmental impact with respect to petroleum releases. Comprehensive reporting and communications with clients, property owners, and regulatory agencies.
- Forensic investigation into petroleum releases, including meticulous collection of soil and groundwater samples, interpretation of GC/FID analytical results, detailed reporting to insurance clients with respect to the time frame of long-term petroleum releases.
- Community air monitoring during paint removal for a natural gas conduit at a large government facility. Monitored for the presence of dust, lead, and volatile organic compounds in air at locations up-gradient and down-gradient from the work area.
- Collection of suspected sanitary contaminated water within electric vaults within the NYC area. Reviewed analytical reports and assessed for the presence of sanitary waste indicators. Provided recommendations as necessary for each vault location.
- Chatham, NY - provided alternate potable water sources. Provided environmental consulting services to an insurance company regarding a petroleum spill at a residential property. During the investigation, it was determined no significant remedial activities were provided at the spill site, some 14 years prior to H2M's involvement. Reviewed geological and remedial summary reports to assess for the potential for subsurface impact remaining. Reviewed historical quarterly sampling and analysis reports that were monitoring for the presence of dissolved VOCs at the site. Based on the presence of long-term dissolved phase VOCs remaining in groundwater 14 years after the initial incident, determined an un-remediated source area remains. To alleviate potential for exposure to site residents, recommended the installation of a new potable well. Witnessed and observed the installation of a new well using air rotary drilling techniques.
- Provide monitoring services at spill sites contaminated with dielectric cable fluid on behalf of utility company clients.
- Asbestos Hazard and Emergency Response Act (AHERA) inspections and evaluations in schools.



Kaitlyn A. Gioia

Selected project experience, continued:

- Conducted lead in drinking water assessments for lead in water at various school districts. Coordinated for district convenient sampling dates and times to ensure district operations were not interrupted. Sampling and analysis was conducted consistent with USEPA and NYSDOH guidance documents to evaluate for the presence of lead within piping and fixtures. Provided comprehensive reports detailing findings.
- Conducted sampling and analysis of 30+ potable water fixtures for NYS Certificate of Occupancy parameters at the corporate headquarters of a major New York Metro area utility provider. Compared analytical results to the NYSDOH Maximum Contaminant Levels with guidance provided for mitigation responses.



Thomas Ancilleri

Environmental Technician

Mr. Ancilleri's responsibilities include performing commercial and residential property assessments and investigations for environmental hazards, including but not limited to mold and asbestos, and completing mold assessment projects such as development of site-specific remediation plans with a focus on the needs of the insurance industry and performing project monitoring and air sampling during asbestos abatement projects.

Selected project experience:

- Performed mold and water damage assessments including air sampling, moisture readings for mold, and interpreting the information to create a mold remediation report for contractors to follow during a mold abatement.
- Performed indoor air quality assessments in commercial and industrial settings to assist with indoor air quality complaints or investigations.
- Conducted bulk asbestos inspection surveys, project monitoring, and air sampling for multiple residential projects.
- Identified and assessed asbestos containing materials by visual inspection, collecting bulk samples of suspect materials, submitting to certified laboratories, and interpreting the resultant analytical data.
- Visually inspected, identified, and reassessed areas of friable and non-friable, suspect asbestos containing materials (ACM) within school buildings according to the Asbestos Hazard Emergency Response Act (AHERA).

Experience

H2M
EMSL Analytical, Inc.
Brookhaven Wildlife & Ecology Center

Education

B.A, Environmental Studies; Stony Brook University

Licenses/Certifications

NYS DOL Asbestos Air Sampling Technician
NYS DOL Asbestos Project Monitor
NYS DOL Asbestos Inspector
NYS DOL Mold Assessor
OSHA 40-hour HAZWOPER
OSHA 10-hour Construction Safety
PCM NIOSH 7400 Method Certified
EPA: NPDES Training Certification



Frank Acciarito

Environmental Technician

Mr. Acciarito's responsibilities include performing project monitoring and air sampling during asbestos abatements, performing commercial and residential property assessments and investigations for environmental hazards. Investigations include, but are not limited to mold, asbestos, and completing mold inspection projects including development of site-specific remediation plans with a focus on the needs of the insurance industry.

Selected project experience:

- Conducted bulk asbestos inspection surveys, project monitoring, and air sampling for multiple residential projects.
- Identified and assessed asbestos containing materials by visual inspection, collecting bulk samples of suspect materials, submitting to certified laboratories, and interpreting the resultant analytical data.
- Visually inspected, identified, and reassessed areas of friable and non-friable, suspect asbestos containing materials (ACM) within school buildings according to the Asbestos Hazard Emergency Response Act (AHERA).

Experience

H2M
 Adelphi University
 Lab Safety and Waste Management
 Office
 Vivant Solar

Education

B.S., Environmental Studies; Adelphi
 University

Licenses/Certifications

NYS DOL Asbestos Air Sampling
 Technician
 NYS DOL Asbestos Project Monitor
 NYS DOL Asbestos Inspector
 NYS DOL Mold Assessor
 OSHA 40-hour HAZWOPER
 OSHA 10-hour Construction Safety
 OSHA 10-hour General Industry Safety



Experience

H2M
EMSL Analytical, Inc.

Education

B.S., Geology, Stony Brook University
B.A., Earth and Space Science, Stony Brook University

Licenses/Certifications

40-Hour HAZWOPER
OSHA 10 Hour Construction Program
NYS Mold Assessor
EPA Lead Inspector
Wetland Delineation Certificate,
Rutgers University

Ashley N. Hastings

Staff Scientist

Ms. Hastings is a staff scientist in the field of environmental services. Her responsibilities include spill related response and investigation; soil, air, wastewater, and groundwater sampling, CAMP monitoring, Phase I environmental site assessments, and environmental remediation oversight and monitoring. Ms. Hastings is proficient with various field instrumentation including photo ionization detectors, water quality meters, oil/water interface probes, peristaltic and submersible pumping systems, and dust monitoring devices.

Selected project experience:

- Performed monitoring and remediation of several dielectric cable fluid spills.
- Implementation of Community Air Monitoring Programs (CAMPs) for multiple projects.
- Performed Phase I Environmental Site Assessments for various residential, commercial, and industrial properties located throughout Long Island and New York City.
- Conducted waste water sampling at multiple power plant and pharmaceutical companies.
- Performed State Pollutant Discharge Elimination System (SPDES) sampling for power plant facilities.
- Performed sampling of 30+ fixtures within the corporate headquarters of a major utility provider within the New York Metro area. Samples were analyzed for New York Certificate of Occupancy parameters and compared to NYSDOH MCLs.
- Performed sample of potable water fixtures within school district facilities to monitor and evaluate for the presence of lead in drinking water. Performed sampling consistent with EPA and NYSDOH guidance documents.
- Conducted carbon monoxide evaluations, on emergency notice, within a school district's 11 school district buildings. The evaluation included the measurement of over 300+ locations, and included overnight evaluations at select locations to evaluate the HVAC system as a potential contributor to carbon monoxide within the site buildings.

Prior to joining H2M, Ms. Hastings worked as a laboratory analyst, conducting analytical testing for asbestos in environmental samples using Phase Contrast Microscopy (PCM) and Transmission Electron Microscopy (TEM).



Experience

H2M

Education

B.S., Science Technology and Society;
Farmingdale State College

Licenses/Certifications

NYSDOL Asbestos Inspector

Michael J. Schmitz

Environmental Technician

Mr. Schmitz's responsibilities include identifying and assessing the condition of asbestos, taking bulk samples, and recording and reporting on laboratory analysis. Mr. Schmitz works in the insurance, education, water, and fire industries; as well as with private and public building representatives.

Selected project experience prior to H2M:

- Asbestos Inspector: Identifies and assesses the condition of asbestos, takes bulk samples, and records and reports on laboratory analysis.
- Participated in NYSDOL asbestos inspection for SUNY Farmingdale, as a part of an ongoing renovation project.
- Participated in NYSDOL asbestos inspection for insurance companies in support of water loss and fire claims.
- Reviewed AHERA tables and surveillance observations with hazard identification for Locust Valley School District.



Experience

H2M

Sailors Engineering Associates, Inc.

Education

B.S., Civil Engineering, Clemson University

Licenses/Certifications

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

John R. Collins, P.E., LEED AP

Deputy Department Manager – Water Resources

Mr. Collins' experience in water distribution includes numerous projects involving the extension of transmission and distribution mains for potable and raw water as well as projects including the replacement of aging infrastructure. Projects include the design and oversight of new mains to service previously unincorporated areas or to provide a solution to specific pressure and flow deficiencies. As a senior project engineer, he has developed engineering reports evaluating the effects new development has upon existing water systems and determines how best to provide public water to these developments. Specific responsibilities also include the design, layout, cost estimating and construction management of public and private water distribution systems.

Selected project experience:

- Manhasset Lakeville Water District: Installation of Sanitary Sewer Main, Manhasset NY. Design and construction oversight of 1,000 feet of new sanitary sewer force main along Searingtown Road to provide process waste connection from Searingtown Road Water Treatment Plant.
- Bethpage & Hicksville Water Districts: Installation of Sanitary Sewer Main, Bethpage & Hicksville NY. Design and construction oversight of new sanitary sewer gravity mains to provide process waste connection from Adams Avenue and Bethpage Road Water Treatment Plants.
- Hampton Bays Water District: Installation of Transmission Main/Hampton Bays, New York. Design of 16,000 feet of 12" cement-lined ductile iron water main within existing roadways to increase fire flow and pressure in the southerly portion of the District. Design included a 600 foot directional bore beneath an existing railroad crossing utilizing 16" HDPE pipe.
- Riverhead Water District: Boundary and Lateral Main Extensions/Riverhead, New York. Permitted, designed and oversaw the installation of over 30 miles of water distribution and transmission main ranging in size from 6" to 16" diameter and 225 hydrant assemblies to provide service to new development.
- Manhasset-Lakeville Water District: Elm Sea Area Transmission Main/Plandome, New York. Design of 10,700 feet of 12" water main ductile iron water main to replace undersized and aged infrastructure, including two directional bores of 16" HDPE pipe beneath drainage culverts to service an isolated area of the District experiencing low flow and pressure conditions. Roles included permitting, design and construction oversight.
- Bethpage Water District: Cherry Avenue Transmission Main/Bethpage, New York. Design of 3,600 feet of 20" cement-lined ductile iron water main within an existing County roadway to transmit water from source to storage.
- Town of Greenburgh: Replacement of Asbestos Mains on Greenvale Circle/White Plains, New York. Design of 2,000 feet of new 8" cement-lined ductile iron water main to replace an existing asbestos cement main including provisions for transfer of services and hydrants.
- South Huntington Water District: The Greens at Half Hollow/Melville, New York Design and construction oversight of 44,300 feet of ductile iron water main, including a directional bore of 850 feet of 16" HDPE pipe and 60 hydrant assemblies to provide potable water service and fire protection to the Greens at Half Hollow residential development.
- Hicksville Water District: Capital Improvement project for the replacement of 22,000 feet of outdated infrastructure in a residential area which had reached the end of it's useful life with new facilities. Roles included analysis of existing infrastructure, temporary water facilities coordination with permitting agencies and construction oversight.



John R. Collins, P.E., LEED AP

Selected project experience:

- Oyster Bay Water District: Laurel Cove Extension/Oyster Bay, New York. Design of 18,500 feet of 8" and 12" cement-lined ductile iron water main within existing Village roads to provide potable water service and fire protection to a previously disenfranchised residential area.

Prior to H2M, Mr. Collins managed subsurface field investigations and laboratory data in order to provide conclusions and recommendations regarding subsurface conditions; inspection services on all phases of site development installation and inspection of utility projects including water, telephone, electric and sewer facilities; trenchless construction, including pipe jacking and directional drilling projects.



Experience

H2M

Education

B.S., Civil & Environmental Engineering, Villanova University

Licenses/Certifications

Professional Engineer: NY
Project Management Training Program, H2M

Memberships

American Society of Civil Engineers

Dustin J. Rigos, P.E.

Project Engineer - Water Resources

Mr. Rigos' experience in water resources engineering includes the design and construction administration of potable water treatment systems, rehabilitation of supply wells, and distribution system improvement projects. He is responsible for the preparation of specifications and design plans. He is proficient in the use of 2D/3D CAD software.

Selected project experience:

- Bethpage Water District: Wellhead Treatment for the Removal of VOC's at Plant 6. Assisted in the design of a 4-vessel granular activated carbon filtration system for VOC removal at 4.0 MGD plant, including site piping and modifications to existing chemical treatment system. Tasks on this project included the preparation of design plans, coordination with client and contractors, and construction administration.
- Water Authority of Western Nassau County: Wellhead Treatment for the Removal of Iron at Plants 28 and 30. Assisted in the design of two iron removal systems for a 1.7 MGD and 3.7 MGD plant; mechanical piping, site distribution piping; decant tanks; chemical treatment systems for disinfection and pH control; and well rehabilitation. Tasks on this project included the preparation of design documents, design coordination, construction administration and inspection.
- New York State Office of General Services: D.E. Filtration System for Bedford Hills Correctional Facility. Preparation of design plans and specifications for a portable D.E. filtration system with capacity of 1.4 MGD. Assisted in design of backwash containment system, sanitary force main, and site piping. Conducted design coordination and construction administration.
- Manhasset-Lakeville Water District: Wellhead Treatment for the Removal of Nitrates at Searingtown Road Plant. Preparation of well rehabilitation and site piping design plans associated with the construction of an ion exchange nitrate removal system for 3.5 MGD plant including six-vessel system with recycle and waste systems. Conducted construction administration, including shop drawing review, construction progress meetings, and inspection.
- Long Island American Water: Water Main Replacement via Directional Drilling under Reynolds Channel. Preparation of design plans and specifications for the installation of approximately 3,200 LF of new 20" HDPE transmission main under the Reynolds Channel via directional drilling. Prepared regulatory approval submissions and conducted construction administration.



Experience
H2M

Education
B.S., Chemical Engineering, Manhattan College

Licenses/Certifications
Engineer-In-Training: NY
Project Management Training Program, H2M

Andrew M. Manfredi, E.I.T.

Project Engineer - Water Resources

Mr. Manfredi's responsibilities include preparing specifications and design plans for the purpose of bidding public works water projects and regulatory agency review. He has designed projects utilizing advanced oxidation process (AOP) and granular activated carbon (GAC) for 1,4-dioxane and VOC removal. He has also performed a multitude of pilot studies on AOP treatment technologies. Mr. Manfredi has also presented on various AOP subject matters at the New York State AWWA, New Jersey AWWA, and national AWWA conferences. Other project experience includes rehabilitation and construction of existing and new elevated storage tank. In addition to his AOP experience, 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. This project is currently the only full scale AOP treatment system utilized in Nassau County for potable drinking water and was awarded an ACEC New York Platinum Award in 2019.
- Various Water Districts - Low Pressure UV/H2O2 AOP Pilot Studies: In-house design of a 20 GPM pilot study utilizing low pressure UV/H2O2 AOP treatment as required by the New York State Department of Health for all new AOP treatment systems. Pilot study included the review of background water quality, creation of a sampling protocol and testing matrix for submission to the State and local departments of health, in-field analytical testing, and analysis of laboratory and field testing results for a final report to submit to the regulatory agencies with the engineering report. Water District's that were tested as part of this pilot program included South Huntington, NY; Bethpage, NY; Plainview, NY; Hicksville, NY; West Hempstead, NY; Manhasset-Lakeville, NY; South Farmingdale, NY; Inc. Village of Garden City, NY; Roslyn, NY; Garden City Park, NY; and Franklin Square, NY.
- Plainview Water District - Medium Pressure UV/H2O2 AOP Pilot Study at Plant No. 3; Plainview, NY: In-house design of a 40 GPM pilot study utilizing medium-pressure UV/H2O2 and UV/CL2 AOP treatment. Pilot study included the review of background water quality, creation of a sampling protocol and testing matrix for 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.
- 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.
- South Huntington Water District - Granular Activated Carbon for Organics Removal at Plant No. 7; South Huntington, NY: In-house design of a new 4.0 MGD ground water supply station. Design included accurate modeling of new building, creation of custom building and mechanical content, clash detection, foundation penetration schedule, central file management for electrical, HVAC, and architectural division support; creation of NavisWorks model walk-through for QA/QC and client review.



Steven L. Mirra, P.E.

Project Engineer - Water Resources

As a project engineer with more than four years of experience, Mr. Mirra's responsibilities include the preparation of specifications and design plans for the bidding and construction of Public Works projects including projects for water supply, treatment, transmission, and storage. Mr. Mirra's experience in water resources includes groundwater well rehabilitation and permit applications; potable water treatment technologies including granular activated carbon and air stripping for volatile organic chemical removal, and pH adjustment and disinfection; water distribution design and hydraulic calculations; and construction administration of the aforementioned projects. Additionally, Mr. Mirra has experience in pool design including hydraulic calculations for sizing associated pool pumps, piping, and mechanical equipment.

Experience

H2M
AMA Consulting Engineers, P.C.

Education

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

Licenses/Certifications

Professional Engineer: NY
NYCDDC Inspection Training

Memberships

Engineers for a Sustainable World
American Water Works Association
Long Island Water Conference
Long Island Water Conference, Young Professionals

Selected project experience:

- Locust Valley Water District, VOC Removal Engineering Report: Researched and prepared engineering design report for VOC removal for 1.7 MGD Plant No. 6 in Locust Valley for submission and approval from the Nassau County Department of Health.
- Roslyn Water District, Wellhead treatment for the removal of VOCs at Plant No. 8. Assisted in design of VOC removal system for a 1.7 MGD plant including a new packed tower aeration system; transfer pumps; associated mechanical piping; incorporation with existing GAC treatment facility; well rehabilitation; replacement of chemical treatment system; new metering system; preparation of treatment report and design calculations; permit applications; coordination with client and vendors; construction administration for a Wick's law multiple prime contractor project.
- Roslyn Water District, Rehabilitation of Well No. 6. Design of the rehabilitation of a 1.7 MGD water supply well. Design included new well pump, raising of well base, all new discharge and blow-off piping and control valves.
- Riverhead Water District, Water Main Extension: Performed topological survey, created site plan for design work, prepared design plans and specifications for the installation of new CLDI water main on Middle Country Road in Riverhead.
- Roslyn Water District, Wellhead treatment for the removal of VOCs at Plant No. 1. Assisted in design of VOC removal system for a 1.7 MGD plant including granular activated carbon (GAC) adsorbers and associated mechanical piping; automated well blow-off, preparation of treatment report and design calculations; permit applications; coordination with client and vendors; construction administration.
- New York American Water, Water Main Replacement: Performed topographical survey, created site plan for design work, and prepared design plans and specifications for the installation of new CLDI water main to replace the existing main on Home Street in Malverne.
- Roslyn Water District, Rehabilitation of Tara Drive 2.0 MG Standpipe: Prepared design specifications and drawings for the exterior and interior repair and painting of the 2.0 MG Standpipe; construction administration.
- Greenlawn Water District, Installation of Water Mains: Provided construction administration and inspection services for the installation of approximately 3,000 linear feet of CLDI water main within the Harborfield Estates Development in Greenlawn.
- New York American Water, Water Main Replacement: Performed topological survey, created site plan for design work, prepared design plans and specifications for the installation of new CLDI water main to replace the existing main on Helen Court in Merrick.
- Oyster Bay Water District, Water Main Extension: Performed topological survey, created site plan for design work, prepared design plans and specifications and provided construction administration and inspection services for the installation of approximately 1,250 linear feet of CLDI water main on Glen Cove Road in Oyster Bay.



Steven L. Mirra, P.E.

Selected project experience, continued

- Plainview Water District, Relocation of Transmission Main: Performed topological survey, created site plan for design work, prepared design plans and specifications for the installation of new CLDI transmission main to replace the existing transmission main within the proposed Country Pointe at Plainview Development in Plainview.
- Manhasset-Lakeville Water District, Water Main Replacement: Performed topological survey, created site plan for design work, prepared design plans and specifications and provided construction administration and inspection services for the installation of approximately 2,700 linear feet of CLDI water main to replace the existing water mains on Summit Drive and Grandview Circle in Manhasset.
- Town of Brookhaven, Holtsville Pool Spray Feature: Assisted in the design of new spray features at the Holtsville Public Wading Pool, including hydraulic calculations for sizing associated pumps and piping.
- Farmingdale School District, Howitt Middle School Aquatic Center: Assisted in the design of 336,240 gallon competition pool and 50,235 gallon public pool, including hydraulic calculations for sizing associated pumps, piping, and mechanical equipment.



Experience

H2M
NYS DOT

Education

B.S., Chemical Engineering, Manhattan College

Memberships

American Institute of Chemical Engineering

Christopher T. Weber, EIT

Project Engineer - Water Resources

Mr. Weber is responsible for design and construction administration tasks associated with the construction of water supply and treatment facilities and distribution system improvement projects. He is involved in the preparation of specifications and design plans, project bidding, shop drawing, O&M, and payment request review. He is also proficient in the use of CAD and REVIT software.

Selected project experience:

- VOC Treatment Upgrades, Garden City Park. Assisted in the design of a 2-vessel granular activated carbon filtration system for VOC removal at Plant No. 6, including site piping and modifications to existing chemical treatment system. Tasks included the preparation of the engineering report, preliminary design and calculations, and preparation of design plans and specifications.
- Water Main Replacement, Manhasset-Lakeville Water District. Performed topographical survey, created site plan for design work, and prepared design plans and specification for the installation of approximately 700 linear feet of new 8-inch CLDI water main to replace the existing 6-inch main on Executive Drive including an interconnection to the Garden City Park Water District.
- VOC Treatment, South Farmingdale Water District. Assisted with construction administrative tasks at Plant No. 3 while project was in construction. Tasks included preparation of design modifications for regulatory approval, recoding construction meetings, review of shop drawings, O&M's and payment requests, and assisting in startup of the facility.
- New York City Department of Environmental Protection (DEP). Assisted in preliminary site design for facilities at existing DEP sites. Created site plans and assisted in design modifications for sites to be modified during DEP project.
- Water Main Installation, Plainview Water District. Prepared design plans for the installation of approximately 400 linear feet of new water main on Pal Street.
- Plainview Water District. Assisted in study of Well 5-1 soil infiltration and preparation of design plans for the redrill of Well 5-1 at PLWD Plant No. 5.
- Drainage Basin Modifications, Plainview Water District. Assisted in design and bidding for the installation of 10 sand wicks to improve basin drainage at Plant No. 5.

Prior to H2M, Mr. Weber managed various projects for the New York State Department of Transportation. Some of which included the Intelligent Transportation Systems repair and installation on the Bronx River Parkway and Hutchinson River Expressway; paving operations on the Bruckner, Major Deegan, West Shore and Brooklyn-Queens Expressways; construction of new parks for Starlight Park and Greenway in West Farms, Bronx, NY; and steel repair for the Brooklyn, Queens and Manhattan Bridges.

Water Testing for Lead

Clients

Baldwin Union Free School District
Farmingdale Public Schools
Kings Park Central School District
Locust Valley Central School District
Mount Sinai Union Free School District
South Huntington Union Free School District

Completion

2016 and 2020

SERVICES PROVIDED

Contaminant Fate and Transport
Facility Auditing
Regulatory Compliance
Routine Monitoring
Industrial Hygiene
Mold, Asbestos, and Lead

H2M conducted testing of all potable outlets across numerous school district's buildings to comply with the 2016 New York State Department of Health (NYSDOH) regulations: "Lead Testing in School Drinking Water (10 NYCRR Subpart 64-7, effective September 6, 2016)."

To meet the requirement that all potable outlets be tested by year end 2016, H2M quickly mobilized on behalf of our school district clients to conduct sampling within 42 school buildings among six districts.

Prior to the mobilization of sampling technicians to the various schools, H2M developed comprehensive potable outlet sampling plans for each district. Utilizing each district's available site plans, H2M identified the various bubblers, fountains, faucets, spigots, and other fixtures deemed to be potential drinking water sources. These outlets were marked and denoted within the plans as requiring a first-draw sample.

Consistent with NYSDOH testing requirements, H2M conducted all sampling after the minimum stagnation period of eight hours. To reduce the costs associated with remobilization, H2M generally collected an additional flush draw sample to assess upstream water sources within the piping distribution system. Flush draw samples were only analyzed in the event of an exceedance above the NYSDOH Action Level of 15 parts per billion (ppb). After analysis of samples and following an identification of lead exceedances, H2M mapped the concentrations relative to the upgradient and downgradient outlets creating a lead profile for each school and the piping distribution system.

To minimize any impact to districts and school operations and after following for the minimum stagnation period, our sampling teams mobilized to the school buildings to conduct sampling. Generally, the sampling started at 4 a.m. and was finished by 7 a.m. within each school. From time to time, districts would have concerns about the interpretation of the NYSDOH regulations and the impact on their schools. H2M would contact the NYSDOH to discuss specific variances and differences in typical sampling protocols for their guidance. With the re-instituted 2020 sampling requirements, H2M has been in communication with the NYSDOH's lead water experts to discuss sampling needs and requirements. H2M maintains effective relationships with NYSDOH personnel ensuring that client's needs and desired outcomes are both heard and granted, when appropriate.

Ultimately, the 2016 sampling program was performed without any negative impact on client operations. The 2020 sampling initiative is currently underway. However, the COVID-19 pandemic has delayed the sampling for H2M's clients.

After sampling any potable outlets that were deemed to contain lead concentrations in excess of NYSDOH regulatory guidelines, lead containing fixtures were removed from service and replaced with certified lead free fixtures. In some cases, as an interim measure, flushing was performed to reduce lead concentration below NYSDOH regulatory guidelines. Subsequent testing and analysis of the newly installed outlets has indicated that the fixtures will not contribute to a potential lead in water exposure.

As the NY Metro areas dominant water and environmental engineering experts, we have been bringing creative and cost effective solutions to meet regulatory challenges. Unlike most of our competition, we have water supply and distribution engineers in-house to quickly and effectively address any clients needs.



Assessing for Lead in Water

Client

Confidential Suffolk
County School

Contact

John Hustedt
Director of Facilities
(631) 300-0122

Completion

2018

SERVICES PROVIDED

Water and Wastewater
Treatment
Facility Auditing and
Regulatory Compliance
Routine Monitoring
and Inspections
Industrial Hygiene
Mold, Asbestos, and Lead



On behalf of a Suffolk County School District, H2M was called upon to conduct sampling and analysis from potable water fixtures to assess for the presence of lead within drinking water fixtures and the associated plumbing.

H2M conducted the testing of more than 50 potable fixtures within seven District buildings in conformance with New York State Department of Health (NYSDOH) Regulations titled, "Lead Testing in School Drinking Water," (10 NYCRR, Subpart 64-7, effective September 6, 2016). Testing was performed on all fixtures which previously exceeded the NYSDOH action level of 15 mcg/L (parts per billion).

As per NYSDOH regulations, in order to properly assess for lead in any fixtures or plumbing systems, testing must be performed on water that has remained motionless. This required careful timing and planning for both the District and H2M, as neither party wanted to interrupt the normal school day. The District worked with their staff to provide an eight hour building shutdown period in preparation for H2M to collect and analyze samples. After the shutdown, H2M dispersed their team of specialists to District buildings to conduct their proper analysis, all prior to the building's opening for school.

Making sure that the testing was completed between the narrow time frame of 4:00 a.m. and 7:00 a.m., required H2M to coordinate necessary resources to sample dozens of fixtures without any impact to school operations, while also still complying with NYSDOH regulations.

Upon completion of testing, H2M remained on schedule and within budget; and was able to exclude the majority of fixtures from any remedial or mitigation efforts.



Potable Water Testing and Tank Inspection

Client

Consolidated Edison
New York, NY

Project Fee

\$52,000

Contact

Joseph Moawad
Section Manager
(718) 204-4150

Completion

2020

Subconsultants/ Subcontractors

Pace Analytical

SERVICES PROVIDED

Emergency Response

Potable Water Quality

Potable Water System Tank
Inspection

Regulatory Compliance

Technical Memorandum with
Recommendation



In late December 2018, Consolidated Edison staff noted the presence of discolored water from a faucet at their corporate headquarters. In response to this emergency, H2M mobilized within three hours of notice with the appropriate bottlere and sampling equipment to assess potable water office-wide.

Samples were analyzed for numerous water quality parameters including, but not limited to, volatile organic compounds, metals, hardness, alkalinity, total coliform, turbidity, pH, color, Threshold Odor Number, MBAS Surfactants, nitrogen, and trihalomethanes. Results were tabulated and compared to the New York State Department of Health Maximum Contaminant Levels.

Based on the data and obtained site history, H2M determined that the recent plumbing and the pressurization of the plumbing system work resulted in the release of scale from the plumbing fixtures. H2M prepared a technical memorandum recommended that facility personnel conduct low-velocity flushing of the piping system, fixtures, and faucets followed by subsequent flushing.

In addition to the 2018 potable water diagnosis services, as recently as February 2020, H2M has been tasked to conduct inspections of four potable water tanks within the corporate headquarters to comply with newly-enacted New York City regulations required by the New York City Department of Health and Mental Hygiene. H2M engineers and NACE-certified tank inspectors will assess the tank interiors and exteriors for unsanitary conditions and collect water samples from the potable water storage tanks for total coliform and *E. coli*. On completion, all results will be posted to the New York State Department of Health portal.

Water Supply Development

Client

South Huntington
Water District
Huntington Station, NY

Contact

Kevin J. Carroll
Superintendent
(631) 427-8190

Construction Cost

\$2.5 million

Completion

2018

SERVICES
PROVIDED

Electrical Engineering,
Structural Engineering,
Civil Engineering, Soil
Borings, HVAC



H2M had the responsibility of locating and developing a new public supply well to offset the increased demand on the water supply system from a new proposed housing development.

A new proposed housing development within the boundaries of the South Huntington Water District increased the demand on the water supply system. Thus, H2M had to locate and develop a new public supply well to offset the increased demand.

After the 2.25 acre site was acquired from the Villages Development Corp. in 2004, the District authorized H2M to prepare the engineering report and well permit application for a new potable supply well. In 2004, with an approved well permit, H2M began to design and prepare construction documents for a fully automated supply facility.

The scope of work included in the three contracts associated with this project consisted of: the construction of a new 4,000+ square

foot masonry well house and treatment building; construction of a new 600 foot deep potable supply well with a capacity of 1.98 MG per day; installation of site piping; installation of PLC based controls and instrumentation; installation of motor control center and power distribution; installation of chemical storage and feed systems.

H2M also administered the project through construction, which included on-site inspection, contractor and owner coordination, shop drawing review, and preparation of contractor payment applications. Upon completion, H2M provided the required completed works certifications to the Suffolk County Department of Health Services.



References

H2M has a strong record of performance on educational and water quality testing contracts. We encourage you to contact the references below and on the following pages to verify our successful track record. Detailed project descriptions are included at the end of Tab 2.

Agency: Baldwin Union Free School District

Name and Location of Project: Lead in Water District Wide Sampling Event - Within multiple school buildings and administration offices Baldwin, NY

Start and Completion Dates: June 2016/November 2016

Contact Name and Telephone Number: Mr. Russ Randazzo, Director of Facilities, (516) 377-9312

Contract Amount: \$29,432

Services Provided: Sampling and analysis of potable outlets for lead in water within 10 buildings, generation of a remedial action plan, and additional sampling and analysis to assess mitigation efforts.

Agency: Mount Sinai School District

Name and Location of Project: Lead in Water District Wide Sampling Event - Within multiple school buildings and administration offices Mt. Sinai, NY

Start and Completion Dates: May 2016/November 2016

Contact Name and Telephone Number: Ms. Linda Parlante, Facilities Department, (631) 870-2845

Contract Amount: \$19,140

Services Provided: Sampling and analysis of potable outlets for lead in water within district buildings, liason services with local and NYSDOH, generation of a remedial action plan and the submission of reports documenting sampling efforts.

Agency: Farmingdale Union Free School District

Name and Location of Project: Lead in Water District Wide Sampling Event - Within multiple school buildings and administration offices Farmingdale, NY

Start and Completion Dates: July 2016/November 2016

Contact Name and Telephone Number: Mr. Nelson Dominguez, Director of School Facilities and Operations, (516) 752-6545

Contract Amount: \$21,821

Services Provided: Sampling and analysis of potable outlets for lead in water within seven district buildings, liason services with local and NYSDOH, generation of a remedial action plan, and additional sampling and analysis to assess mitigation efforts, with the submission of reports documenting sampling efforts.



Project Approach

As the leading expert in water system design, distribution, and environmental engineering, we have decades of experience designing building water sampling plans. Since the firm’s inception in 1933, we have been providing engineering support to water districts and the surrounding communities. In fact, H2M’s first client, Bethpage Water District, remains a client to this day. Also, one of H2M’s founding partners, Normal Murrell, collaborated with and provided invaluable research to the USEPA with regards to the sources of lead in drinking water. A copy of the joint publication between H2M (formerly known as H2M Group) and the USEPA is available at www.epa.gov.

While our services have expanded to include all facets of engineering and architectural design, we remain the “water experts” providing valuable support on projects, including but not limited to:

- National priority list sites – superfund sites
- Inactive hazardous waste sites
- Municipal and private water districts
- Sewer districts
- School districts
- Private corporations

► Sampling Plans

For this specific opportunity, H2M intends to mobilize to school and district buildings after the minimum stagnation period has been met. To comply with NYSDOH guidance, all sampling of each district building will be completed before students and faculty begin common water usage. Generally, this means that staff must be finished collecting water samples before the first student enters the building (conservative estimate by 7am). We have incorporated this NYSDOH requirement into our proposal, and thus, there are is a dedicated professional mobilizing to each District building to finish sampling by 7am. H2M will coordinate with facilities or other assigned contacts for all sampling events and maintain open and effective lines of communication.

For the purposes of bidding on this opportunity, a dedicated team member will collect samples within each school between 4am to about 7am. Samples will be submitted on a standard five to seven day turn around time. Our staff will have completed sampling the potable outlets within two weeks of commencing work.

As detailed earlier, in 2016, H2M developed a comprehensive potable water sampling program for various districts to conform with 10 NYCRR Subpart 67-4 sampling requirements. The program incorporated the evaluation of first draw samples and flush draw samples after minimum purging requirements. First draw samples were demonstrative of localized fixtures and outlet conditions, for potential lead containing fixtures. Lead concentrations within flush draw samples were indicative of conditions location upstream of the sampled fixture/outlet. Considering a city-wide orthophosphate treatment system was implement, the leaching of lead into potable water is effectively reduced. Thus, it is reasonable to assume around 300 outlets, or less, will need to be replaced and re-tested. For the purposes of this proposal and to reduce costs, our proposal includes only the retesting of 300 outlets, with oversight services as requested.

Why Choose H2M?

What sets H2M apart and why should we be selected for this assignment?

We are a full-service A/E firm with all disciplines under one roof with one source responsibility

We have constant communication throughout; we design according to clients’ needs and expectations

Our team has extensive experience in the education market and staff who are passionate about their fields of expertise and enjoy serving our clients

We are an 87-year old firm, dedicated to our community and legacy

Unmatched depth of professional staff specialized in water resources design, permitting, and construction

Concurrent with the sampling and analysis tasks, H2M utilized Districts' AutoCAD drawings and plans to assist in the evaluation of the drinking water system within each school. Prior to sampling, the location of potable outlets and the design of the water distribution system was examined. After analysis of samples and following an identification of lead exceedances, H2M mapped the exceedances relative to the upgradient and downgradient outlets creating a lead profile for each school. That lead profile was used to determine if the concentrations, especially in the case of exceedances above the Action Level of 15 ppb, were attributable to localized plumbing fixtures or indicative of a systemic and widespread problem (e.g., corrosive water in lead containing service lines, lead solder, etc).

► Laboratory Services

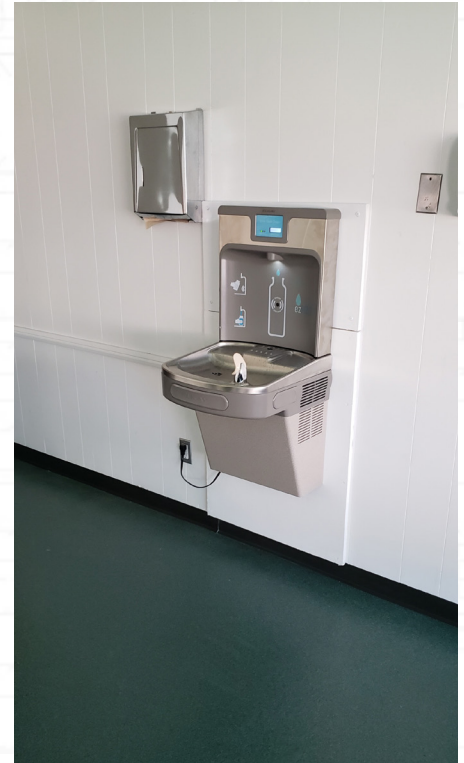
Whenever performing environmental analysis, H2M only utilizes ELAP-certified laboratories. For this opportunity, H2M will utilize (York Analytical Laboratories, Inc.) for the analysis of lead using USEPA Method 200.8. Copies of York Analytical Laboratories, Inc.'s ELAP and method certifications are attached.

► Project Manager

H2M is appointing Martha Mihaltses as the Project Manager for this project with the City of Yonkers. As an environmental consultant and geologist with 13+ years of experience, she is well positioned to provide the lead in water testing initiative on behalf of the City. Ms. Mihaltses has managed numerous other environmental projects, some with routine schedules with little deviation, but by far her strength is in her ability to remain organized and steadfast during projects with dynamic schedules. Her recent and notable project management experience includes:

- Lead in water sampling and analysis – Mt. Sinai School District – 2020 (on hold due to COVID-19 pandemic)
- Major Oil Storage Facilities, Petroleum Bulk Storage Requirements for annual groundwater sampling and analysis - March & April 2020
- Multi-Sector General Permits – Monthly Discharge Monitoring Reports and inspections – United Parcel Service – February 2020 to present
- Environmental investigations and spill response services for 50+ petroleum discharges, annually – August 2006 through present

About 50% of Ms. Mihaltses client's and project sites are located within Westchester County and the surrounding area. As a Project Manager with diverse technical and people manager skills, she is well positioned to manage the environmental services on behalf of the City of Yonkers. She routinely coordinates for emergency services on behalf of client's responding within 24 hours of client requests. In her career, she has provided oversight, varied construction management and payment administration services for an estimated \$19.5 million dollars of construction. Ms. Mihaltses and her team are the logical choice for sampling, analysis and oversight services necessary for successful completion of this project.



Fee Proposal

As requested in the RFP, the fee proposal is attached in a separately sealed envelope.



City of Yonkers/Yonkers Public Schools
 One Larkin Center – 3rd Floor
 Yonkers, New York 10701
 (914) 377-6930
 Fax: (914) 377-6032
 Email: debra.censi@yonkersny.gov

CITY OF YONKERS
Purchasing

Mike Spano, Mayor
Tom Collich, Director

TO: PROSPECTIVE PROPOSERS

ADDENDUM NO. 1: (1) PAGE

DATE: 4/8/2020

FROM: Debra Censi, Purchasing Department

RE: RFP-423: 2020 LEAD TESTING IN SCHOOL DRINKING WATER

ADDENDUM No. 1: INFORMATION and Electronic Bid Submission

The contents of this addendum alter and amend the RFP requirements and take precedence over the related items therein. This addendum forms a part of the contract documents. Vendors must acknowledge receipt of all addenda when submitting their RFPs. Failure to acknowledge receipt may render your RFP non-responsive and ineligible for award. Vendors are responsible for ensuring that they receive all addenda. All addenda will be posted on the Empire State Purchasing Group System (<http://www.empirestatebidsystem.com/>).

PLEASE NOTE THE FOLLOWING:

1- RFP- 423 has been cancelled – **THE NEW Solicitation Number is now RFP-423A to allow for proposals to be submitted electronically. The solicitation documents can be found under RFP-423A.**

2- The **new RFP due date is NOW scheduled for WEDNESDAY, April 29, 2020 at 2:00 p.m.**

3- SUBMISSION METHODS:

The City of Yonkers will allow proposals to be submitted via electronic delivery method **thru the Empire State Purchasing Group System – BidNet (<http://www.empirestatebidsystem.com/>).** Refer to solicitation **RFP-423A: 2020 LEAD TESTING IN SCHOOL DRINKING WATER.**

File capacity may not exceed 500mb. For any issues requiring technical support vendors shall contact BidNet at 1-800-835-4630. The City will not be responsible for submission delays or other unforeseen circumstances related to Proposer’s submitting its proposal electronically.

Proposers shall prepare (2) files for submission:

RFP-423A: 2020 LEAD TESTING IN SCHOOL DRINKING WATER: one marked **Proposal** the other marked **Pricing, both with your company name.** Electronic signatures and/or scanned signatures from Proposers’ authorized representatives will be acceptable.


RFP-423: ADDENDUM No. 1– ACKNOWLEDGEMENT – Return this document with your sealed RFP.

Proposing Firm: H2M architects + engineers

Address: 538 Broad Hollow Rd, 4th Floor East, Melville, NY 11747

Proposer’s Representative: Paul R. Lageraen, P.E., P.G. **Title:** Vice President

E-mail: plageraen@h2m.com

Signature 

Date: 4/28/2020



City of Yonkers/Yonkers Public Schools
 One Larkin Center – 3rd Floor
 Yonkers, New York 10701
 (914) 377-6930
 Fax: (914) 377-6032
 Email: debra.censi@yonkersny.gov

CITY OF YONKERS
Purchasing

Mike Spano, Mayor
Tom Collich, Director

TO: PROSPECTIVE PROPOSERS (1) PAGE

DATE: 4/20/2020

FROM: Debra Censi, Purchasing Department

RE: RFP-423A: 2020 LEAD TESTING IN SCHOOL DRINKING WATER

ADDENDUM No. 2: INFORMATION – Clarification

The contents of this addendum alter and amend the RFP requirements and take precedence over the related items therein. This addendum forms a part of the contract documents. Vendors must acknowledge receipt of all addenda when submitting their RFPs. Failure to acknowledge receipt may render your RFP non-responsive and ineligible for award. Vendors are responsible for ensuring that they receive all addenda. All addenda will be posted on the Empire State Purchasing Group System (<http://www.empirestatebidsystem.com/>).

PLEASE NOTE THE FOLLOWING: Clarification

Clarification Response: Please note: Submitted electronically means the following:
 You will not directly email me you proposal/pricing. You will submit your documents directly thru BIDNET by using the Empire State Purchasing Group System – BidNet (<http://www.empirestatebidsystem.com/>).

Referencing page one of the RFP document which reads:

The City of Yonkers will allow proposals to be submitted via electronic delivery method thru the Empire State Purchasing Group System – BidNet (<http://www.empirestatebidsystem.com/>). Refer to solicitation **RFP-423A: 2020 LEAD TESTING IN SCHOOL DRINKING WATER.**

File capacity may not exceed 500mb. For any issues requiring technical support vendors shall contact BidNet at 1-800-835-4630. The City will not be responsible for submission delays or other unforeseen circumstances related to Proposer’s submitting its proposal electronically.

Proposers shall prepare (2) files for submission:
RFP-423A: 2020 LEAD TESTING IN SCHOOL DRINKING WATER: one marked **Proposal** the other marked **Pricing, both with your company name.** Electronic signatures and/or scanned signatures from Proposers’ authorized representatives will be acceptable.

Proposals received after 2:00 PM are late and will not be accepted.
Proposals will not be accepted via email.

The RFP due date remains April 29, 2020 at 2:00 PM.

RFP-423A: ADDENDUM No. 2 – ACKNOWLEDGEMENT – Return this document with your sealed RFP.

Proposing Firm: H2M architects + engineers

Address: 538 Broad Hollow Rd, 4th Floor, Melville NY 11747

Proposer’s Representative: Paul Lageraen, P.E., P.G. **Title:** Vice President

E-mail: plageraen@h2m.com **Signature:** **Date:** 4/28/2020



City of Yonkers/Yonkers Public Schools
One Larkin Center – 3rd Floor
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Email: debra.censi@yonkersny.gov

CITY OF YONKERS

Purchasing

Mike Spano, Mayor

Tom Collich, Director

TO: PROSPECTIVE PROPOSERS (2) PAGES

DATE: 4/24/2020

FROM: Debra Censi, Purchasing Department

RE: RFP-423A: 2020 LEAD TESTING IN SCHOOL DRINKING WATER

ADDENDUM No. 3: Final NFORMATION

The contents of this addendum alter and amend the RFP requirements and take precedence over the related items therein. This addendum forms a part of the contract documents. Vendors must acknowledge receipt of all addenda when submitting their RFPs. Failure to acknowledge receipt may render your RFP non-responsive and ineligible for award. Vendors are responsible for ensuring that they receive all addenda. All addenda will be posted on the Empire State Purchasing Group System (<http://www.empirestatebidsystem.com/>).

PLEASE NOTE THE FOLLOWING:
THE TIME FOR QUESTION SUBMITTALS HAS NOW PASSED.
The RFP due date remains April 29, 2020 at 2:00 PM.

Response to Questions received

1. Q: Under task 1.02 (page 13 of the RFP), will the selected firm be required to physically collect the samples, or just write the procedures, receive the samples and arrange/pay for laboratory analysis?

A: Yes, the firm will be expected to do the sampling.

2. Q: Under task 1.03 (page 13 of RFP) remediation of plumbing, will the selected firm be required to prepare contract documents to retain via public bidding the third party plumbing contractor?

A: Yes, the firm will be expected to prepare bid documents for plumbing contractor. We have an example of previous remediation plumbing bid set asking for plumber and apprentice rates for an assumed number of hours and percent markup on a fixed sum. Whereas the awarded plumbing contractor can replace fixtures as specified by the firm as we go.

3. Q: Task 1.03 is titled Remediation Plumbing, Sampling and Testing, but the written scope does not describe sampling and testing. Will testing of water from the newly installed fixtures be required?

A: The firm will need to know what the regulations are for sampling and testing, including the regulation requiring all fixtures to be tested and reported in 2020 as well as the regulation requiring every replaced or newly installed fixture needing to be tested and passing (again) before it can be used for drinking.

4. Q: Costs for overseeing the plumbing replacements are being requested on a lump sum basis and the firm is required to provide an estimated duration for the replacement of 300 POs. It seems that the duration and associated costs to be incurred by the selected firm would be subject to the third party plumbing contractor's schedule and work productivity, which is unknown at this time. Will the City provide an estimated duration of the plumbing work requiring oversight for costing purposes?

A: No. For plumbing remediation the firm is not expected to babysit the plumber full time but to track their work progress and systematically make rounds to confirm their work was done at the right location with proper model faucet and signed where needed. With regard to On-Going Plumbing and Reimbursables, the hourly rates will be charged to the district and against this "allowance" where time reports are required as backup.

5. Q: Fieldwork accounts for the most substantial cost of a typical program, yet the regulations allow district staff to collect samples. Is the district open to an approach where facility managers/buildings maintenance staff make a sample plan and collect samples, especially if this approach has been successful in other states? Does the district have a strong preference for whether sampling is completed by an engineering firm or facility personnel?

A: The firm will be responsible for the district wide (one time) sampling of every potable outlet to ensure consistency in procedures and records. Follow up sampling after remediation can be done by in-house staff however, the firm will be required to identify these, arrange testing lab, keep records and report as necessary.

6. Q: Given the current circumstances, school buildings will likely be empty until the fall. When does the district expect to begin sampling?

A: According to the NYSDOH, for first draw samples, water must be motionless in pipes for a minimum of 8-hours and maximum of 18-hours before sample collection. Therefore the building must be occupied on a regular basis in order to do district wide first draw samples. Until and unless the NYSDOH gives us instructions otherwise.

7. Q: How does the district plan to share data, remediation plans, and actions with the public? What is the district's ideal method for sharing this information with the public?

A: The firm will generate a report for each school, listing every fixture tested and their results; highlighting each failure if any and what action was taken (Ie: shut off, posted do not drink, removed, etc.). This report will be distributed to each school with letter to stakeholders and posted on the District's website.

8. Q: Is the contractor responsible for facilitating communication of the results with the school community/public?

A: No, only the data and reports necessary for the District to present to them.

RFP-423A: ADDENDUM No. 3 – ACKNOWLEDGEMENT – Return this document with your sealed RFP.

Proposing Firm: H2M architects + engineers

Address: 538 Broad Hollow Rd, 4th Floor East, Melville NY 11747

Proposer's Representative: Paul Lageraen, P.E., P.G. **Title:** Vice President

E-mail: plageraen@h2m.com **Signature:**  **Date:** 4/28/2020

SCHEDULE "D" -
Questionnaire Regarding Business Enterprises Owned
and Controlled by Persons of Color or Women

As part of the City's desire to encourage the meaningful and significant participation of business enterprises owned and controlled by persons of color or women in City contracts, and in furtherance of Article VIII of Chapter 13 of the City Code, completion of this form is required.

The term persons of color means a United States citizen or permanent resident alien who is and can demonstrate membership of one of the following groups: (a) Black persons having origins in any of the Black African racial groups; (b) Hispanic persons of Mexican, Puerto Rican, Dominican, Cuban, Central or South American descent of either Indian or Hispanic origin regardless of race; (c) Native American or Alaskan native persons having origins in any of the original peoples of North America; or (d) Asian or Pacific Islander persons having origins in any of the Far East countries, South East Asia, the Indian sub-continent or the Pacific Islands.

An enterprise owned and controlled by persons of color or women means a business enterprise including a sole proprietorship, limited liability partnership, partnership, limited liability corporation or corporation that is (a) at least 51% owned by one or more persons of color or women; (b) an enterprise in which such ownership by persons of color or women is real, substantial and continuing; (c) an enterprise in which such ownership interest by persons of color or women has and exercises the authority to control and operate, independently, the day-to-day business decisions of the enterprise; and (d) an enterprise authorized to do business in this state which is independently owned and operated.

In addition, a business enterprise owned and controlled by persons of color or women shall be deemed to include any business enterprise certified as an MBE or WBE pursuant to article 15-a of the New York State Executive Law and implementing regulations, 9 NYCRR subtitle N Part 540 et seq., or as a small disadvantaged business concern pursuant to the Small Business Act, 15 U.S.C. 631 et seq., and the relevant provisions of the Code of Federal Regulations as amended.

1. Are you a business enterprise which is owned and controlled by persons of color or women in accordance with the standards listed above?



No



Yes (as a business owned and controlled by persons of color)



Yes (as a business owned and controlled by women)

2. Are you certified with the State of New York as a minority business enterprise ("MBE") or a women business enterprise ("WBE")?



No



Yes (as a MBE)



Yes (as a WBE)

If yes, official documentation of such certification must be attached hereto.

3. If you are a business owned and controlled by persons of color, please specify the minority classifications which apply: _____

4. If you are certified with the State of New York as an MBE, please specify the minority classifications which apply: _____

5. Are you certified with the Federal Government as a small disadvantaged business concern?



Yes




No

6. Name of Firm/Business Enterprise: H2M architects + engineers

Address: 538 Broad Hollow Rd, 4th Floor East

Melville, NY 11747

Completed By (Print Name/Title): Paul R. Lageraaen, P.E., P.G., Vice President

Signature: 

SCHEDULE "E"

CERTIFICATION REGARDING BUSINESS DEALINGS WITH NORTHERN IRELAND

- A. The Contractor and any individual or legal entity in which the Contractor holds a ten percent (10%) or greater ownership interest and any individual or legal entity that holds a ten percent (10%) or greater ownership interest in the Contractor (a) has no business operations in Northern Ireland, or (b) shall take lawful steps in good faith to conduct any business operations in Northern Ireland in accordance with the MacBride Principles.
- B. For purposes of this Certification, "MacBride Principles" shall mean those principles relating to nondiscrimination in employment and freedom of workplace opportunity which require employers doing business in Northern Ireland to:
- (1) increase the representation of individuals from underrepresented religious groups in the work force, including managerial, supervisory, administrative, clerical and technical jobs;
 - (2) take steps to promote adequate security for the protection of employees from underrepresented religious groups both at the workplace and while traveling to and from work;
 - (3) ban provocative religious or political emblems from the workplace;
 - (4) publicly advertise all job openings and make special recruitment efforts to attract applicants from underrepresented religious groups;
 - (5) establish layoff, recall and termination procedures which do not in practice favor a particular religious group;
 - (6) abolish all job reservations, apprenticeship restrictions and differential employment criteria which discriminate on the basis of religion;
 - (7) develop training programs that will prepare substantial numbers of current employees from underrepresented religious groups for skilled jobs, including the expansion of existing programs and the creation of new programs to train, upgrade and improve the skills of workers from underrepresented religious groups;
 - (8) establish procedures to assess, identify and actively recruit employees from underrepresented religious groups with potential for further advancement; and
 - (9) appoint a senior management staff member to oversee affirmative action efforts and develop a timetable to ensure their full implementation.
- C. For purposes of this Certification, "Northern Ireland" shall be understood to be the six counties partitioned from the Irish Province of Ulster, and administered from London and/or from Stormont.
- D. The Contractor agrees that the warranties and representation in paragraph "A" are material conditions of this Agreement. If the City receives information that the Contractor is in violation of paragraph "A", the City shall review such information and give the Contractor opportunity to respond. If the City finds that such a violation has occurred, the City may declare the Contractor in default, and/or terminate this Agreement. In the event of any such termination, the City may procure the supplies, services or work from another source in accordance with applicable law. The Contractor shall pay to the City the difference between the contract price for the uncompleted portion of this Agreement and the cost to the City of completing performance of this Agreement either by itself or by engaging another contractor. If this is a contract other than a construction contract, the Contractor shall be liable for the difference in price if the cost of procurement from another source is greater than what the City would have paid the Contractor plus any reasonable costs the City incurs in any new procurement and if this is a construction contract, the City shall also have the right to hold the Contractor in partial or total default in accordance with the default provisions of this Agreement. In addition, the Contractor may be declared not to be a responsible bidder or proposer for up to three (3) years, following written notice to the Contractor, giving the Contractor the opportunity for a hearing at which the Contractor may be represented by counsel. The rights and remedies of the City hereunder shall be in addition to, and not in lieu of, any rights and remedies the City has pursuant to this Agreement or by operation of law or in equity.

Agreed:

H2M Architects, Engineers, Land Surveying and Landscape Architecture, DPC

(Legal Name of Person, Firm or Corporation)

By:



(Signature of Authorized Representative)

Paul R. Lageraaen, P.E., P.G., Vice President

(Title)

Dated: 4/28/2020

SCHEDULE "F"

CERTIFICATION OF COMPLIANCE WITH THE IRAN DIVESTMENT ACT

As a result of the Iran Divestment Act of 2012 (the "Act"), Chapter 1 of the 2012 Laws of New York, a new provision has been added to State Finance Law (SFL) § 165-a and New York General Municipal Law § 103-g, both effective April 12, 2012. Under the Act, the Commissioner of the Office of General Services (OGS) will be developing a list of "persons" who are engaged in "investment activities in Iran" (both are defined terms in the law) (the "Prohibited Entities List"). Pursuant to SFL § 165-a(3)(b), the initial list is expected to be issued no later than 120 days after the Act's effective date at which time it will be posted on the OGS website.

By submitting a bid in response to this solicitation or by assuming the responsibility of a Contract awarded hereunder, each Bidder/Contractor, any person signing on behalf of any Bidder/Contractor and any assignee or subcontractor and, in the case of a joint bid, each party thereto, certifies, under penalty of perjury, that once the Prohibited Entities List is posted on the OGS website, that to the best of its knowledge and belief, that each Bidder/Contractor and any subcontractor or assignee is not identified on the Prohibited Entities List created pursuant to SFL § 165-a(3)(b).

Additionally, Bidder/Contractor is advised that once the Prohibited Entities List is posted on the OGS Website, any Bidder/Contractor seeking to renew or extend a Contract or assume the responsibility of a Contract awarded in response to this solicitation must certify at the time the Contract is renewed, extended or assigned that it is not included on the Prohibited Entities List.

During the term of the Contract, should the City of Yonkers receive information that a Bidder/Contractor is in violation of the above-referenced certification, the City will offer the person or entity an opportunity to respond. If the person or entity fails to demonstrate that he/she/it has ceased engagement in the investment which is in violation of the Act within 90 days after the determination of such violation, then the City shall take such action as may be appropriate including, but not limited to, imposing sanctions, seeking compliance, recovering damages or declaring the Bidder/Contractor in default.

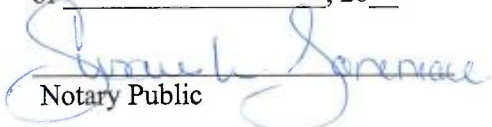
The City reserves the right to reject any bid or request for assignment for a Bidder/Contractor that appears on the Prohibited Entities List prior to the award of a contract and to pursue a responsibility review with respect to any Bidder/Contractor that is awarded a contract and subsequently appears on the Prohibited Entities List.

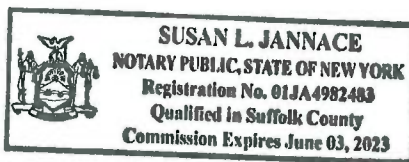
I, Paul R. Lageraen, P.E., P.G., being duly sworn, deposes and says that he/she is the Vice President of the H2M architects + engineers Corporation and that neither the Bidder/Contractor nor any proposed subcontractor is identified on the Prohibited Entities List.



SIGNED

SWORN to before me this 28 day
of April, 2020


Notary Public



SCHEDULE "H"

PROPOSER CERTIFICATION

The undersigned agrees and understands that this proposal and all attachments, additional information, etc. submitted herewith constitute merely an offer to negotiate with the City of Yonkers and is NOT A BID. Submission of this proposal, attachments, and additional information shall not obligate or entitle the proposing entity to enter into a service agreement with the City of Yonkers for the required services. The undersigned agrees and understands that the City of Yonkers is not obligated to respond to this proposal nor is it legally bound in any manner whatsoever by the submission of same. Further, the undersigned agrees and understands that any and all proposals and negotiations shall not be binding or valid against the City of Yonkers, its directors, officers, employees or agents unless an agreement is signed by a duly authorized officer of the City of Yonkers and approved by the Office of the Corporation Counsel.

It is understood and agreed that the City of Yonkers reserves the right to reject consideration of any and all proposals including, but not limited to, proposals which are conditional or incomplete. It is further understood and agreed that the City of Yonkers reserves all rights specified in the Request for Proposals.

It is represented and warranted by those submitting this proposal that except as disclosed in the proposal, no officer or employee of the City of Yonkers is directly or indirectly a party to or in any other manner interested in this proposal or any subsequent service agreement that may be entered into.

H2M Architects, Engineers, Land Surveying and Landscape Architecture, DPC

(Legal Name of Person, Firm or Corporation)

By: 

(Signature of Authorized Representative)

Paul R. Lageraaen, P.E., P.G., Vice President

(Title)

Dated: 4/28/2020

SCHEDULE I - SINGLE-USE ACCOUNT ENROLLMENT

The City of Yonkers (“the City”) now utilizes Single-Use Accounts (“SUA”) for electronic payments which will allow for a faster, more efficient payment process. A Single-Use Account is a virtual electronic card payment solution that is processed like a credit card. Each SUA is assigned a unique 16-digit virtual card number, which carries a credit limit equal to the invoice(s) being paid and remains active for a defined period of time. SUA payments come with no additional costs from the City or the City’s banking vendor, however, Consultant’s/Vendor’s credit card processing fees will apply.

If you wish to receive payment electronically, you can enroll in the City’s SUA payment program by completing the acceptance below. The Consultant/Vendor will then receive a welcome email from the City with important instructions on processing SUA payments.

For any questions relating to SUA, please contact: City of Yonkers/Yonkers Public Schools
 Accounts Payable Department
 E-mail: COYSUA@yonkersny.gov
 Phone: 914-376-8037

ENROLLMENT ACCEPTANCE:

Is the Contractor already enrolled in the City’s SUA program? YES _____ NO

If the Contractor answered “no” to the question above and you wish to enroll, please fill in the following information:

Accounts Receivable Contact Information	
Name and Title:	
Phone Number:	
Payment Notification Email Address*:	

**An email address is required for the payment notification.
 We recommend a central email address, such as accountsreceivable@vendorname.com.*

Legal Name of Consultant: _____

Address: _____

Prepared By: _____ Title: _____

Telephone No: _____ Email: _____

Signature: _____ Date: _____



ONE LARKIN CENTER 3RD FLOOR
 Yonkers, New York 10701
 (914) 377-6035
 email: thomas.collich@yonkersny.gov

CITY OF YONKERS
Purchasing

Mike Spano, Mayor
Tom Collich, Director

VENDOR BACKGROUND QUESTIONNAIRE

BID NO.: RFP No. 423A

This questionnaire has been developed to collect information from vendors/contractors wishing to do business with the City of Yonkers.

Please complete the questionnaire carefully, answering all questions truthfully and accurately. Answers **must be typewritten or printed in black or blue ink**. If you need more space to answer a question, **type or print the answer on company letterhead** and attach it to the questionnaire. **ANSWER ALL QUESTIONS - DO NOT LEAVE BLANKS**. Failure to submit a complete and accurate questionnaire may result in your bid **being rejected as non-responsive and, therefore, ineligible for award**.

GENERAL INFORMATION Initial Application: YES NO Revision: YES NO

1. Submitting Business Name H2M Architects, Engineers, Land Surveying and Landscape Architecture, DP
 EIN/SSN 11-2235604
 Dun & Bradstreet # 05-499-2334
 "Doing Business As" Name(s), if any H2M architects + engineers
 Business Address and date business located at this address 538 Broad Hollow Rd, 4th Floor East, Melville NY 11747
 Other business addresses, if any (satellite offices, plants, warehouses, branch offices headquarters, etc.) 2700 Westchester Avenue, Suite 415, Purchase, NY 10577; 119 Cherry Hill Road, Suite 110, Parsippany, NJ 07054; 4810 Belmar Boulevard, Wall Township, NJ 07753; 3 Lear Jet Lane, Suite 205, Latham, NY 12110; 31 Penn Plaza, 132 West 31st Street, Suite 604, New York, New York 10001; 737 Roanoke Ave., Riverhead, NY 11701; 2 Executive Boulevard, Suite 401, Suffern, NY 10901
 Mailing address, if different from above
 Telephone Number 914.358.5623
 Fax Number 914.358.5624
 E-Mail plageraaen@h2m.com
 Contact Person and Title Paul Lageraaen, P.E, P.G. Vice President
 Company website www.h2m.com

2. Does this business now, or has it in the past 10 years, used an EIN, SSN, Name, Trade Name or abbreviation other than those given in the above question? YES NO If YES, please provide details and explain: See attached responses.

3. Has this business changed addresses in the past five years? YES NO . If YES, please provide all complete former addresses:
Corporate office moved from 575 Broad Hollow Rd, Melville NY 11747

4. a. Date business was formed 1933
 b. Date business was incorporated October 30, 1970

5. Type of Organization (Please circle one)

- a. Business Corporation
 State/County in which incorporated New York
 Name of individuals/entities incorporating business NYS Education Department
 b. Sole Proprietorship
 c. General Partnership/ Limited Partnership
 State or County where partnership certificate/agreement is filed _____
 d. Joint Venture
 e. Non Profit
 f. Not for Profit
 g. Other (Explain) _____

6. Type of Business (Please circle one)

- a. Manufacturing
 b. Distribution
 c. Retail
 d. Commercial Service
 e. Professional Service, Non Construction, Non-Law
 f. Bank
 g. Construction Manager
 h. Architect
 i. Engineer
 j. General Contractor Engineering, Architecture, Planning, Survey, Landscape Architecture, and
 k. Consultant (Specify) Environmental Services
 l. Laboratory Testing and Analysis
 m. Law Firm
 n. Other (Explain) _____

7. Has this business been certified by a government entity (SBA, NYC, etc.) as a Minority Business, Women-Owned Business, Disadvantaged Business or Small Business Enterprise?
 YES , NO If YES, please explain. _____

a. Do you perform outreach to any of these Enterprises to perform subcontracting work?
 YES NO

b. Will you use one of these Enterprises as a subcontractor on work performed for the City of Yonkers? YES NO If YES, explain. As a full service A/E Firm, we perform all services. However, if subcontracting is required, state approved MBE/WBE/DBE firms are routinely used.

BUSINESS HISTORY

8. Was this business purchased as an existing business by its present owners? YES , NO
 If YES, please provide date of purchase and name(s) of previous owner(s).

9. Does this business own , rent or lease its office facilities? (Please check one). If leased or rented, please provide name, address, and telephone number of building owner/landlord. Fairfield Properties, 538 Broad Hollow Rd, 3rd Floor, Melville NY 11747, (631) 499-6660

10. Does this business share office space, staff, equipment, or expenses with any other business or not-for-profit organization? YES , NO If YES, please provide the name and address of the other entity and nature of relationship to this business.

11. Will this business use or occupy any real property, other than the addresses listed in response to Question 1., to carry out the terms of any contract you may receive from the City of Yonkers? YES , NO If YES, please provide details and explain.

BUSINESS PRINCIPALS

12. For all proprietors, partners, directors, officers, shareholders of 5% or more of the businesses' issued stock, any manager or individual who takes part in overall policy making or financial decisions for the business, and any person in a position to control or direct the businesses' overall operations, please provide name, home address, date of birth, social security number, title, percentage of ownership, and business telephone number.
See attached responses.

13. Number of Employees 480

14. Is this business now or has it been in the last five years a subsidiary of another business? YES , NO In this period, has another business been a partner in this business, or has another business been affiliated with this business through common ownership, management or agreement, or has another business owned 5% or more of this business? YES NO . If YES, please provide details and explain.
See attached responses.

15. Has this business or any other business listed in response to question 14 pledged or hypothecated 5% or more of its stock to another business or to an individual to guarantee payment for a debt or obligation? YES , NO If YES, please provide details and explain.

16. Is this business or any business listed in response to question 14 now or has it been in the last five years:

- The owner of 5% or more or in control of another business, an affiliate or a subsidiary? YES , NO
- A vendor of or contractor to the City of Yonkers? YES , NO
- A subcontractor on any contract with the City of Yonkers? YES , NO

If YES to any above, please provide details and explain. _____

17. Are any of the persons listed in answer to question 12 now or have been in the past, elected or appointed officials or officers or employees of the City of Yonkers? YES NO . If YES, please provide details and explain. Vice President Jay Pisco worked an after school job during high school at the City of Yonkers City Hall and Board of Education for 2 years.

18. Has this business or any business listed in response to question 14 at present or has it ever been:

- a. Debarred by any agency* from entering contracts? YES , NO
- b. Found not responsible by any government agency? YES , NO
- c. Declared in default and/or terminated for cause on any contract, and/or had any contract cancelled for cause? YES , NO
- d. Suspended by any government agency from entering any contract with it? YES , NO
- e. Party to any action pending that could formally debar or otherwise effect this business' ability to bid or propose on contracts? YES , NO
- f. A respondent before the Grand Jury or any Federal, State or City Board? YES , NO
- g. Unable to execute a contract with a government agency because it could not provide the required security or obtain a surety bond? YES , NO
- h. Required to pay liquidated damages on a contract? YES , NO
- i. In default on any obligation to, or subject to any unsatisfied judgment or lien obtained by a government agency, including judgments based on taxes owed? YES , NO
- j. Filed a bankruptcy petition or been subject to any involuntary bankruptcy proceedings? YES , NO
- k. Subject of termination for cause or revocation of permits, licenses, concessions, franchises, or leases? YES , NO
- l. Subject of a criminal investigation** or civil anti-trust investigation by any Federal, State or Local prosecutorial or investigative agency? YES , NO
- m. Subject of an investigation by any government agency, including regulatory agencies (Security Exchange Commissions, Federal Communications Commission, Department of Consumer Affairs, etc.) YES NO . See attached.

If you answered YES TO ANY OF THE QUESTIONS IN ITEM 18, please provide details including dates, agency/entity names, and disposition on company letterhead.

* Government agency includes City, State and Federal Public Agencies, quasi-public agencies, authorities and corporations, public development corporations and local development corporations.

** An investigation includes an appearance before a grand jury by a person or representatives of a business entity, any oral or written inquiry, or review of documents by a public agency, temporary commission or other investigative body, or questioning concerning the general operation or a specific project or activities of business entity or the activities of a person.

19. In the last five years, have any of the persons listed in response to question 12:

- a. Been the subject of an investigation involving any alleged violation of criminal law? YES , NO
- b. Been arrested, indicted or named as an unindicted co-conspirator in any indictment or other legal instrument? YES , NO
- c. Been convicted, after trial or by plea, of any felony under State or Federal Law? YES , NO
- d. Been convicted of any misdemeanor involving business-related crimes? YES , NO
- e. Entered a plea of nolo contendere in a legal proceeding? YES , NO
- f. Entered a consent decree? YES , NO
- g. Been granted immunity from prosecution for any business-related conduct constituting a crime under State or Federal Law? YES , NO



PHILIP D. MURPHY
Governor

SHEILA Y. OLIVER
Lt. Governor

New Jersey Office of the Attorney General

Division of Consumer Affairs
State Board of Professional Engineers and Land Surveyors
124 Halsey Street, 3rd Floor, Newark, NJ 07102
<http://www.njconsumeraffairs.gov/pels>



GURBIR S. GREWAL
Attorney General

PAUL R. RODRIGUEZ
Acting Director

Mailing Address:
P.O. Box 45015
Newark, NJ 07101
(973) 504-6460
(973) 273-8020 FAX

July 31, 2019

Richard W. Humann, PE
President Chief Executive Officer
H2M Architects and Engineering
538 Broad Hollow Rd. 4th Floor East
Melville, New York, 11747

Re: Case #ENG-2018-08486
Scott Gusmer Residence
1121 Ocean Avenue, Mantoloking, New Jersey
H2M Project Number NJM1 14-01

Dear Mr. Humann:

The New Jersey State Board of Professional Engineers and Land Surveyors ("the Board") has completed its investigation into H2M Architects and Engineering with regards to the services provided by a Professional Engineer employed by your company who was not licensed by the State of New Jersey.

After a thorough review of the information assembled in this case, the Board unanimously voted there was "insufficient cause" for any further action to be taken against you.

The Board now considers this case closed.

Very truly yours,

Michael DeFrancisci
Acting Executive Director

If you answered YES TO ANY OF THE QUESTIONS IN ITEM 19, please provide details including dates, agency/entity names, and disposition on company letterhead.

20. Has any person listed in response to question 12 been employed by or affiliated with any person or business that has:
- a. Been the subject of an investigation involving any alleged violation of criminal law? YES , NO
 - b. Been arrested, indicted or named as an unindicted co-conspirator in any indictment or other legal instrument YES , NO
 - c. Been convicted, after trial or by plea, of any felony under State or Federal Law? YES , NO
 - d. Been convicted of any misdemeanor involving business-related crimes? YES , NO
 - e. Entered a plea of nolo contendere in a legal proceeding? YES , NO
 - f. Entered a consent decree? YES , NO
 - g. Been granted immunity from prosecution for any business – related conduct constituting a crime under State or Federal Law? YES , NO

If you answered YES TO ANY OF THE QUESTIONS IN ITEM 20, please provide details including dates, agency/entity names, and disposition on company letterhead.

21. Has this or any business listed in response to question 14 or any person listed in response to question 12 failed to pay any applicable Federal, State or Local government taxes for the past five years? YES , NO If YES, explain _____

22. In the past five years, has this or any business listed in response to question 14 or any person listed in response to question 12 committed any act of collusion, bid rigging or price fixing in submitting a competitive bid? YES , NO
If YES, explain _____

23. Licensing: List jurisdiction and trade categories in which your organization is legally qualified to do business (if applicable), and attach legible copies of registrations and/or licenses.

<u>Jurisdiction</u>	<u>Trade Category</u>
Certificate of Authorization - NYS	Engineering and Surveying

24. Pursuant to Executive Order No 6-2013, “delinquent Contractors shall not be deemed responsible bidders for purposes of awarding contract. It is the policy of the City of Yonkers to disqualify persons or business entities which are delinquent in financial obligations to the City or its affiliated agencies, boards or commissions from participating in City contracts and business opportunities.” Is the Contractor currently delinquent in its financial obligations to the City or its affiliated agencies, boards or commissioners? YES , NO
If YES, explain _____

25. Does the Contractor or Controlling Person(s) own any property within the City of Yonkers?
YES NO

If “Yes,” please list the address of each property.

26. **If requested, the Bidder shall provide a list of references on company letterhead in this format:**

1. Agency/owner
2. Contract number
3. Contract title
4. Name & location of project
5. Contact name, telephone number, address
6. Brief description of work and services provided
7. Indicate if you were a prime or sub-contractor
8. If you were the prime contractor and sub-contractors were used, identify the names of the sub-contractors and describe the work they performed
9. Period of performance
10. Original contract amount
11. Current or final contract amount
12. Number of change orders
13. Reason for change orders
14. Describe any area of the scope-of-work considered unique
15. Indicate any key individuals who participated in this contract that are proposed to be assigned to the City/YPS contract

If requested by the City of Yonkers, H2M will provide a list of references on company letterhead in this format.

CERTIFICATION

A materially false statement willfully or fraudulently made in connection with this questionnaire is sufficient cause for rendering the business entity not responsible with respect to the present bid or proposal and future bids or proposals, and in addition, may subject the person and/or entity making the false statement to criminal charges, including but not limited to New York State Penal Law sections 175.35 (Offering a false statement for filing) and 210.40 (Sworn false statement) and/or Title 18 U.S.C. sections 1001 (False or fraudulent statement) and 1341 (Mail fraud).

I, Paul R. Lageraaen, P.E., P.G., being duly sworn, state that I am the
Print or Type Name of Bidder/Proposer Authorized Representative
Vice President of H2M architects + engineers, and Print or
Type Title of Bidder/Proposer Authorized Representative Print or Type Name of Entity Submitting
Bid/Proposal


I have read and understand the questions contained in the attached questionnaire and its appendices. I certify that to the best of my knowledge the information given in response to each question and appendices is full, complete, and truthful.

I will notify the City of Yonkers in writing of any change in circumstances occurring after the submission of this questionnaire and before the execution of any contract with the City.

I acknowledge that the City of Yonkers may, by means it deems appropriate, determine the accuracy and truth of the statements made in this questionnaire.

I recognize that all information submitted is for the express purpose of inducing the City to enter a contract with the submitting business entity.

I authorize the City to contact any entity or person named in this questionnaire, for purposes of verifying the information submitted.

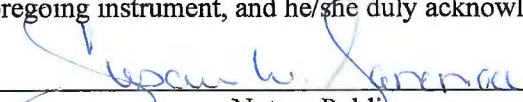
 Paul R. Lageraaen, P.E., P.G.
Signature of Bidder/Proposer Authorized Representative

STATE OF New York)

COUNTY OF Suffolk) ss:

On the 28 day of April, in the year 2020, before me personally came
Paul R. Lageraaen, P.E., P.G., to me known and known to me to be the person
Print or Type Name of Bidder/Proposer Authorized Representative

described in and who executed the foregoing instrument, and he/she duly acknowledged that he/she executed the same.


Notary Public

Place Notary Public Stamp Here:



**H2M Architects, Engineers, Surveying and Landscape Architecture, DPC
Responses to City of Yonkers – Vendor Background Questionnaire for Bid**

- 2) Holzmacher, McLendon & Murrell, PC changed its corporate structure on November 15, 2013 to H2M Architects, Engineers, Land Surveying and Landscape Architecture, D.P.C. to take advantage of a new form of corporate governance (Design Professional Corporations – DPC) that is now allowed in New York.

BUSINESS PRINCIPALS

12) OFFICERS AND SHAREHOLDERS OVER 5%

Corporate Office Phone Number (631) 756-8000

NAME	ADDRESS	TITLE	SHARES
Richard W. Humann, P.E.	11 Garden Street, Nesconset, NY 11767	Chairman, Chief Executive Office, President	More than 5%
Joseph M. Mottola, AIA	15 Cherry St., Massapequa, NY 11758	Chief Operating Officer, Executive Vice President, Secretary	More than 5%
Dennis M. Kelleher, P.E.	22 Antona Blvd., Centereach, NY 11720	Chief Market Director, Executive Vice President	More than 5%
Steven J. Hyman, P.E.	31 Cardinal Lane, Hauppauge, NY 11788	Principal Office Director, Executive Vice President	Less than 5%
Gregory C. Smith, CPA	17 Lone Hill Place, Dix Hills, NY 11746	Chief Financial Officer, Executive Vice President, Treasurer	Less than 5%
Michael J. Bonacasa, AIA	338 St. Marks Avenue, Bellmore, NY 11710	Senior Vice President	Less than 5%
Jeffrey L. Czajka, P.E.	1016 Montauk Ave, Islip Terrace, NY 11752	Senior Vice President	Less than 5%
Anthony P. Fisher, P.E.	4 Andrea Lane, Greenlawn, NY 11740	Senior Vice President	More than 5%
Michael N. Gentils	1397 Spur Drive South, Islip, NY 11751	Senior Vice President	Less than 5%
Michael W. Keffer, P.E.	52 Highwood Road, Oyster Bay, NY 11771	Senior Vice President	Less than 5%
Ronald B. Lanner, R.A.	2 Harbor Heights Dr, Centerport, NY 11721	Senior Vice President	Less than 5%
Charles A. Martello, P.E.	56 Chicasaw Drive, Oakland, NJ 07436	Senior Vice President	Less than 5%
James L. Neri, P.E.	9 Ames Place, Huntington Station, NY 11746	Senior Vice President	Less than 5%
Guy Y. Page, R.A.	34 Siracusa Blvd, Smithtown, NY 11787	Senior Vice President	Less than 5%
Philip J. Schade, P.E.	89 Simcoe Street, Oyster Bay, NY 11771	Senior Vice President	Less than 5%
Elizabeth C. Uzzo	2 Avon Court, Dix Hills, NY 11746	Senior Vice President	Less than 5%
Saverio J. Belfiore, AIA	89 Pacific Street, Massapequa Park, NY 11762	Vice President	Less than 5%
Steven C. Hearl, P.E.	43 Sinclair Drive, Greenlawn, NY 11740	Vice President	Less than 5%
Ernest V. Iannucci, P.E.	470 Broadway, Carle Place, NY 11514	Vice President	Less than 5%
Paul R. Lageraen, P.E.	13 Grover Lane, East Northport, NY 11731	Vice President	Less than 5%
Sui Y. Leong, P.E.	28 Crystal Rock Road, Sparta, NJ 07871	Vice President	Less than 5%
Dennis G. Lindsay, P.E.	88 Schindler Way, Fairfield, NJ 07004	Vice President	Less than 5%
David L. Mammina, AIA	51 Titus Avenue, Carle Place, NY 11514	Vice President	Less than 5%
Joseph A. Manzella, P.E.	49 Francis Boulevard, Holtsville, NY 11742	Vice President	Less than 5%
David J. Pacheco, AIA	1377 Dean Street, Niskayuna, NY 12309	Vice President	Less than 5%
Kevin M. Paul, AIA, LEED AP	273 Astor Drive, Sayville NY 11782	Vice President	Less than 5%
Jay Pisco, P.E.	963A Heritage Hills, Somers, NY 10589	Vice President	Less than 5%
Dennis A. Ross, AIA	323 Highgate Drive, Slingerlands, NY 12159	Vice President	Less than 5%
James Roberts, P.E.	28 Derby Court, Malverne, NY 11565	Vice President	Less than 5%
William Rockensies, P.E.	66 Westminster Road, West Hempstead, NY 11552	Vice President	Less than 5%
Richard B. Schommer, P.E.	2 Mountain View Drive, Chester, NJ 07930	Vice President	Less than 5%
Michael V. Tumulty, P.E.	44 Bedford Place, Ramsey, NJ 07446	Vice President	No Shares
Christopher Weiss, P.E.	42 First Avenue, Medford, NY 11801	Vice President	Less than 5%
Richard Wiedersum, AIA, LEED AP	14 Briarwood Court, St. James, NY 11780	Vice President	Less than 5%
Veronica E. Byrnes, R.A., LEED AP	2 Canfield Avenue, Apt 828, White Plains, NY 10601	Assistant Vice President	Less than 5%
Patrick K. Cole, P.E., CME, CPWM	609 Rankin Road, Brielle, NJ 08730	Assistant Vice President	Less than 5%
John R. Collins, P.E.	525 Water Terrace, Southold, NY 11971	Assistant Vice President	Less than 5%
Alexander Hochhausl, P.E.	29 Wedgewood Drive, Coram NY 11727	Assistant Vice President	Less than 5%
Robert E. Ikes, III, R.A.	2578 Overlook Place, Baldwin, NY 11510	Assistant Vice President	Less than 5%
Michael W. Lantier, P.E., LEED AP	14 Audubon Place, Huntington, NY 11743	Assistant Vice President	Less than 5%
Robert J. Lucas, P.E.	40 Seventh Street, West Islip, NY 11795	Assistant Vice President	Less than 5%
Kenneth A. Keltai, RLA, ISA	7136 110 th Street Apr. 5H, Forest Hills NY 11375	Assistant Vice President	No Shares
Debra L. Mattina	2572 Seventh Avenue, East Meadow, NY 11554	Assistant Vice President	Less than 5%
Matthew R. Mohlin, P.E.	5 Roosevelt Drive, Smithtown, NY 11787	Assistant Vice President	Less than 5%
Sharon Norton Remmer	500 Shore Drive, Oakdale, NY 11769	Assistant Vice President	Less than 5%
Jamie Pizzardi	23 Apple Tree Drive, Hauppauge, NY 11788	Assistant Vice President	Less than 5%
William Rospars	52 Highwood Road, Oyster Bay NY 11771	Assistant Vice President	Less than 5%
John Schnurr, P.L.S.	P.O. Box 1492, Rocky Point, NY 11778	Assistant Vice President	No Shares

Kevin M. Taylor	77 Ridgewood Avenue, Holtsville, NY 11742	Assistant Vice President	Less than 5%
Joseph Todaro, P.E., LEED AP	183 Thomas Powell Boulevard, Farmingdale, NY 11735	Assistant Vice President	Less than 5%

Board of Directors in bold

OTHER SHAREHOLDERS

NAME	ADDRESS	TITLE	SHARES
Alison K. Auriemmo, P.E., LEED AP	17 Oak Ridge Lane, Albertson, NY 11507	Senior Associate	Less than 5%
Robert F. Bee, R.A., LEED AP	72 Grand Avenue, Rockville Centre, NY 11570	Senior Associate	Less than 5%
Philip Bianco	1282 Jackson Avenue, Lindenhurst, NY 11757	Senior Associate	Less than 5%
Kenneth R. Gehringer, AIA	16 Gerhardy Street, East Islip, NY 11730	Senior Associate	Less than 5%
Scott D. Lehn, P.E.	27 Hanover Place, Smithtown, NY 11787	Senior Associate	Less than 5%
Gregory J. Levasseur, P.E.	167 Beach 100 Street, Rockaway Park, NY 11604	Senior Associate	Less than 5%
Eric W. Maisch, R.A., LEED AP	404 Main Street, Northport, NY 11768	Senior Associate	Less than 5%
Richard Palladino	65 Long Meadow Place, S. Setauket, NY 11720	Senior Associate	Less than 5%

14) SUBSIDIARY/AFFILIATES:

SUBSIDIARY:

H2M Associates, Inc.

100% wholly owned subsidiary of H2M Architects, Engineers, Surveying and Landscape Architecture, DPC
 119 Cherry Hill Road, Suite 110, Parsippany, NJ 07054
 EIN: 22-2275101

AFFILIATE FIRMS:

The following firm is affiliates because some officers of these firms are also officers of H2M Architects, Engineers, Surveying and Landscape Architecture, DPC

H2M Architects & Engineers, Inc.

119 Cherry Hill Rd, Suite 110, Parsippany, NJ 07054
 EIN: 20-0809570

**THE UNIVERSITY OF THE STATE OF NEW YORK
EDUCATION DEPARTMENT**

THIS IS TO CERTIFY THAT HAVING MET THE REQUIREMENTS OF SECTION 7210 OF THE EDUCATION LAW AND IN ACCORDANCE THEREWITH THIS CERTIFICATE OF AUTHORIZATION IS GRANTED WHICH ENTITLES

**H2M ARCHITECTS ENGINEERS LAND SURVEYING AND
LANDSCAPE ARCHITECTURE DPC
538 BROAD HOLLOW RD
4TH FLOOR EAST
MELVILLE, NY 11747-5076**

TO PROVIDE PROFESSIONAL ENGINEERING SERVICES IN THE STATE OF NEW YORK FOR THE PERIOD 01/01/2018 TO 12/31/2020.



Maryellen Elia
MARYELLEN ELIA
COMMISSIONER OF EDUCATION

CERTIFICATE NUMBER
0014946

**THE UNIVERSITY OF THE STATE OF NEW YORK
EDUCATION DEPARTMENT**

THIS IS TO CERTIFY THAT HAVING MET THE REQUIREMENTS OF SECTION 7210 OF THE EDUCATION LAW AND IN ACCORDANCE THEREWITH THIS CERTIFICATE OF AUTHORIZATION IS GRANTED WHICH ENTITLES

**H2M ARCHITECTS ENGINEERS LAND SURVEYING AND
LANDSCAPE ARCHITECTURE DPC
538 BROAD HOLLOW RD
4TH FLOOR EAST
MELVILLE, NY 11747-5076**

TO PROVIDE LAND SURVEYING SERVICES IN THE STATE OF NEW YORK FOR THE PERIOD 02/01/2018 TO 01/31/2021.



Maryellen Elia
MARYELLEN ELIA
COMMISSIONER OF EDUCATION

CERTIFICATE NUMBER
0015126

**NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER**



Expires 12:01 AM April 01, 2021
Issued April 01, 2020

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. ROBERT Q. BRADLEY
YORK ANALYTICAL LABORATORIES INC
120 RESEARCH DRIVE
STRATFORD, CT 06615

NY Lab Id No: 10854

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2003) for the category
ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:*

Acrylates

Acrolein (Propenal) EPA 8260C
EPA 624.1
Acrylonitrile EPA 8260C
EPA 624.1
Methyl methacrylate EPA 8260C

Amines

1,2-Diphenylhydrazine EPA 8270D
2-Nitroaniline EPA 8270D
3-Nitroaniline EPA 8270D
4-Chloroaniline EPA 8270D
4-Nitroaniline EPA 8270D
Aniline EPA 625.1
EPA 8270D
Carbazole EPA 625.1
EPA 8270D
Diphenylamine EPA 8270D
Pyridine EPA 625.1
EPA 8270D

Benzidines

3,3'-Dichlorobenzidine EPA 625.1
EPA 8270D
Benzidine EPA 625.1
EPA 8270D

Chlorinated Hydrocarbon Pesticides

4,4'-DDD EPA 8081B
EPA 608.3
4,4'-DDE EPA 8081B
EPA 608.3
4,4'-DDT EPA 8081B
EPA 608.3
Aldrin EPA 8081B
EPA 608.3
alpha-BHC EPA 8081B
EPA 608.3
alpha-Chlordane EPA 8081B
beta-BHC EPA 8081B
EPA 608.3
Chlordane Total EPA 8081B
EPA 608.3
delta-BHC EPA 8081B
EPA 608.3
Dieldrin EPA 8081B
EPA 608.3
Endosulfan I EPA 8081B
EPA 608.3
Endosulfan II EPA 8081B
EPA 608.3
Endosulfan sulfate EPA 8081B
EPA 608.3
Endrin EPA 8081B



Serial No.: 61204

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



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Chlorinated Hydrocarbon Pesticides

Endrin	EPA 608.3
Endrin aldehyde	EPA 8081B
	EPA 608.3
Endrin Ketone	EPA 8081B
gamma-Chlordane	EPA 8081B
Heptachlor	EPA 8081B
	EPA 608.3
Heptachlor epoxide	EPA 8081B
	EPA 608.3
Lindane	EPA 8081B
	EPA 608.3
Methoxychlor	EPA 8081B
	EPA 608.3
Mirex	EPA 8081B
Toxaphene	EPA 8081B
	EPA 608.3

Chlorinated Hydrocarbons

1,2,3-Trichlorobenzene	EPA 8260C
1,2,4,5-Tetrachlorobenzene	EPA 8270D
1,2,4-Trichlorobenzene	EPA 625.1
	EPA 8270D
2-Chloronaphthalene	EPA 625.1
	EPA 8270D
Hexachlorobenzene	EPA 625.1
	EPA 8270D

Chlorinated Hydrocarbons

Hexachlorobutadiene	EPA 625.1
	EPA 8270D
Hexachlorocyclopentadiene	EPA 625.1
	EPA 8270D
Hexachloroethane	EPA 625.1
Pentachlorobenzene	EPA 8270D
	EPA 8270D

Chlorophenoxy Acid Pesticides

2,4,5-T	EPA 8151A
2,4,5-TP (Silvex)	EPA 8151A
	SM 6640B-2006
2,4-D	EPA 8151A
Dicamba	EPA 8151A

Demand

Biochemical Oxygen Demand	SM 5210B-2011
Carbonaceous BOD	SM 5210B-2011
Chemical Oxygen Demand	SM 5220D-2011

Fuel Oxygenates

Di-isopropyl ether	EPA 8260C
Ethanol	EPA 8260C
Methyl tert-butyl ether	EPA 8260C
tert-amyl alcohol	EPA 8260C
tert-amyl methyl ether (TAME)	EPA 8260C
tert-butyl alcohol	EPA 8260C

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All approved analytes are listed below:*

Fuel Oxygenates

tert-butyl ethyl ether (ETBE) EPA 8260C

Haloethers

2,2'-Oxybis(1-chloropropane) EPA 625.1

EPA 8270D

4-Bromophenylphenyl ether EPA 625.1

EPA 8270D

4-Chlorophenylphenyl ether EPA 625.1

EPA 8270D

Bis(2-chloroethoxy)methane EPA 625.1

EPA 8270D

Bis(2-chloroethyl)ether EPA 625.1

EPA 8270D

Low Level Halocarbons

1,2,3-Trichloropropane, Low Level EPA 8011

1,2-Dibromo-3-chloropropane, Low Level EPA 8011

1,2-Dibromoethane, Low Level EPA 8011

Low Level Polynuclear Aromatics

Acenaphthene Low Level EPA 8270D

Acenaphthylene Low Level EPA 8270D

Anthracene Low Level EPA 8270D

Benzo(a)anthracene Low Level EPA 8270D

Benzo(a)pyrene Low Level EPA 8270D

Benzo(b)fluoranthene Low Level EPA 8270D

Benzo(g,h,i)perylene Low Level EPA 8270D

Low Level Polynuclear Aromatics

Benzo(k)fluoranthene Low Level EPA 8270D

Chrysene Low Level EPA 8270D

Dibenzo(a,h)anthracene Low Level EPA 8270D

Fluoranthene Low Level EPA 8270D

Fluorene Low Level EPA 8270D

Indeno(1,2,3-cd)pyrene Low Level EPA 8270D

Naphthalene Low Level EPA 8270D

Phenanthrene Low Level EPA 8270D

Pyrene Low Level EPA 8270D

Metals I

Barium, Total EPA 200.7, Rev. 4.4 (1994)

EPA 6010C

EPA 6010D

EPA 6020A

EPA 6020B

EPA 200.8, Rev. 5.4 (1994)

Cadmium, Total EPA 200.7, Rev. 4.4 (1994)

EPA 6010C

EPA 6010D

EPA 6020A

EPA 6020B

EPA 200.8, Rev. 5.4 (1994)

Calcium, Total EPA 200.7, Rev. 4.4 (1994)

EPA 6010C

EPA 6010D

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Metals I		Metals I	
Chromium, Total	EPA 200.7, Rev. 4.4 (1994)	Manganese, Total	EPA 6010D
	EPA 6010C		EPA 6020A
	EPA 6010D		EPA 6020B
	EPA 6020A		EPA 200.8, Rev. 5.4 (1994)
	EPA 6020B	Nickel, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 200.8, Rev. 5.4 (1994)		EPA 6010C
Copper, Total	EPA 200.7, Rev. 4.4 (1994)		EPA 6010D
	EPA 6010C		EPA 6020A
	EPA 6010D		EPA 6020B
	EPA 6020A		EPA 200.8, Rev. 5.4 (1994)
	EPA 6020B	Potassium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 200.8, Rev. 5.4 (1994)		EPA 6010C
Iron, Total	EPA 200.7, Rev. 4.4 (1994)		EPA 6010D
	EPA 6010C	Silver, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D		EPA 6010C
Lead, Total	EPA 200.7, Rev. 4.4 (1994)		EPA 6010D
	EPA 6010C		EPA 6020A
	EPA 6010D		EPA 6020B
	EPA 6020A		EPA 200.8, Rev. 5.4 (1994)
	EPA 6020B	Sodium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 200.8, Rev. 5.4 (1994)		EPA 6010C
Magnesium, Total	EPA 200.7, Rev. 4.4 (1994)		EPA 6010D
	EPA 6010C	Metals II	
	EPA 6010D	Aluminum, Total	EPA 200.7, Rev. 4.4 (1994)
Manganese, Total	EPA 200.7, Rev. 4.4 (1994)		EPA 6010C
	EPA 6010C		

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Metals II		Metals II	
Aluminum, Total	EPA 6010D EPA 6020A EPA 6020B EPA 200.8, Rev. 5.4 (1994)	Mercury, Total	EPA 7470A EPA 7473
Antimony, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6010D EPA 6020A EPA 6020B EPA 200.8, Rev. 5.4 (1994)	Selenium, Total	EPA 6020A EPA 6020B EPA 200.8, Rev. 5.4 (1994)
Arsenic, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6010D EPA 6020A EPA 6020B EPA 200.8, Rev. 5.4 (1994)	Vanadium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6010D EPA 6020A EPA 6020B EPA 200.8, Rev. 5.4 (1994)
Beryllium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6010D EPA 6020A EPA 6020B EPA 200.8, Rev. 5.4 (1994)	Zinc, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6010D EPA 6020A EPA 6020B EPA 200.8, Rev. 5.4 (1994)
Chromium VI	EPA 7196A SM 3500-Cr B-2011	Metals III Cobalt, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6010D EPA 6020A EPA 6020B EPA 200.8, Rev. 5.4 (1994)
Mercury, Total	EPA 245.1, Rev. 3.0 (1994) EPA 245.2 (Issued 1974, Rev. 1983)	Molybdenum, Total	EPA 200.8, Rev. 5.4 (1994) EPA 6020A

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All approved analytes are listed below:

Metals III		Miscellaneous	
Molybdenum, Total	EPA 200.8, Rev. 5.4 (1994)	Organic Carbon, Total	SM 5310C-2011
Thallium, Total	EPA 200.7, Rev. 4.4 (1994)	Phenols	EPA 420.1 (Rev. 1978)
	EPA 6010C	Specific Conductance	EPA 120.1 (Rev. 1982)
	EPA 6010D	Sulfide (as S)	SM 4500-S2- F-2011
	EPA 6020A	Surfactant (MBAS)	SM 5540C-2011
	EPA 6020B	Turbidity	EPA 180.1, Rev. 2.0 (1993)
	EPA 200.8, Rev. 5.4 (1994)	Nitroaromatics and Isophorone	
Tin, Total	EPA 6020A	2,4-Dinitrotoluene	EPA 625.1
	EPA 200.8, Rev. 5.4 (1994)		EPA 8270D
Titanium, Total	EPA 6020A	2,6-Dinitrotoluene	EPA 625.1
	EPA 200.8, Rev. 5.4 (1994)		EPA 8270D
		Isophorone	EPA 625.1
Mineral			EPA 8270D
Alkalinity	SM 2320B-2011	Nitrobenzene	EPA 625.1
Calcium Hardness	EPA 200.7, Rev. 4.4 (1994)		EPA 8270D
Chloride	EPA 300.0, Rev. 2.1 (1993)	Nitrosoamines	
Fluoride, Total	EPA 300.0, Rev. 2.1 (1993)	N-Nitrosodimethylamine	EPA 625.1
Hardness, Total	EPA 200.7, Rev. 4.4 (1994)		EPA 8270D
Sulfate (as SO4)	EPA 300.0, Rev. 2.1 (1993)	N-Nitrosodi-n-propylamine	EPA 625.1
			EPA 8270D
Miscellaneous		N-Nitrosodiphenylamine	EPA 625.1
Boron, Total	EPA 6020A		EPA 8270D
	EPA 200.8, Rev. 5.4 (1994)	Nutrient	
Bromide	EPA 300.0, Rev. 2.1 (1993)	Ammonia (as N)	SM 4500-NH3 D-2011 or E-2011
Color	SM 2120B-2011		
Cyanide, Total	SM 4500-CN E-2011		
Oil and Grease Total Recoverable (HEM)	EPA 1664A		

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All approved analytes are listed below:*

Polynuclear Aromatics

Anthracene	EPA 625.1 EPA 8270D
Benzo(a)anthracene	EPA 625.1 EPA 8270D
Benzo(a)pyrene	EPA 625.1 EPA 8270D
Benzo(b)fluoranthene	EPA 625.1 EPA 8270D
Benzo(g,h,i)perylene	EPA 625.1 EPA 8270D
Benzo(k)fluoranthene	EPA 625.1 EPA 8270D
Chrysene	EPA 625.1 EPA 8270D
Dibenzo(a,h)anthracene	EPA 625.1 EPA 8270D
Fluoranthene	EPA 625.1 EPA 8270D
Fluorene	EPA 625.1 EPA 8270D
Indeno(1,2,3-cd)pyrene	EPA 625.1 EPA 8270D
Naphthalene	EPA 625.1 EPA 8270D
Phenanthrene	EPA 625.1 EPA 8270D

Polynuclear Aromatics

Pyrene	EPA 625.1 EPA 8270D
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Priority Pollutant Phenols

2,3,4,6 Tetrachlorophenol	EPA 8270D
2,4,5-Trichlorophenol	EPA 625.1 EPA 8270D
2,4,6-Trichlorophenol	EPA 625.1 EPA 8270D
2,4-Dichlorophenol	EPA 625.1 EPA 8270D
2,4-Dimethylphenol	EPA 625.1 EPA 8270D
2,4-Dinitrophenol	EPA 625.1 EPA 8270D
2-Chlorophenol	EPA 625.1 EPA 8270D
2-Methyl-4,6-dinitrophenol	EPA 625.1 EPA 8270D
2-Methylphenol	EPA 625.1 EPA 8270D
2-Nitrophenol	EPA 625.1 EPA 8270D
4-Chloro-3-methylphenol	EPA 625.1 EPA 8270D
4-Methylphenol	EPA 625.1

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Priority Pollutant Phenols

4-Methylphenol	EPA 8270D
4-Nitrophenol	EPA 625.1
	EPA 8270D
Cresols, Total	EPA 8270D
Pentachlorophenol	EPA 625.1
	EPA 8270D
Phenol	EPA 625.1
	EPA 8270D

Semi-Volatile Organics

Dibenzofuran EPA 8270D

Volatile Aromatics

1,2,4-Trichlorobenzene, Volatile	EPA 8260C
1,2,4-Trimethylbenzene	EPA 8260C
1,2-Dichlorobenzene	EPA 8260C
	EPA 624.1
1,3,5-Trimethylbenzene	EPA 8260C
1,3-Dichlorobenzene	EPA 8260C
	EPA 624.1
1,4-Dichlorobenzene	EPA 8260C
	EPA 624.1
2-Chlorotoluene	EPA 8260C
4-Chlorotoluene	EPA 8260C
Benzene	EPA 8260C
	EPA 624.1
Bromobenzene	EPA 8260C
Chlorobenzene	EPA 8260C
	EPA 624.1
Ethyl benzene	EPA 8260C
	EPA 624.1
Isopropylbenzene	EPA 8260C
m/p-Xylenes	EPA 8260C
	EPA 624.1
Naphthalene, Volatile	EPA 8260C
n-Butylbenzene	EPA 8260C

Residue

Settleable Solids	SM 2540 F-2011
Solids, Total	SM 2540 B-2011
Solids, Total Dissolved	SM 2540 C-2011
Solids, Total Suspended	SM 2540 D-2011

Semi-Volatile Organics

1,1'-Biphenyl	EPA 8270D
1,2-Dichlorobenzene, Semi-volatile	EPA 8270D
1,3-Dichlorobenzene, Semi-volatile	EPA 8270D
1,4-Dichlorobenzene, Semi-volatile	EPA 8270D
2-Methylnaphthalene	EPA 8270D
Acetophenone	EPA 8270D
alpha-Terpineol	EPA 625.1
Benzaldehyde	EPA 8270D
Benzoic Acid	EPA 8270D
Benzyl alcohol	EPA 8270D
Caprolactam	EPA 8270D

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All approved analytes are listed below:*

Volatile Aromatics

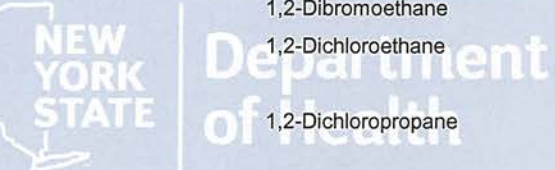
n-Propylbenzene	EPA 8260C
o-Xylene	EPA 8260C EPA 624.1
p-Isopropyltoluene (P-Cymene)	EPA 8260C
sec-Butylbenzene	EPA 8260C
Styrene	EPA 8260C EPA 624.1
tert-Butylbenzene	EPA 8260C
Toluene	EPA 8260C EPA 624.1
Total Xylenes	EPA 8260C EPA 624.1

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 8260C
1,1,1-Trichloroethane	EPA 8260C EPA 624.1
1,1,2,2-Tetrachloroethane	EPA 8260C EPA 624.1
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260C
1,1,2-Trichloroethane	EPA 8260C EPA 624.1
1,1-Dichloroethane	EPA 8260C EPA 624.1
1,1-Dichloroethene	EPA 8260C EPA 624.1

Volatile Halocarbons

1,1-Dichloropropene	EPA 8260C
1,2,3-Trichloropropane	EPA 8260C
1,2-Dibromo-3-chloropropane	EPA 8260C
1,2-Dibromoethane	EPA 8260C
1,2-Dichloroethane	EPA 8260C
1,2-Dichloropropane	EPA 8260C EPA 624.1
1,3-Dichloropropane	EPA 8260C
2,2-Dichloropropane	EPA 8260C
2-Chloroethylvinyl ether	EPA 8260C EPA 624.1
Bromochloromethane	EPA 8260C
Bromodichloromethane	EPA 8260C EPA 624.1
Bromoform	EPA 8260C EPA 624.1
Bromomethane	EPA 8260C EPA 624.1
Carbon tetrachloride	EPA 8260C EPA 624.1
Chloroethane	EPA 8260C EPA 624.1
Chloroform	EPA 8260C EPA 624.1
Chloromethane	EPA 8260C



Serial No.: 61204

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2021
Issued April 01, 2020

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. ROBERT Q. BRADLEY
YORK ANALYTICAL LABORATORIES INC
120 RESEARCH DRIVE
STRATFORD, CT 06615

NY Lab Id No: 10854

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2003) for the category
ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:*

Volatile Halocarbons

Chloromethane	EPA 624.1
cis-1,2-Dichloroethene	EPA 8260C
	EPA 624.1
cis-1,3-Dichloropropene	EPA 8260C
	EPA 624.1
Dibromochloromethane	EPA 8260C
	EPA 624.1
Dibromomethane	EPA 8260C
Dichlorodifluoromethane	EPA 8260C
	EPA 624.1
Hexachlorobutadiene, Volatile	EPA 8260C
Methylene chloride	EPA 8260C
	EPA 624.1
Tetrachloroethene	EPA 8260C
	EPA 624.1
trans-1,2-Dichloroethene	EPA 8260C
	EPA 624.1
trans-1,3-Dichloropropene	EPA 8260C
	EPA 624.1
trans-1,4-Dichloro-2-butene	EPA 8260C
Trichloroethene	EPA 8260C
	EPA 624.1
Trichlorofluoromethane	EPA 8260C
	EPA 624.1
Vinyl chloride	EPA 8260C
	EPA 624.1

Volatiles Organics

1,4-Dioxane	EPA 8260C
	EPA 8270D SIM
2-Butanone (Methylethyl ketone)	EPA 8260C
2-Hexanone	EPA 8260C
4-Methyl-2-Pentanone	EPA 8260C
Acetone	EPA 8260C
Carbon Disulfide	EPA 8260C
Cyclohexane	EPA 8260C
Methyl acetate	EPA 8260C
Methyl cyclohexane	EPA 8260C
Vinyl acetate	EPA 8260C

Sample Preparation Methods

SM 4500-P B(5)-2011
EPA 5030C
SM 4500-CN B-2011 and C-201
EPA 3015A
EPA 3010A
EPA 3005A
EPA 3510C
SM 4500-N Org B-2011 or C-20

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Fuel Additives

Methyl tert-butyl ether EPA 524.2
Naphthalene EPA 524.2

Metals I

Arsenic, Total EPA 200.8 Rev. 5.4
Barium, Total EPA 200.7 Rev. 4.4
 EPA 200.8 Rev. 5.4
Cadmium, Total EPA 200.7 Rev. 4.4
 EPA 200.8 Rev. 5.4
Chromium, Total EPA 200.7 Rev. 4.4
 EPA 200.8 Rev. 5.4
Copper, Total EPA 200.7 Rev. 4.4
 EPA 200.8 Rev. 5.4
Iron, Total EPA 200.7 Rev. 4.4
Lead, Total EPA 200.8 Rev. 5.4
Manganese, Total EPA 200.7 Rev. 4.4
 EPA 200.8 Rev. 5.4
Mercury, Total EPA 245.1 Rev. 3.0
Selenium, Total EPA 200.8 Rev. 5.4
Silver, Total EPA 200.7 Rev. 4.4
 EPA 200.8 Rev. 5.4
Zinc, Total EPA 200.7 Rev. 4.4
 EPA 200.8 Rev. 5.4

Metals II

Aluminum, Total EPA 200.7 Rev. 4.4
Antimony, Total EPA 200.8 Rev. 5.4

Metals II

Beryllium, Total EPA 200.7 Rev. 4.4
 EPA 200.8 Rev. 5.4
Molybdenum, Total EPA 200.8 Rev. 5.4
Nickel, Total EPA 200.7 Rev. 4.4
 EPA 200.8 Rev. 5.4
Thallium, Total EPA 200.8 Rev. 5.4
Vanadium, Total EPA 200.7 Rev. 4.4
 EPA 200.8 Rev. 5.4

Metals III

Calcium, Total EPA 200.7 Rev. 4.4
Magnesium, Total EPA 200.7 Rev. 4.4
Potassium, Total EPA 200.7 Rev. 4.4
Sodium, Total EPA 200.7 Rev. 4.4

Miscellaneous

Turbidity EPA 180.1 Rev. 2.0

Non-Metals

Alkalinity SM 21-23 2320B (-97)
Calcium Hardness EPA 200.7 Rev. 4.4
Chloride EPA 300.0 Rev. 2.1
Color SM 21-23 2120B (-01)
Fluoride, Total EPA 300.0 Rev. 2.1
Orthophosphate (as P) EPA 300.0 Rev. 2.1
 SM 19, 21-23 4500-P E (-99)
Solids, Total Dissolved SM 21-23 2540C (-97)

Serial No.: 61203

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National Environmental Laboratory Accreditation Conference Standards (2003) for the category
ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:

Non-Metals

Specific Conductance EPA 120.1 Rev. 1982
Sulfate (as SO4) EPA 300.0 Rev. 2.1

Trihalomethanes

Bromodichloromethane EPA 524.2
Bromoform EPA 524.2
Chloroform EPA 524.2
Dibromochloromethane EPA 524.2

Volatile Aromatics

1,2,3-Trichlorobenzene EPA 524.2
1,2,4-Trichlorobenzene EPA 524.2
1,2,4-Trimethylbenzene EPA 524.2
1,2-Dichlorobenzene EPA 524.2
1,3,5-Trimethylbenzene EPA 524.2
1,3-Dichlorobenzene EPA 524.2
1,4-Dichlorobenzene EPA 524.2
2-Chlorotoluene EPA 524.2
4-Chlorotoluene EPA 524.2
Benzene EPA 524.2
Bromobenzene EPA 524.2
Chlorobenzene EPA 524.2
Ethyl benzene EPA 524.2
Hexachlorobutadiene EPA 524.2
Isopropylbenzene EPA 524.2
n-Butylbenzene EPA 524.2
n-Propylbenzene EPA 524.2

Volatile Aromatics

p-Isopropyltoluene (P-Cymene) EPA 524.2
sec-Butylbenzene EPA 524.2
Styrene EPA 524.2
tert-Butylbenzene EPA 524.2
Toluene EPA 524.2
Total Xylenes EPA 524.2

Volatile Halocarbons

1,1,1,2-Tetrachloroethane EPA 524.2
1,1,1-Trichloroethane EPA 524.2
1,1,2,2-Tetrachloroethane EPA 524.2
1,1,2-Trichloroethane EPA 524.2
1,1-Dichloroethane EPA 524.2
1,1-Dichloroethene EPA 524.2
1,1-Dichloropropene EPA 524.2
1,2,3-Trichloropropane EPA 524.2
1,2-Dichloroethane EPA 524.2
1,2-Dichloropropane EPA 524.2
1,3-Dichloropropane EPA 524.2
2,2-Dichloropropane EPA 524.2
Bromochloromethane EPA 524.2
Bromomethane EPA 524.2
Carbon tetrachloride EPA 524.2
Chloroethane EPA 524.2
Chloromethane EPA 524.2
cis-1,2-Dichloroethene EPA 524.2



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ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:*

Volatile Halocarbons

cis-1,3-Dichloropropene	EPA 524.2
Dibromomethane	EPA 524.2
Dichlorodifluoromethane	EPA 524.2
Methylene chloride	EPA 524.2
Tetrachloroethene	EPA 524.2
trans-1,2-Dichloroethene	EPA 524.2
trans-1,3-Dichloropropene	EPA 524.2
Trichloroethene	EPA 524.2
Trichlorofluoromethane	EPA 524.2
Vinyl chloride	EPA 524.2



Department
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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Acrylates

Acrolein (Propenal)	EPA 8260C
Acrylonitrile	EPA 8260C
Methyl methacrylate	EPA 8260C

Amines

1,2-Diphenylhydrazine	EPA 8270D
2-Nitroaniline	EPA 8270D
3-Nitroaniline	EPA 8270D
4-Chloroaniline	EPA 8270D
4-Nitroaniline	EPA 8270D
Aniline	EPA 8270D
Carbazole	EPA 8270D
Diphenylamine	EPA 8270D

Benzidines

3,3'-Dichlorobenzidine	EPA 8270D
Benzidine	EPA 8270D

Characteristic Testing

Corrosivity (pH)	EPA 9045D
Free Liquids	EPA 9095B
Ignitability	EPA 1010A
Synthetic Precipitation Leaching Proc.	EPA 1312
TCLP	EPA 1311

Chlorinated Hydrocarbon Pesticides

4,4'-DDD	EPA 8081B
4,4'-DDE	EPA 8081B

Chlorinated Hydrocarbon Pesticides

4,4'-DDT	EPA 8081B
Aldrin	EPA 8081B
alpha-BHC	EPA 8081B
alpha-Chlordane	EPA 8081B
Atrazine	EPA 8270D
beta-BHC	EPA 8081B
Chlordane Total	EPA 8081B
delta-BHC	EPA 8081B
Dieldrin	EPA 8081B
Endosulfan I	EPA 8081B
Endosulfan II	EPA 8081B
Endosulfan sulfate	EPA 8081B
Endrin	EPA 8081B
Endrin aldehyde	EPA 8081B
Endrin Ketone	EPA 8081B
gamma-Chlordane	EPA 8081B
Heptachlor	EPA 8081B
Heptachlor epoxide	EPA 8081B
Lindane	EPA 8081B
Methoxychlor	EPA 8081B
Mirex	EPA 8081B
Toxaphene	EPA 8081B

Chlorinated Hydrocarbons

1,2,3-Trichlorobenzene	EPA 8260C
1,2,4,5-Tetrachlorobenzene	EPA 8270D

Serial No.: 61205

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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Chlorinated Hydrocarbons

1,2,4-Trichlorobenzene	EPA 8270D
2-Chloronaphthalene	EPA 8270D
Hexachlorobenzene	EPA 8270D
Hexachlorobutadiene	EPA 8270D
Hexachlorocyclopentadiene	EPA 8270D
Hexachloroethane	EPA 8270D

Chlorophenoxy Acid Pesticides

2,4,5-T	EPA 8151A
2,4,5-TP (Silvex)	EPA 8151A
2,4-D	EPA 8151A
Dicamba	EPA 8151A

Haloethers

2,2'-Oxybis(1-chloropropane)	EPA 8270D
4-Bromophenylphenyl ether	EPA 8270D
4-Chlorophenylphenyl ether	EPA 8270D
Bis(2-chloroethoxy)methane	EPA 8270D
Bis(2-chloroethyl)ether	EPA 8270D

Metals I

Barium, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
	EPA 6020B
Cadmium, Total	EPA 6010C
	EPA 6010D

Metals I

Cadmium, Total	EPA 6020A
	EPA 6020B
Calcium, Total	EPA 6010C
	EPA 6010D
Chromium, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
	EPA 6020B
Copper, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
	EPA 6020B
Iron, Total	EPA 6010C
	EPA 6010D
Lead, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
	EPA 6020B
Magnesium, Total	EPA 6010C
	EPA 6010D
Manganese, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
	EPA 6020B
Nickel, Total	EPA 6010C
	EPA 6010D



**Department
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All approved analytes are listed below:*

Metals I

Nickel, Total	EPA 6020A
	EPA 6020B
Potassium, Total	EPA 6010C
	EPA 6010D
Silver, Total	EPA 6010C
	EPA 6010D
Sodium, Total	EPA 6010C
	EPA 6010D

Metals II

Chromium VI	EPA 7196A
Mercury, Total	EPA 7471B
	EPA 7473
Selenium, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
	EPA 6020B
Vanadium, Total	EPA 6010C
	EPA 6010D
	EPA 6020A

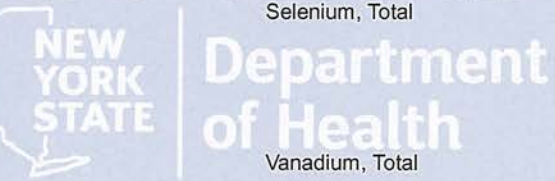
Metals II

Aluminum, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
	EPA 6020B
Antimony, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
	EPA 6020B
Arsenic, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
	EPA 6020B
Beryllium, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
	EPA 6020B

Zinc, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
	EPA 6020B

Metals III

Cobalt, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
	EPA 6020B
Molybdenum, Total	EPA 6020A
Thallium, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
	EPA 6020B



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All approved analytes are listed below:*

Metals III

Tin, Total	EPA 6020A
	EPA 6020B
Titanium, Total	EPA 6020A

Miscellaneous

Boron, Total	EPA 6020A
	EPA 6020B
Cyanide, Total	EPA 9014
Extractable Organic Halides	EPA 9023

Nitroaromatics and Isophorone

2,4-Dinitrotoluene	EPA 8270D
2,6-Dinitrotoluene	EPA 8270D
Isophorone	EPA 8270D
Nitrobenzene	EPA 8270D
Pyridine	EPA 8270D

Nitrosoamines

N-Nitrosodimethylamine	EPA 8270D
N-Nitrosodi-n-propylamine	EPA 8270D
N-Nitrosodiphenylamine	EPA 8270D

Organophosphate Pesticides

Parathion ethyl	EPA 8270D
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Petroleum Hydrocarbons

Diesel Range Organics	EPA 8015D
Gasoline Range Organics	EPA 8015D

Phthalate Esters

Benzyl butyl phthalate	EPA 8270D
Bis(2-ethylhexyl) phthalate	EPA 8270D
Diethyl phthalate	EPA 8270D
Dimethyl phthalate	EPA 8270D
Di-n-butyl phthalate	EPA 8270D
Di-n-octyl phthalate	EPA 8270D

Polychlorinated Biphenyls

Aroclor 1016 (PCB-1016)	EPA 8082A
Aroclor 1016 (PCB-1016) in Oil	EPA 8082A
Aroclor 1221 (PCB-1221)	EPA 8082A
Aroclor 1221 (PCB-1221) in Oil	EPA 8082A
Aroclor 1232 (PCB-1232)	EPA 8082A
Aroclor 1232 (PCB-1232) in Oil	EPA 8082A
Aroclor 1242 (PCB-1242)	EPA 8082A
Aroclor 1242 (PCB-1242) in Oil	EPA 8082A
Aroclor 1248 (PCB-1248)	EPA 8082A
Aroclor 1248 (PCB-1248) in Oil	EPA 8082A
Aroclor 1254 (PCB-1254)	EPA 8082A
Aroclor 1254 (PCB-1254) in Oil	EPA 8082A
Aroclor 1260 (PCB-1260)	EPA 8082A
Aroclor 1260 (PCB-1260) in Oil	EPA 8082A
Aroclor 1262 (PCB-1262)	EPA 8082A
Aroclor 1262 (PCB-1262) in Oil	EPA 8082A
Aroclor 1268 (PCB-1268)	EPA 8082A
Aroclor 1268 (PCB-1268) in Oil	EPA 8082A

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Polynuclear Aromatic Hydrocarbons

Acenaphthene	EPA 8270D
Acenaphthylene	EPA 8270D
Anthracene	EPA 8270D
Benzo(a)anthracene	EPA 8270D
Benzo(a)pyrene	EPA 8270D
Benzo(b)fluoranthene	EPA 8270D
Benzo(g,h,i)perylene	EPA 8270D
Benzo(k)fluoranthene	EPA 8270D
Chrysene	EPA 8270D
Dibenzo(a,h)anthracene	EPA 8270D
Fluoranthene	EPA 8270D
Fluorene	EPA 8270D
Indeno(1,2,3-cd)pyrene	EPA 8270D
Naphthalene	EPA 8270D
Phenanthrene	EPA 8270D
Pyrene	EPA 8270D

Priority Pollutant Phenols

2,3,4,6 Tetrachlorophenol	EPA 8270D
2,4,5-Trichlorophenol	EPA 8270D
2,4,6-Trichlorophenol	EPA 8270D
2,4-Dichlorophenol	EPA 8270D
2,4-Dimethylphenol	EPA 8270D
2,4-Dinitrophenol	EPA 8270D
2-Chlorophenol	EPA 8270D
2-Methyl-4,6-dinitrophenol	EPA 8270D

Priority Pollutant Phenols

2-Methylphenol	EPA 8270D
2-Nitrophenol	EPA 8270D
4-Chloro-3-methylphenol	EPA 8270D
4-Methylphenol	EPA 8270D
4-Nitrophenol	EPA 8270D
Pentachlorophenol	EPA 8270D
Phenol	EPA 8270D

Semi-Volatile Organics

1,1'-Biphenyl	EPA 8270D
1,2-Dichlorobenzene, Semi-volatile	EPA 8270D
1,3-Dichlorobenzene, Semi-volatile	EPA 8270D
1,4-Dichlorobenzene, Semi-volatile	EPA 8270D
2-Methylnaphthalene	EPA 8270D
Acetophenone	EPA 8270D
Benzaldehyde	EPA 8270D
Benzoic Acid	EPA 8270D
Benzyl alcohol	EPA 8270D
Caprolactam	EPA 8270D
Dibenzofuran	EPA 8270D

Volatile Aromatics

1,2,4-Trichlorobenzene, Volatile	EPA 8260C
1,2,4-Trimethylbenzene	EPA 8260C
1,2-Dichlorobenzene	EPA 8260C
1,3,5-Trimethylbenzene	EPA 8260C
1,3-Dichlorobenzene	EPA 8260C

Serial No.: 61205

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2021
Issued April 01, 2020

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. ROBERT Q. BRADLEY
YORK ANALYTICAL LABORATORIES INC
120 RESEARCH DRIVE
STRATFORD, CT 06615

NY Lab Id No: 10854

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2003) for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Volatile Aromatics

1,4-Dichlorobenzene	EPA 8260C
2-Chlorotoluene	EPA 8260C
4-Chlorotoluene	EPA 8260C
Benzene	EPA 8260C
Bromobenzene	EPA 8260C
Chlorobenzene	EPA 8260C
Ethyl benzene	EPA 8260C
Isopropylbenzene	EPA 8260C
m/p-Xylenes	EPA 8260C
Naphthalene, Volatile	EPA 8260C
n-Butylbenzene	EPA 8260C
n-Propylbenzene	EPA 8260C
o-Xylene	EPA 8260C
p-Isopropyltoluene (P-Cymene)	EPA 8260C
sec-Butylbenzene	EPA 8260C
Styrene	EPA 8260C
tert-Butylbenzene	EPA 8260C
Toluene	EPA 8260C
Total Xylenes	EPA 8260C

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 8260C
1,1,1-Trichloroethane	EPA 8260C
1,1,2,2-Tetrachloroethane	EPA 8260C
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260C
1,1,2-Trichloroethane	EPA 8260C

Volatile Halocarbons

1,1-Dichloroethane	EPA 8260C
1,1-Dichloroethene	EPA 8260C
1,1-Dichloropropene	EPA 8260C
1,2,3-Trichloropropane	EPA 8260C
1,2-Dibromo-3-chloropropane	EPA 8260C
1,2-Dibromoethane	EPA 8260C
1,2-Dichloroethane	EPA 8260C
1,2-Dichloropropane	EPA 8260C
1,3-Dichloropropane	EPA 8260C
2,2-Dichloropropane	EPA 8260C
2-Chloroethylvinyl ether	EPA 8260C
Bromochloromethane	EPA 8260C
Bromodichloromethane	EPA 8260C
Bromoform	EPA 8260C
Bromomethane	EPA 8260C
Carbon tetrachloride	EPA 8260C
Chloroethane	EPA 8260C
Chloroform	EPA 8260C
Chloromethane	EPA 8260C
cis-1,2-Dichloroethene	EPA 8260C
cis-1,3-Dichloropropene	EPA 8260C
Dibromochloromethane	EPA 8260C
Dibromomethane	EPA 8260C
Dichlorodifluoromethane	EPA 8260C
Hexachlorobutadiene, Volatile	EPA 8260C
Methylene chloride	EPA 8260C

Serial No.: 61205

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120 RESEARCH DRIVE
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NY Lab Id No: 10854

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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Volatile Halocarbons

Tetrachloroethene	EPA 8260C
trans-1,2-Dichloroethene	EPA 8260C
trans-1,3-Dichloropropene	EPA 8260C
Trichloroethene	EPA 8260C
Trichlorofluoromethane	EPA 8260C
Vinyl chloride	EPA 8260C

Sample Preparation Methods

EPA 3050B
EPA 3550C
EPA 3546
EPA 3545A
EPA 3060A
EPA 9010C

Volatile Organics

1,4-Dioxane	EPA 8260C
	EPA 8270D SIM
2-Butanone (Methylethyl ketone)	EPA 8260C
2-Hexanone	EPA 8260C
4-Methyl-2-Pentanone	EPA 8260C
Acetone	EPA 8260C
Carbon Disulfide	EPA 8260C
Cyclohexane	EPA 8260C
Methyl acetate	EPA 8260C
Methyl cyclohexane	EPA 8260C
Methyl tert-butyl ether	EPA 8260C
tert-butyl alcohol	EPA 8260C
Vinyl acetate	EPA 8260C

Sample Preparation Methods

EPA 5035A-L
EPA 5035A-H
EPA 3580A
EPA 3010A

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NY Lab Id No: 10854

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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved subcategories and/or analytes are listed below:*

Miscellaneous

Lead in Dust Wipes	EPA 6010C
Lead in Paint	EPA 6010C

Sample Preparation Methods

EPA 3050B



Department
of Health

Serial No.: 61206

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



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MR. KRZYSZTOF TRAFALSKI
YORK ANALYTICAL LABORATORIES, INC. (II)
132-02 89TH AVENUE SUITE 217
RICHMOND HILL, NY 11418

NY Lab Id No: 12058

is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2003) for the category
ENVIRONMENTAL ANALYSES AIR AND EMISSIONS
All approved analytes are listed below:

Acrylates

Acrylonitrile EPA TO-15
Methyl methacrylate EPA TO-15

Chlorinated Hydrocarbons

1,2,4-Trichlorobenzene EPA TO-15
Hexachlorobutadiene EPA TO-15
Hexachloroethane EPA TO-15

Purgeable Aromatics

1,2,4-Trimethylbenzene EPA TO-15
1,2-Dichlorobenzene EPA TO-15
1,3,5-Trimethylbenzene EPA TO-15
1,3-Dichlorobenzene EPA TO-15
1,4-Dichlorobenzene EPA TO-15
Benzene EPA TO-15
Chlorobenzene EPA TO-15
Ethyl benzene EPA TO-15
Isopropylbenzene EPA TO-15
m/p-Xylenes EPA TO-15
o-Xylene EPA TO-15
Styrene EPA TO-15
Toluene EPA TO-15
Total Xylenes EPA TO-15

Purgeable Halocarbons

1,1,1-Trichloroethane EPA TO-15
1,1,2,2-Tetrachloroethane EPA TO-15

Purgeable Halocarbons

1,1,2-Trichloro-1,2,2-Trifluoroethane EPA TO-15
1,1,2-Trichloroethane EPA TO-15
1,1-Dichloroethane EPA TO-15
1,1-Dichloroethene EPA TO-15
1,2-Dibromoethane EPA TO-15
1,2-Dichloroethane EPA TO-15
1,2-Dichloropropane EPA TO-15
3-Chloropropene (Allyl chloride) EPA TO-15
Bromodichloromethane EPA TO-15
Bromoform EPA TO-15
Bromomethane EPA TO-15
Carbon tetrachloride EPA TO-15
Chloroethane EPA TO-15
Chloroform EPA TO-15
Chloromethane EPA TO-15
cis-1,2-Dichloroethene EPA TO-15
cis-1,3-Dichloropropene EPA TO-15
Dibromochloromethane EPA TO-15
Dichlorodifluoromethane EPA TO-15
Methylene chloride EPA TO-15
Tetrachloroethene EPA TO-15
trans-1,2-Dichloroethene EPA TO-15
trans-1,3-Dichloropropene EPA TO-15
Trichloroethene EPA TO-15
Trichlorofluoromethane EPA TO-15
Vinyl bromide EPA TO-15

Serial No.: 61730

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



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MR. KRZYSZTOF TRAFALSKI
YORK ANALYTICAL LABORATORIES, INC. (II)
132-02 89TH AVENUE SUITE 217
RICHMOND HILL, NY 11418

NY Lab Id No: 12058

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National Environmental Laboratory Accreditation Conference Standards (2003) for the category
ENVIRONMENTAL ANALYSES AIR AND EMISSIONS
All approved analytes are listed below:*

Purgeable Halocarbons

Vinyl chloride EPA TO-15

Volatile Chlorinated Organics

Benzyl chloride EPA TO-15

Volatile Organics

1,2-Dichlorotetrafluoroethane EPA TO-15

1,3-Butadiene EPA TO-15

1,4-Dioxane EPA TO-15

2-Butanone (Methylethyl ketone) EPA TO-15

4-Methyl-2-Pentanone EPA TO-15

Acetone EPA TO-15

Carbon Disulfide EPA TO-15

Cyclohexane EPA TO-15

Hexane EPA TO-15

Isopropanol EPA TO-15

Methyl tert-butyl ether EPA TO-15

n-Heptane EPA TO-15

Vinyl acetate EPA TO-15



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WADSWORTH CENTER**



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RICHMOND HILL, NY 11418

NY Lab Id No: 12058

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National Environmental Laboratory Accreditation Conference Standards (2003) for the category
ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:*

Acrylates

Acrolein (Propenal)	EPA 8260C
Acrylonitrile	EPA 8260C
Methyl methacrylate	EPA 8260C

Chlorinated Hydrocarbons

1,2,3-Trichlorobenzene	EPA 8260C
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Fuel Oxygenates

Di-isopropyl ether	EPA 8260C
Ethanol	EPA 8260C
Methyl tert-butyl ether	EPA 8260C
tert-amyl alcohol	EPA 8260C
tert-amyl methyl ether (TAME)	EPA 8260C
tert-butyl alcohol	EPA 8260C
tert-butyl ethyl ether (ETBE)	EPA 8260C

Volatile Aromatics

1,2,4-Trichlorobenzene, Volatile	EPA 8260C
1,2,4-Trimethylbenzene	EPA 8260C
1,2-Dichlorobenzene	EPA 8260C
1,3,5-Trimethylbenzene	EPA 8260C
1,3-Dichlorobenzene	EPA 8260C
1,4-Dichlorobenzene	EPA 8260C
2-Chlorotoluene	EPA 8260C
4-Chlorotoluene	EPA 8260C
Benzene	EPA 8260C
Bromobenzene	EPA 8260C

Volatile Aromatics

Chlorobenzene	EPA 8260C
Ethyl benzene	EPA 8260C
Isopropylbenzene	EPA 8260C
m/p-Xylenes	EPA 8260C
Naphthalene, Volatile	EPA 8260C
n-Butylbenzene	EPA 8260C
n-Propylbenzene	EPA 8260C
o-Xylene	EPA 8260C
p-Isopropyltoluene (P-Cymene)	EPA 8260C
sec-Butylbenzene	EPA 8260C
Styrene	EPA 8260C
tert-Butylbenzene	EPA 8260C
Toluene	EPA 8260C
Total Xylenes	EPA 8260C

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 8260C
1,1,1-Trichloroethane	EPA 8260C
1,1,2,2-Tetrachloroethane	EPA 8260C
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260C
1,1,2-Trichloroethane	EPA 8260C
1,1-Dichloroethane	EPA 8260C
1,1-Dichloroethene	EPA 8260C
1,1-Dichloropropene	EPA 8260C
1,2,3-Trichloropropane	EPA 8260C
1,2-Dibromo-3-chloropropane	EPA 8260C

Serial No.: 61728

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



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CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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MR. KRZYSZTOF TRAFALSKI
YORK ANALYTICAL LABORATORIES, INC. (II)
132-02 89TH AVENUE SUITE 217
RICHMOND HILL, NY 11418

NY Lab Id No: 12058

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2003) for the category
ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:*

Volatile Halocarbons

1,2-Dibromoethane	EPA 8260C
1,2-Dichloroethane	EPA 8260C
1,2-Dichloropropane	EPA 8260C
1,3-Dichloropropane	EPA 8260C
2,2-Dichloropropane	EPA 8260C
2-Chloroethylvinyl ether	EPA 8260C
Bromochloromethane	EPA 8260C
Bromodichloromethane	EPA 8260C
Bromoform	EPA 8260C
Bromomethane	EPA 8260C
Carbon tetrachloride	EPA 8260C
Chloroethane	EPA 8260C
Chloroform	EPA 8260C
Chloromethane	EPA 8260C
cis-1,2-Dichloroethene	EPA 8260C
cis-1,3-Dichloropropene	EPA 8260C
Dibromochloromethane	EPA 8260C
Dibromomethane	EPA 8260C
Dichlorodifluoromethane	EPA 8260C
Hexachlorobutadiene, Volatile	EPA 8260C
Methylene chloride	EPA 8260C
Tetrachloroethene	EPA 8260C
trans-1,2-Dichloroethene	EPA 8260C
trans-1,3-Dichloropropene	EPA 8260C
trans-1,4-Dichloro-2-butene	EPA 8260C
Trichloroethene	EPA 8260C

Volatile Halocarbons

Trichlorofluoromethane	EPA 8260C
Vinyl chloride	EPA 8260C

Volatiles Organics

1,4-Dioxane	EPA 8260C
2-Butanone (Methylethyl ketone)	EPA 8260C
2-Hexanone	EPA 8260C
4-Methyl-2-Pentanone	EPA 8260C
Acetone	EPA 8260C
Carbon Disulfide	EPA 8260C
Cyclohexane	EPA 8260C
Methyl acetate	EPA 8260C
Methyl cyclohexane	EPA 8260C
Vinyl acetate	EPA 8260C

Sample Preparation Methods

EPA 5030C

Serial No.: 61728

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MR. KRZYSZTOF TRAFALSKI
YORK ANALYTICAL LABORATORIES, INC. (II)
132-02 89TH AVENUE SUITE 217
RICHMOND HILL, NY 11418

NY Lab Id No: 12058

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National Environmental Laboratory Accreditation Conference Standards (2003) for the category
ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:*

Perfluorinated Alkyl Acids

Perfluorooctanesulfonic acid (PFOS)	EPA 537
Perfluorooctanoic acid (PFOA)	EPA 537



Department
of Health

Serial No.: 61727

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YORK ANALYTICAL LABORATORIES, INC. (II)
132-02 89TH AVENUE SUITE 217
RICHMOND HILL, NY 11418

NY Lab Id No: 12058

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National Environmental Laboratory Accreditation Conference Standards (2003) for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Acrylates

Acrolein (Propenal)	EPA 8260C
Acrylonitrile	EPA 8260C
Methyl methacrylate	EPA 8260C

Chlorinated Hydrocarbons

1,2,3-Trichlorobenzene	EPA 8260C
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Volatile Aromatics

1,2,4-Trichlorobenzene, Volatile	EPA 8260C
1,2,4-Trimethylbenzene	EPA 8260C
1,2-Dichlorobenzene	EPA 8260C
1,3,5-Trimethylbenzene	EPA 8260C
1,3-Dichlorobenzene	EPA 8260C
1,4-Dichlorobenzene	EPA 8260C
2-Chlorotoluene	EPA 8260C
4-Chlorotoluene	EPA 8260C
Benzene	EPA 8260C
Bromobenzene	EPA 8260C
Chlorobenzene	EPA 8260C
Ethyl benzene	EPA 8260C
Isopropylbenzene	EPA 8260C
m/p-Xylenes	EPA 8260C
Naphthalene, Volatile	EPA 8260C
n-Butylbenzene	EPA 8260C
n-Propylbenzene	EPA 8260C
o-Xylene	EPA 8260C
p-Isopropyltoluene (P-Cymene)	EPA 8260C

Volatile Aromatics

sec-Butylbenzene	EPA 8260C
Styrene	EPA 8260C
tert-Butylbenzene	EPA 8260C
Toluene	EPA 8260C
Total Xylenes	EPA 8260C

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 8260C
1,1,1-Trichloroethane	EPA 8260C
1,1,2,2-Tetrachloroethane	EPA 8260C
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260C
1,1,2-Trichloroethane	EPA 8260C
1,1-Dichloroethane	EPA 8260C
1,1-Dichloroethene	EPA 8260C
1,1-Dichloropropene	EPA 8260C
1,2,3-Trichloropropane	EPA 8260C
1,2-Dibromo-3-chloropropane	EPA 8260C
1,2-Dibromoethane	EPA 8260C
1,2-Dichloroethane	EPA 8260C
1,2-Dichloropropane	EPA 8260C
1,3-Dichloropropane	EPA 8260C
2,2-Dichloropropane	EPA 8260C
2-Chloroethylvinyl ether	EPA 8260C
Bromochloromethane	EPA 8260C
Bromodichloromethane	EPA 8260C
Bromoform	EPA 8260C

Serial No.: 61729

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132-02 89TH AVENUE SUITE 217
RICHMOND HILL, NY 11418

NY Lab Id No: 12058

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National Environmental Laboratory Accreditation Conference Standards (2003) for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE*

All approved analytes are listed below:

Volatile Halocarbons

Bromomethane	EPA 8260C
Carbon tetrachloride	EPA 8260C
Chloroethane	EPA 8260C
Chloroform	EPA 8260C
Chloromethane	EPA 8260C
cis-1,2-Dichloroethene	EPA 8260C
cis-1,3-Dichloropropene	EPA 8260C
Dibromochloromethane	EPA 8260C
Dibromomethane	EPA 8260C
Dichlorodifluoromethane	EPA 8260C
Hexachlorobutadiene, Volatile	EPA 8260C
Methylene chloride	EPA 8260C
Tetrachloroethene	EPA 8260C
trans-1,2-Dichloroethene	EPA 8260C
trans-1,3-Dichloropropene	EPA 8260C
Trichloroethene	EPA 8260C
Trichlorofluoromethane	EPA 8260C
Vinyl chloride	EPA 8260C

Volatile Organics

1,4-Dioxane	EPA 8260C
2-Butanone (Methylethyl ketone)	EPA 8260C
2-Hexanone	EPA 8260C
4-Methyl-2-Pentanone	EPA 8260C
Acetone	EPA 8260C
Carbon Disulfide	EPA 8260C

Volatile Organics

Cyclohexane	EPA 8260C
Methyl acetate	EPA 8260C
Methyl cyclohexane	EPA 8260C
Methyl tert-butyl ether	EPA 8260C
tert-butyl alcohol	EPA 8260C
Vinyl acetate	EPA 8260C

Sample Preparation Methods

EPA 5035A-L
EPA 5035A-H



Department
of Health

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