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INDUSTRIAL HYGIENE SERVICES

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FIRM PROFILE



PWGC: CLIENT DRIVEN SOLUTIONS

MEET PWGC

PWGC was founded by Paul Grosser, PhD, PE, PG, a thought leader who recognized the need for a multi-disciplined engineering and environmental consulting firm that offered a diverse range of services to meet market demand regionally and nationally. Based in Bohemia, NY, PWGC has offices in New York City, Syracuse, Saratoga Springs and Connecticut.

PWGC serves the Northeastern United States and has established an industry recognized reputation for innovative problem solving and providing quality services to municipal, educational, private, public and federal clients. We are dedicated to providing quality products and timely services that result in practical solutions for its clients.

PWGC has a multi-disciplined staff of more than 70 professionals. Our strength lies with these licensed professional engineers, geologists and hydrogeologists, LEED accredited professionals and environmental compliance specialists, which gives PWGC a wealth of experience key to helping bring your project from idea to reality.

CHOOSE PWGC

Whether your objectives are planning, design, redevelopment, remediation or resiliency, PWGC's services are innovative and economical. PWGC is committed to client goals and our dynamic team of professionals provide innovation and flexibility to deliver customized solutions to projects regardless of size, complexity or duration.

THE PWGC DIFFERENCE

What sets us apart is our customized approach to each project, a dedicated, responsive team, our rapport with regulatory agencies and our exceptional project management. PWGC's assets that translate into additional value for you include the following:

- Strong working relationships with key regulatory sector players
- Specialists in regulatory requirements to facilitate quicker approvals
- Highly responsive to budget & time constraints to get your project on line faster
- Project and quality control monitoring to exceed your project needs
- More than 70 dedicated professionals to provide a wide array of services
- Strong understanding environmental compliance standards

Make PWGC's quality environmental consulting and engineering solutions work for you.



PWGC QUICK FACTS

Corporate

- Founded & Incorporated: 1990
- SAM/SBA Registered
- Small Business
- DUNS # 798730966
- Federal ID: 11-3612196

Offices

- Bohemia, NY
- New York, NY
- Saratoga Springs, NY
- Syracuse, NY
- Shelton, CT

Qualifications

- LICENSES - Engineer, Geologist, LSP, NC, NY, NJ, PA, MD, IN, NH, FL, WA
- LEED-AP
- Envision

Service Codes

NAICS

- 562910 Environmental Remediation
- 541330 Engineering
- 541620 Environmental Consulting
- 562998 Waste Management Services
- 541370 GIS Base Mapping
- 237130 Green Services

SIC

- 87489905 Environmental Consulting
- 8711 Engineering Services



SUMMARY LIST OF SERVICES

SEQRA Consulting and Planning Services

- Administration of the SEQRA Process
- Type II Opinion Letters
- Coordinated Review
- Environmental Assessment Forms
- Scoping Documents
- Environmental Impact Statements
- Determinations of Significance
- Findings Statements
- Notices and Assistance with Resolutions
- Land Use and Zoning Assessments

Environmental Services

- Contract Administration
- Petroleum & Chemical Spill Investigation & Remediation
- Remedial Alternative Assessment & Design
- Remedial Construction Management
- Property Transaction Services
 - Due Diligence, RI/FS, PCR
 - Brownfields Redevelopment—Investigation, Remediation, Program Management
 - Phase I, Phase II Environmental Site Assessments
 - NYC E-Designated Sites
 - NYC OER Program Management—Investigations, Remediation, Grant Application
 - Cost Estimating—Property Investigation & Remediation
- Environmental Audits—Assess Environmental Liability
- Environmental Assessment & Contaminant Source Evaluation
- Groundwater Investigation & Remediation
- Aquifer/Pumping Testing
- Risk-Based Approach Solutions
- Site Closure Reports
- UST/AST Management
- Air, Water, Soil & Soil Vapor Sampling/Monitoring Community Air Monitoring
- Environmental & Health Risk Assessment
- Radiological Investigation & Remediation Services
- Hazardous Waste Management
- Soil Management, Certified Clean Fill
- Storm Water Management
- Water Table Evaluation & Flood Mitigation
- Dewatering Design, Permitting & Compliance Sampling

Environmental Compliance/Management

- Air Quality—Title V Permitting, Air Emission Inventories, Tier II & TRI Reporting
- Articles XI & 12 Hazardous Materials Storage Compliance for Nassau & Suffolk Counties, NY
- Chemical/Petroleum Bulk Storage Tanks—Permitting, Audits, Regulatory/Environmental Compliance Management
- Facilities Contingency Plan Development/Management, including SPCC, SWPPP, FRP
- Compliance Review
- Regulatory Compliance Reporting
- FAR 139.321 Fire Safety Inspections
- Fuel Storage Facilities & Mobile Fuel Equipment

Industrial Hygiene

- Asbestos Inspections and Testing
- Indoor Air Quality

- Legionnaire Insoections
- Lead/Mold Testing and Remedial Plans
- Noise Surveys

Expert Counseling/Client Representation

- Expert Testimony, Support & Counsel

Wastewater/Water Supply

- Water Supply/Wastewater—Systems, Planning, Design
- Groundwater Modeling
- Site/System/Feasibility Evaluation, Planning & Technical Assistance
- Water Conservation Plan Development

Natural Resource Studies

- Wetlands Delineation, Permitting & Mitigation Design
- Threatened & Endangered Species Surveys
- Migratory Studies
- Ecological Studies
- Ecological Risk Assessments
- National Environmental Policy Act (NEPA) Studies
- Planning
- Watershed Analysis

Energy/Sustainability Solutions

- Geothermal System Feasibility Analysis, Design, Permitting & Construction Management
- Renewable Energy Design for Solar & Wind
- Carbon Footprint Analysis, Profile & Management
- Alternative Fueling Station Planning & Design, Equipment Specification, Construction Observation, Permitting, Compliance & Facility Commissioning for Compressed Natural Gas, Hydrogen, Biodiesel & Ethanol-85
- Building Due Diligence & Energy Studies
- LEED Administration & Sustainable Design Practices
- High Performance Sustainable Buildings
- Energy Conservation & Energy Recovery Alternatives
- MEP/High Efficiency Equipment Solutions
- Power Generation, Cogeneration & Fuel Cells
- Energy Modeling, Utility Rebate Programs & Tax Incentives
- Green Legislation & ARRA Stimulus Grants
- GIS Based Modeling for Wind, Solar & Carbon Footprint Analysis

Civil/General Engineering

- “Best Economic Alternatives” Evaluation
- Comprehensive Feasibility Studies
- Conservation Plan Development
- Construction Planning, Management, QA/QC
- Drainage Planning, Grading & Design
- Evaluation, Planning & Technical Assistance
- Facility Design & Condition Assessment
- Planning & Design
- Property Condition Report

Geographical Information Systems/Global Position Systems

- Data Collection & Conversion
- Infrastructure & Asset Management
- Wetlands & Endangered Species Delineation
- Digital Elevation Model Analysis
- Customized GIS Applications, GIS/CAD Integration
- Database Development, Conversions, Manual Digitizing
- Website Development
- GPS Field Data Collection & Post-Processing
- Remote Sensing & Image Processing





**INDUSTRIAL HYGIENE
SERVICES**

INTRODUCTION TO INDUSTRIAL HYGIENE SERVICES

Industrial hygiene is the science of anticipating, recognizing, evaluating, and controlling workplace conditions that may cause workers injury or illness. Industrial hygienists use environmental monitoring and analytical methods to detect the extent of worker exposure and employ engineering, work practice controls, and other methods to control potential health hazards. To be effective in recognizing and evaluating on-the-job hazards and recommending controls, industrial hygienists must be familiar with the hazards' characteristics. Major job risks can include air contaminants, and chemical, biological, physical, and ergonomic hazards.

PWGC's industrial hygiene services include:

- Asbestos Survey and Abatement
- Mold Assessment
- Lead-Based Paint Assessments
- Noise Surveys
- Silica Surveys
- Legionella Inspections, Procedures, and Sampling Plans

Asbestos

Asbestos is a group of six small, naturally occurring fibers, the most common of which is chrysotile. Exposure to these fibers can cause a variety of diseases including cancer, mesothelioma and asbestosis. Asbestos has been manufactured in over 300 different types of building materials and is still being used today. Suspect asbestos-containing building materials can include sheetrock, joint compound, mastics, moldings, floor and wall tile/grout/mastic, ceiling tiles, carpet glue, window caulking and glazing, brick and mortar, pipe and boiler insulation, waterproofing, fireproofing, attic insulation, roofing material, electrical insulation, and more.

In the United States, asbestos is regulated by the Occupational Safety and Health Administration (OSHA), the Consumer Product Safety Commission (CPSC), the Mine Safety and Health Administration (MSHA), and the Environmental Protection Agency (EPA). In New York State, asbestos is regulated by the New York State Department of Labor (NYSDOL) and the New York City Department of Environmental Protection (NYCDEP). Additionally, local municipalities may have their own regulations and processes to navigate.

Asbestos Surveys

PWGC staff are experts at navigating the industrial hygiene industry, specifically asbestos surveys. PWGC is certified by NYSDOL and NYCDEP to perform Asbestos Inspections and Investigations. PWGC has conducted asbestos surveys across New York City and New York State for a variety of clients which include major airline carriers, retailers, residences, schools, auto dealerships, local shopping centers, real estate developers, banking institutions, public facilities, and insurance companies. PWGC adheres strictly to the protocols dictated by Part 56 of Title 12 of the Official Compilation of Codes, Rules and Regulations for the State of New York (ICR 56) and New York City Title 15 of the Asbestos Control Program Rules and Regulations.

Asbestos Abatement Services

PWGC provides turnkey asbestos abatement for:

- Asbestos Air Sampling
- Project Monitoring
- Project Design
- Management Planning in New York State



PWGC has experience conducting asbestos abatement projects for health care, aviation, commercial and residential real estate, retail, financial institutions, manufacturing, defense, and educational and institutional market sectors.

PWGC accomplishes this goal by working with qualified industry associates, including laboratories and abatement subcontractors that deliver accurate testing results, enabling PWGC to quickly address the significance of a given asbestos issue. Our reviews include a report that clearly illustrates the environmental issues of a given location as it relates to asbestos and a clear directive as to how those issues can be remedied in accordance with relevant regulatory standards.

Mold Assessments

PWGC staff are certified by the NYSDOL for mold assessment. Our staff is experienced with the policies and procedures related to mold assessment and the development of mold abatement programs.

PWGC has experience conducting mold assessments in a wide range of structures. Our clients include insurance companies, schools, major hospitals, international airports, manufacturing facilities, defense contractors, home builders, real estate developers, banks, as well as federal, state and local municipalities.

Lead-Based Paint Assessments

Commercial, industrial and manufacturing facilities also used Lead-Based Paint before and after 1978. Prior to repair, renovation, or demolition of a painted a surface, a Lead-Based Paint assessment should be conducted to determine if workers will be exposed to lead.

Lead-Based Paint is regulated by the USEPA and OSHA. PWGC and its staff are certified by the USEPA to conduct Lead-Based Paint assessments for residential structures. PWGC also provides these services for commercial and industrial properties.

Noise Survey

PWGC conducts noise surveys in support of clients' Hearing Protection Programs developed under 20 CFR 1910.95. Noise surveys are conducted for an 8-hour workday with a monitoring device attached to each employee being monitored for the workday. The client deliverable is a letter report with the data and specifics of data collection.

Silica Survey

PWGC conducts silica dust (respirable silica) monitoring. Monitoring consists of specific employees being equipped with a wearable pump, cyclone, and cassette that are worn for an 8-hour workday. Pump functioning is monitored by PWGC throughout the day to ensure that the pumps are drawing air through the cassette. The client deliverable is a letter report with the data appended.

Legionella Inspections, Procedures, and Sampling Plans

Per the New York State Sanitary Code Title Part 4 - Protection Against Legionella, all owners of cooling towers shall register such towers with the New York State Department of Health. Additionally, at a minimum, owners shall have a maintenance program and plan that is implemented for each cooling tower, perform routine bacteriological culture and Legionella sampling and analysis and inspections, and complete annual certifications. PWGC has experience in both preparing maintenance programs and plans, as well as performing cooling tower inspections.

In addition, all general hospitals and residential health-care facilities as defined in Article 28 of the Public Health Law shall complete an environmental assessment and update it annually and adopt and implement a Legionella culture sampling and management plan for their potable water system. Although it is recommended that other facilities such as those with multiple housing units and centralized hot water systems or those greater than 10



stories have a water management program for the buildings' water distribution system, it is not required.

PWGC has significant experience with completing building evaluations and environmental assessments, developing sampling plans, performing water quality and swab sampling, developing treatment plans, overseeing treatment implementing, preparing water management plans, and performing cooling tower inspections. Our clients include major hospitals, high-rise building owners, single-family residential building owners, and universities.





**ASBESTOS SURVEY
EXPERIENCE**

ASBESTOS SERVICES: ASBESTOS SURVEY EXPERIENCE

PWGC has conducted inspections across New York State, on Long Island, in the five boroughs of New York City and in New Jersey. Our clients include major hospitals, international airports, manufacturing facilities, defense contractors, home builders, real estate developers, banks, as well as, federal, state and local municipalities.

PWGC is certified by NYSDOL and NYCDEP to perform Asbestos Inspections and Investigations. The following are successful examples of PWGC efforts related to asbestos survey and inspection.

ACM Survey/Inspection - Designatronics, Inc.

The site, located in Hicksville, New York, was a former warehouse facility that was renovated to become a manufacturing facility. PWGC became involved early on to assist the developer in planning the asbestos inspection, management, abatement and closure aspects of the project to ensure compliance and minimize potential downtime. The facility was found to have asbestos-containing materials in the roofing and flooring. The demolition and construction of the project were completed on schedule and within budget.

PWGC provided full asbestos project monitoring services including asbestos inspection, air sampling, visual inspection, and closure services on this redevelopment project. Due to the tight project schedule, PWGC quickly provided a full-range of asbestos-related engineering, inspection and abatement services to allow the developer to proceed with demolition and construction services without interruption or downtime.

PWGC's knowledge of NYSDOL regulations and strong relationship with numerous abatement providers, allowed us to plan the project within the tight schedule demanded by the developer. PWGC received the required agency approval to ensure compliance with applicable federal, city and state laws.

ACM Survey/Inspection - REDCOM Design and Construction, LLC.

The site, located in Brooklyn, New York, was completely renovated with a new multi-level, 60,000-square-foot auto dealership with rooftop parking. PWGC became involved early on this redevelopment project to assist the developer in planning the asbestos, lead and mold inspection, as well as, management, abatement, and closure aspects. The existing building had significant asbestos-containing materials in the roofing, flashing, acoustical ceiling tiles and flooring. Lead-based paint was identified throughout the structure. The demolition and construction of the project were completed on schedule and within budget and the new facility is currently open for business.

PWGC provided full turn-key asbestos services including asbestos inspection, abatement, project monitoring, reporting, disposal, and permitting services on this aggressive construction project. Due to the tight project schedule, PWGC provided a full-range of asbestos-related engineering, inspection and abatement services to allow the developer to proceed with demolition and construction services without interruption or downtime.

PWGC's knowledge of NYSDOL and NYCDEP regulations and strong relationship with numerous abatement providers, allowed us to plan the project, coordinate the permitting process and manage all aspects of the project within the tight schedule demanded by the developer. PWGC received the required agency approval to ensure compliance with applicable federal, city and state laws.





MOLD ASSESSMENTS

MOLD SERVICES: MOLD ASSESSMENTS

Mold Assessment - Developmental Disabilities Institute

PWGC was retained by Developmental Disabilities Institute to conduct air quality testing for mold at 75 Landing Meadow Lane in Smithtown, New York. This inspection followed the guidelines and procedures contained within the documents below, as well as typical industry protocols. Sampling was conducted to ensure that air quality was safe for student and faculty following roof replacement after a water intrusion event.

Mold Assessment - Data Device Corporation

PWGC conducted air quality testing for mold at the client facility, located in Bohemia, New York. The assessment followed the guidelines and procedures contained within the New York City Department of Health and Mental Hygiene's Guidelines on Assessment and Remediation of Fungi in Indoor Environments and the United States Environmental Protection Agency's Mold Remediation in Schools and Commercial Buildings, as well as our own expertise. In order to determine if air quality in these specific areas was being affected by the presence of mold spores, PWGC collected mold air samples from the site. The air samples were analyzed by a properly certified environmental laboratory. PWGC delivered a comprehensive report that detailed, in easy to understand language, any issues that were present at the facility.

Mold Remediation Oversight - Internal Revenue Service

PWGC was retained to provide remediation oversight services for the IRS facility located in Holbrook, New York. The project entailed oversight of abatement and clearance sampling for three areas of the subject property totaling more than 100,000 square feet of space.

IRS

PWGC has been retained by the IRS facility located in Holbrook, New York numerous times to provide project monitoring services as they redevelop their office spaces. PWGC provides air sampling through the duration of the project and keeps a detailed summary book of the work being performed, ensuring that all ICR 56 guidelines are being followed. PWGC understands that following these strict guidelines provides a healthy and safe environment for both the workers and the onsite IRS personnel. PWGC works with abatement contractors and IRS facility workers to make sure the integrity of the strict security measures in place in the IRS facility are not compromised while following ICR 56 guidelines.

Asbestos Inventory Report - Developmental Disabilities Institute

PWGC was retained by the Developmental Disabilities Institute to conduct an asbestos inventory and prepare an inventory report of their school buildings. The purpose of the Asbestos Inventory was to evaluate building materials within the interior of the school building for the presence of potential asbestos containing building materials as required by AHERA. Work was conducted in accordance with § 40 Code of Federal Regulations (CFR) 763.85 (b).

Mount Sinai South Nassau Hospital

PWGC operates at an on-call basis to ensure the hospital is not contaminated with any mold growth following any leaks, or water release events in the ceiling of the operating rooms from HVAC units. PWGC utilizes humidity, moisture meters, temperature guns, and other handheld tools to assess the impacted building materials for moisture once they are cleaned following the water release event. Confirmatory swab sampling is then conducted to ensure that building materials are free from any fungal growth which is often related to water damaged building materials. PWGC understands fungal growth can be dangerous to human health in these sensitive settings and handles these projects with urgency and care.



A photograph of a utility room showing significant lead-based paint removal. A large section of grey paint has been chipped away from a wall, revealing a lighter substrate. The room contains various pipes, including yellow and red ones, and a white valve handle. A blue graphic overlay with a white border is positioned in the upper right, containing the text 'LEAD-BASED PAINT SERVICES'. The bottom half of the image features a blue background with a white circular graphic element.

LEAD-BASED PAINT SERVICES

LEAD SERVICES: LEAD-BASED PAINT



Industrial Hygiene Inspection - Asbestos, Lead-Based Paint and Mold, South Nassau Communities Hospital

South Nassau Communities Hospital (SNCH) retained PWGC to prepare an Asbestos, Lead-Based Paint and Mold Survey for the property located at 510 Merrick Road, Rockville Centre, New York. The purpose of the inspection was to determine if there are any asbestos-containing materials, lead-based paint and/or mold located within the entirety of the subject property. This work was completed as part of a potential renovation. From the information collected from this inspection, PWGC designed a comprehensive work plan for the remediation of the site.

The scope of work for the asbestos portion of this project consisted of a visual inspection of the interior and exterior areas of the subject property, as well as the collection and analysis of building materials for asbestos. Asbestos bulk samples were collected by a New York State Department of Labor (NYS DOL)-Certified Asbestos Inspector, according to protocols dictated by Part 56 of Title 12 of the Official Compilation of Codes, Rules and

Regulations for the State of New York (12 NYCRR Part 56). Samples were analyzed by a lab that is certified and accredited by the National Voluntary Laboratory Accreditation Program (NVLAP), the Environmental Laboratory Approval Program (ELAP)-accreditation laboratory, and the New York State Department of Health (NYS DOH).

PWGC has determined that asbestos, lead-based paint and mold are present in the facility. PWGC designed a work plan to address the remediation necessary at the site.

Emergency Response - Boiler #3 Failure, South Nassau Communities Hospital

PWGC completed work activities at the Power Plant at SNCH in response to the catastrophic failure of steam boiler #3. The failure resulted in cracking and damage to the brick, cement and insulation at the top of the unit. SNCH contacted PWGC to report the incident and requested emergency assistance with the cleanup.

PWGC provided the following:

- Assessment of the damage to the boiler
- Asbestos Survey to determine if asbestos-containing material was present at the site
- Coordination with a certified asbestos abatement company to clean the power plant quickly
- Air monitoring during clean-up to confirm that air samples did not exceed the NYSDOL threshold of 0.01 fibers per cubic centimeter.
- Structural Inspection of steam boiler #3 as well as the adjacent building.
- Aerial flight utilizing an unmanned aerial vehicle to assess any damage to the roof of the power plant



Before Photo - Top of Boiler



After Photo - Top of Boiler



LEAD SERVICES: LEAD-BASED PAINT

Limited Asbestos, Lead-Based Paint and PCB Caulking Survey, Greenman-Pedersen, Inc.

PWGC performed a Limited Asbestos and Lead-Based Paint Survey for designated areas of the property located at Planting Fields - Manor House, Old Brookville, New York, as directed by representatives of GPI. The purpose of the inspection was to determine if there are any asbestos-containing materials (ACM), lead-based paint (LBP) or Polychlorinated biphenyl (PCB)-containing materials located within areas of the proposed renovation on the subject property.

The scope of work for this project consisted of a visual inspection of the specified exterior areas of the subject property, as well as the collection of samples for laboratory analysis.

Asbestos samples were collected by a NYSDOL-certified Asbestos Inspector, according to protocols dictated by Part 56 of Title 12 of the Official Compilation of Codes, Rules and Regulations for the State of New York (12 NYCRR Part 56). Lead samples were collected by an Environmental Protection Agency (EPA)-certified Risk Assessor. The asbestos and lead samples were analyzed by a NVLAP, ELAP-accreditation laboratory, and a new NYSDOH-certified laboratory.



NOISE AND SILICA SERVICES



NOISE AND SILICA SERVICES

Noise and Silica Monitoring - Kemek LLC

PWGC provided sound level and respirable silica monitoring for a blasting company at two quarries. Monitoring was conducted for three different job tasks on the blasting crew: driller, blaster, and driver. Drillers were monitored on two different rigs. Monitoring was consistent with and in support of the client's Respirable Crystalline Silica Program (OSHA 29CFR 1926.1153) and Hearing Conservation Program.

PWGC conducted silica dust monitoring for three different job tasks over two days. Sample analysis was conducted by an accredited environmental lab. The client used the monitoring results to determine if in-place engineering controls were protective of employees.

In tandem, PWGC conducted a noise survey for the same three job tasks. Over an 8-hour period PWGC collected noise readings. The client used the noise survey data to determine that additional engineering controls were needed for one job task to be protective of the employee performing that task.



Berm Modeling, Noise Survey Evaluation - Town of Islip

PWGC provided professional environmental consulting services for a shooting range located on Long Island, New York. PWGC evaluated the existing berm heights and setbacks due to reports of elevated noise levels at nearby residential homes. To evaluate the existing berm heights and setbacks, PWGC conducted a site walkthrough, conducted a drone flyover and generated a 3D model, conducted three noise survey events over a 1-week period, and provided a report that documented the findings of the site evaluation and the results of the noise survey in comparison to local noise ordinances. PWGC provided general recommendations to improve the facility.



A microscopic view of Legionella bacteria, which are rod-shaped and appear as numerous blue, cylindrical structures. The bacteria are arranged in a dense, somewhat chaotic cluster, with some individual rods and others in small groups. The background is a deep blue, and there are faint, concentric circular patterns in the lower half of the image, suggesting a water droplet or a similar environment. The text "LEGIONELLA SERVICES" is overlaid on a white rectangular box in the upper right quadrant.

**LEGIONELLA
SERVICES**

LEGIONELLA SERVICES

Legionella Manual - Overall Potable Water Manual, Mount Sinai South Nassau

Following the Legionnaires' disease outbreak in the South Bronx, New York during July and August 2015, New York State implemented statewide regulations (NYCRR Part 4 Title 10) requiring the registration, testing, inspection, and certification of all cooling towers and the adoption of a Legionella sampling plan for general hospital and residential health-care facilities' (Article 28 facilities) potable water distribution systems. PWGC provided Mount Sinai South Nassau (MSSN) with a manual to prevent Legionella contamination.

PWGC provided the following services to MSSN:

- PWGC performed an inspection of the main campus facility to gain an understanding of the potable water system.
- PWGC coordinated with MSSN's facilities engineer, and infection prevention/control, administration and medical staff in development of the manual.
- PWGC researched current industry standards and guidelines and coordinated with the New York State Department of Health (NYSDOH) throughout the manual development to ensure compliance with applicable regulations (ASHRAE Standard 188-2015, Legionellosis: Risk Management for Building Water Systems) and industry standards.

In the event of an outbreak, the overall potable water manual discusses how to respond environmentally and discusses the maintenance and long-term control measures that can be implemented in order to help prevent Legionella contamination. The manual includes recommendations for the main hospital campus as well as off-site locations. PWGC also developed a routine Legionella sampling program for non-high-risk patient care areas and non-patient care areas (such as cooling towers, hot water heaters and decorative fountains). In response to the sampling results, PWGC discussed separate action levels, responses and disinfection procedures for the cooling towers and the potable water system. In addition to Legionella samples, non-Legionella samples can be collected in order to assess the condition of the overall system. These samples include, but are not limited to, pH, temperature, corrosion, free residual chlorine, and amoebae.

