



The Clarifier

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Robert McIntyre Recognized for Years of Service to Water For People

On Wednesday, April 26th, 2017, Stone Hill Contracting's Director of Development, Bob McIntyre, was presented with a Special Resolution from the Board of Directors of the Pennsylvania Section of American Water Association (PA AWWA), during their luncheon at their 69th Annual Conference in Hershey, PA. Mr. McIntyre has been a member of the American Water Works Association since 2005, and has served on the Water For People Committee since that time. He has also served as the Chair of the Committee for the past seven years, after serving as the Chair of NJ Section Committee from 2008-2010.

As stated in the resolution, Water For People provides for the development and accessibility of community potable water systems with high quality drinking water and sanitation services for specific areas of developing countries to be sustained by strong communities, business and governments that currently may not have these basic human needs.

Under Bob's leadership, the PA AWWA Committee has conducted fund raising events, such as sporting events, golf outings, silent auctions, bingo nights as well as the Annual PA AWWA Water For People Gala which is hosted by Stone Hill Contracting each year at William Penn Inn in Gwynedd, PA. Coupled with the fund raising, the committee is also available for educational sessions at churches, schools, community groups and companies.



Stone Hill has chosen Water For People as one of their charities of choice, and in so doing is proud of this recognition of Mr. McIntyre, and they are also happy to be able to support such a tremendous industry related non-profit organization, as a way of giving back to an industry that has supported them throughout their more than 35 years in business.

Pictured left to right: Herb Spencer (Shannon Chemical Corporation), Bob McIntyre (Stone Hill Contracting Co.) and Dan Preston (North Penn Water Authority).

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Special points of interest:

- Robert McIntyre Recognized for Service
- Max S. Mott Memorial Golf Outing

3rd Annual Max S. Mott Memorial Golf Outing

In March of 2015, Max S. Mott, former Vice President of Stone Hill Contracting, died unexpectedly during a family vacation to Florida. Shortly thereafter, the management of Stone Hill decided to do something to honor Max. Due to his and his brother Sam's love for the game of golf, it was decided a golf outing would be the best way to remember Max each year.

The 3rd Annual Max S. Mott Memorial Golf Outing will be held on Saturday, September 9th at the Bucks Club, located at 2600 York Road in Jamison, PA. Registration will begin at 6:45 AM, with a Shotgun start at 7:45 AM. Golf and lunch will be provided by Stone Hill Contracting, but sponsorships are available. Registration and sponsor information can be found at www.StoneHillContracting.com



Passaic Valley Water Commission Project

Stone Hill Contracting received the notice to proceed on March 30, 2017. This project is a 28.5 million dollar, two year project, for the Passaic Valley Water Commission. The project will provide the Commission's Little Falls Water Treatment Plant in Totowa, NJ with a new standby generation facility and a modified electrical distribution system. Mobilization will be in May with initial work consisting of soil and erosion control, clearing and grubbing and subsurface utility exploration. In preparation for the new Generator Building, soil nailing and construction of an MSE wall will be required. The new 7,680 square foot Generator Building will house four (4) new 3000 kW diesel generators and rest on 152 micropiles. New 4.16 kV paralleling switchgear will also be installed for parallel operation of the generators. Two new 26.4 kV medium voltage enclosed switchgear stations will be installed and a new electric feed will be installed by PSE&G. In addition, two new 17,500 gallon above ground Fuel Storage Tanks will be installed.

Sandy Hook WWTP

Work at the Sandy Hook WWTP on the Gateway National Recreation Area for the National Park service is entering the final phase. The new treatment equipment was started up and flow was diverted to the new plant. The last several months has seen a major push to bring the new equipment on line due to the long lead times of the equipment and the necessity to beat the summer beach traffic. Stone Hill's employees, Travis Electric, the National Park Service, the equipment suppliers Westech and Huber all worked together to make the final push to overcome a few obstacles and unforeseen conditions to make the startup happen.

The New Treatment Process consists of a prepackaged Headworks unit supplied by Huber Technologies, rotating aeration equipment, clarifiers, pumps and instrumentation supplied by Westech Engineering. Adams Environmental is completing the new SCADA work to add the new equipment to the existing SCADA system. Dutchland Inc. provided the main treatment train prestressed concrete tanks, Garden State Precast provided the various vaults and manholes required for the project.

The next phase of the project consists of transforming the last remaining trickling filter into a new chemical feed room.



Stone Hill anticipates completing the project by the end of August.

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Bayshore R.S.A. Blower Building

Stone Hill Contracting has completed all but two sections of the new flood wall around the Combined Blower Building. The remaining two sections will be completed when the entire building can be shut down. Start-up on the new aeration system in the first two tanks has been completed, and now the focus is on getting the next

two tanks completed.

Stone Hill has also completed installing the majority of the outside stainless steel PA header that will provide air to all of the new aeration systems in all eight tanks.



River Front Recycling—Sea Crest Pines

Stone Hill Contracting Co. Inc. is pleased to renew the relationship with River Front Recycling, LLC, this time as a subcontractor to River Front in their efforts to develop the property at Sea Crest Pines near Barnegat, NJ. Stone Hill will be completing the pump station portion of the project, which will include a new wet well and valve vault from Atlantic Precast, pumps from Riordan Materials, piping from Raritan Supply, and a new backup generator system from Cooper Power Systems. A new masonry building with shingle roof will house the generator and electrical equipment provided by ABS Electric.

This project is very similar to the recently completed Montgomery Ridge project, which was also done with River Front Recycling. Stone Hill is hoping to continue the successful partnership with River Front Recycling on this and future projects.



OCUA Area-Wide Clarifier Rehabilitation

This project consists of rehabilitating five Ocean County Utility Authorities Clarifiers at both the South and Central Plants. Each clarifier requires the coating to be removed utilizing 40,000 psi pressure washers which is being performed by Aulffo Painting. New concrete and epoxy coating systems supplied by Corrosion Technology Systems are being installed by Stone Hill Contracting. Demolition of the grout floors and mechanical equipment make way for new mechanical systems being provided by Envirodyne Systems.

Additional work includes yard piping and manholes at the Central Plant, and miscellaneous concrete demolition and installations. By press time, four tanks are anticipated to be complete and back in service for the summer months.



Wanaque South Pump Station Upgrade

How things have changed since the last newsletter. The impeller issues on the 2000 hp pumps were resolved by Flowserve. In turn, Stone Hill hired an independent agency, Hydro Inc., to fly down to Santa Clara Mexico to witness the flow criteria on the pump test. All the tests were positive and Envirolutions and Flowserve began shipping the five out of a total of six pumps.

Once the first pumps were onsite, the removal of the existing pumps and installation of the new started. Stone Hill would pull and replace the existing pump, Spark Electric would then install the various control and feeder wires to the pump from the new switchgear. Scott Testing would then upgrade the existing amp/gard and then programming of the relay units. Keystone would then modify the existing Motor Control Center and then wire and program the new switchgear, PLC and valving enabling the pump to operate. Final startup up was performed by Eaton and Toshiba on their particular equipment whether it being a Medium Low Voltage Starter or VFD. This process was repeated five consecutive times until all five pumps, switchgear and upgrades were completed.



During one stage, Stone Hill needed to remove the temporary pump and send it back to Flowserve for upgrades. At this time, the pump has been upgraded and tested, therefore we expect that it should be onsite in a couple of weeks. After the final pump is installed and the startup is complete, Spark will then install the new overhead lighting and Keystone will tidy up any remaining control for the pumps. Stone Hill and Envirolutions will need to make an 8-hour run test on each pump unit along with vibration tests for final acceptance.

North Jersey District Water Supply Commission Lagoon Decant Tower Project Still in Piloting

Kleinfelder Engineering (KLF), Stone Hill's partner on this project continues to monitor and upgrade the pilot system for the lagoon decant at the North Jersey District Water Supply Commission (NJDWSC) treatment plant in Wanaque, NJ.

The electro-coagulation pilot seems to be successful, however it has been determined that the addition of filtration will be required in an effort to extend the life of the ceriodaphnia dubia (water fleas) that are present in the plant discharge.

While this project has had its challenges, the team effort from all parties, including the owner (NJDWSC), engineer (KLF), and Stone Hill, has been quite successful, and we all look forward to seeing this challenging project through to a successful completion.



NJDWSC Clarification Project Gears Up with Demolition

Stone Hill Contracting along with their Engineering Partners, HDR Engineers, are moving toward a construction start later this summer. The demolition operation is getting underway as the Clarifier goes to press, with Subcontractor Jack Pears & Associated removing existing equipment and misc. items. As the project progresses, modifications will be made to the basin structure in order to optimize hydraulic conditions. This will include concrete cutting and demolition.

Once all of the structural modifications are complete, new Influent and effluent valves will be installed as well as new Jim Myers and Sons flocculators and Meurer Research plate settlers and sludge collectors. It is hoped that the project will be near completion by the end of year barring any delays in permitting and/or manufacturing.



Borough of Wharton One Million Gallon Elevated Tank

Stone Hill and Mid Atlantic Tank Systems have started constructing the Wharton Water Tank #2 in Wharton NJ. The wall systems will jump in 8 foot increments to a height of 60 feet with the last jump being only 4 foot high. In the last 4 foot section, there are numerous embeds and block outs for the interior structural steel floor beams. Once the beams are erected, there will be a fabricated 74 foot diameter structural steel and decking tank floor set atop the pedestal walls and steel. After erection, the interior of the tank floor will be filled with 4 feet of concrete. After completion, the Mid Atlantic tank crew will begin installing the 1,000,000 gallon water tank atop the floor assisted by Stone Hill Contracting.

Other work happening is the installation of the new 12" waterline by Fitzpatrick Excavating along with electrical installations by MBE Mark III Electrical Contractors. Interior work will consist of a small partitioned room which will hold the waterline piping, instrumentation and various electrical components. The data from the instruments will be remotely transmitted to the owner's offsite facilities. Final backfill, grading and top soiling will be completed by the Fitzpatrick Group. A protection fencing system by Able Fencing will encircle the entire structure.



AQUA PA Chalfont Project Gets Underway

AQUA Pennsylvania awarded Stone Hill Contracting a contract for the installation of Filters at their Chalfont Well #8 Facility, in Chalfont, PA. The project consists of site work, yard piping, a new concrete foundation, exposed piping, installation of an owner supplied filtration system, electrical work and a small shed to house the piping skid.

As this is a fast paced project, Stone Hill has been pushing to make sure the site and foundation are ready for the delivery of the filtration equipment. Stone Hill values the opportunity to work with AQUA Pennsylvania once again on this project, as well as electrical subcontractor. G. A. Vietri, Inc.



Industry News

Victaulic Introduces Spigot Outlet Style 926 for HDPE Pipe

Victaulic, the world's leading manufacturer of mechanical pipe-joining systems, recently introduced the Mechanical-T Spigot Outlet Style 926 for high-density polyethylene (HDPE) pipe. This new addition to the Victaulic Refuse-to-Fuse(tm) HDPE system is the company's first mechanical outlet available for HDPE, steel and ductile iron pipe, allowing system engineers to connect branch lines to existing or newly installed pipes quickly and seamlessly.

Conventional installation methods of outlets to HDPE pipe require operators to completely drain and dry existing pipelines in order to electro-fuse connections. The process also requires expensive equipment rentals, additional power costs and presents a host of challenges when installations are done in inclement weather. These time-consuming installation challenges lead to costly downtime and lost production.

The simplistic design of the Style 926 eliminates the need for fusing and can be installed in minutes and in any weather condition using hand-held, battery-powered simple tools and/or hand tools. The Style 926 is also weather independent and can be installed rain or shine without protective tents or covers, and joint completion time does not depend on atmospheric conditions.

Designed for buried or above ground applications, the Style 926's steel hardware is zinc-plated for corrosion-resistance and its ductile iron construction with optional rubber lining makes it ideal for abrasive mining and oil applications such as wastewater, fly ash, slurry systems, mild acids/chemicals, oil lines and drainage systems. The unique locating collar provides rotational resistance and prevents misalignment of the outlet connection allowing for accurate installation and a leak-free joint.

With minimal parts, low profile and simple assembly tools, the Style 926 is an optimal choice for field fabrication. Spigot outlet is also suitable for use on steel pipe and AWWA sized ductile iron pipe. The grooved outlets provide a direct connection to grooved steel pipe, valves, fittings or other equipment with grooved mechanical couplings. Grooved transition couplings are available from Victaulic for connections to plain-end HDPE and grooved American Water Works Association (AWWA) size ductile iron pipe/valves/fittings/equipment.

The Style 926 is available in the following configurations:

- * 4" outlets for 10" - 32" IPS pipe diameters
- * 1 1/4" outlets for 250 mm - 800 mm ISO pipe diameters
- * 6" outlets for 16" - 48" IPS pipe diameters
- 168.3mm outlets for 450 mm - 1200 mm ISO pipe diameters
-

For more information about the Style 926 Spigot and the rest of the Victaulic Refuse-to-Fuse(tm) HDPE system product line, visit www.refuse-to-fuse.com

New York American Water Names Carmen Tierno President

New York American Water recently announced it has named Carmen Tierno its new president, effective March 1, 2017. Tierno replaces Brian Bruce, who has been named president of West Virginia American Water.

"We are so pleased to see both Brian and Carmen take on new expanded roles at American Water," said American Water's chief operating officer Walter Lynch. "We thank Brian for his leadership in New York and are excited for Carmen to join the New York team. Carmen has been a great asset to New Jersey American Water in a variety of roles and has been a key contributor in improving service to our customers in that state. I know his experience in all aspects of the water industry and his commitment to customer service excellence will suit him well in this new role."

Tierno currently serves as New Jersey American Water's senior director of the company's Southwest district operations. Tierno has more than 25 years of experience in the water industry and has been with New Jersey American Water for 20 years in various capacities. As senior director, Tierno is responsible for safety, transmission and distribution, field customer service, meter reading, and the overall performance of New Jersey American Water operations in Burlington, Camden, Gloucester, and Salem counties.

Previously, Tierno worked for the Philadelphia Water Department and then joined New Jersey American Water as an operations engineer. He also served as an engineering manager and as director of customer relations and director of business performance.

Tierno earned his MBA from Rutgers University and his Bachelor's degree in Civil Engineering from Widener University. He has been active with the Water for People charity for more than 15 years and visited Honduras to review water and sanitation projects. Tierno is a member of the American Water Works Association and American Society of Civil Engineers.



Tony Bellitto Receives Samuel S. Baxter Award From the Pennsylvania American Water Works Association

North Penn Water Authority (NPWA) is pleased to announce that Executive Director, Anthony J. Bellitto, Jr., P.E., received the Samuel S. Baxter Award at the Pennsylvania Section of the American Water Works Association's (AWWA) annual conference in May. The Samuel S. Baxter Award was established by the PA section of AWWA to recognize a section member for outstanding personal service in the water supply field and in commemoration of leadership in the development of safe public drinking system practices, the promotion of a water works industry of high esteem and service to the American Water Works Association by Samuel S. Baxter.

Upon receiving this award, Mr. Bellitto commented, "It has been an honor and a privilege to serve our customers with the most vital resource of water for their homes and businesses. I've enjoyed working side by side with the finest and most dedicated people in the water supply industry over the past 30 years of my career. So I am very grateful and humbled to receive this award from my peers at AWWA."



Anthony J. Bellitto, Jr., P.E. has been executive director of NPWA since 1998 and is responsible for all planning, engineering, operational, and financial aspects of the organization, with a staff of 48 employees. The Authority provides a daily average of 10 million gallons per day of water supply to over 34,000 customers from both surface water and ground water in Montgomery and Bucks Counties.

Mr. Bellitto is active with the American Water Works Association (AWWA) and its Water For People program that focuses on international water relief projects in poor communities around the world. The program raises funds and provides technical assistance for water supply and wastewater treatment projects in underdeveloped countries. He is also a Past President of the Pennsylvania Municipal Authorities Association. He has served as PMAA Region I Director and Assistant Director, and has been active on several PMAA committees over the years.

Mr. Bellitto is a Licensed Professional Engineer with a Bachelor's Degree in Civil Engineering and Master's Degree in Environmental Engineering from Manhattan College in New York City. He was formerly employed with the New York City Bureau of Water Supply and also with consulting firms specializing in water supply and wastewater engineering before joining the North Penn Water Authority 19 years ago.

Water For People CEO, Eleanor Allen, Named Schwab Foundation Social Entrepreneur of the Year

Eleanor Allen, CEO of Water For People, was honored recently as a 2017 Schwab Foundation Social Entrepreneur of the Year. Allen, along with fifteen other international professionals, was chosen by the board of the Schwab Foundation for Social Entrepreneurship. The prestigious program acknowledges entrepreneurs' innovative approaches and potential for impact in solving global social issues.



Allen and Water For People were selected for their ability to create lasting social change by shifting the systems that supply water and sanitation services to be more reliable. Through Water for People's Every-one Forever impact model, the organization helps promote the development of high-quality drinking water and sanitation services, accessible to all, and sustained by strong communities, businesses, and governments. To achieve this, Water For People partners with local leaders, governments and entrepreneurs to effectively build infrastructure, and create, own and operate their own water and sanitation utilities/service providers. This enables communities to be self-sufficient and accelerates their social progress. The organization currently works in nine countries.

With Allen as CEO, Water For People is working to solve one of the world's most pervasive challenges, the global water crisis. More than 1.8 billion people around the world lack access to safe water and more than 2.4 billion people lack sanitation services; more than 840,000 people die each year from water-related diseases.

"It is an honor to be recognized by the Schwab Foundation and alongside inspiring social entrepreneurs who are working so hard to change the world we live in," said Eleanor Allen, CEO of Water For People. "Water changes everything. In every community, water lays the foundation for health, education and economic prosperity. Those are the ingredients for social progress."

Allen looks forward to the opportunity to collaborate with global leaders and further Water For People's mission to ensure that every person has access to reliable and safe water and sanitation services for generations to come. This year's Schwab Foundation Social Entrepreneur of the Year honorees join a prestigious network of more than 300 social entrepreneurs from 60 countries.

"Social entrepreneurs are crucial to the global conversation about inclusive growth; they are innovators who use market forces and business discipline to provide solutions for local problems and improve the lives of low-income and marginalized people," said Katherine Milligan, Head of the Schwab Foundation.

According to the Schwab Foundation, a social entrepreneur is a leader, or organization, that achieves large scale, systemic and sustainable social change through a new invention, a different approach, a more rigorous application of known technologies or strategies, or a combination of these. Social progress is defined as the improvement of social, political and economic structures.

The Schwab Foundation for Social Entrepreneurship was founded in 1998 by Hilde and Klaus Schwab and is known as the sister organization of the World Economic Forum. Schwab Foundation Social Entrepreneurs are fully integrated into the events and initiatives of the World Economic Forum. They contribute to and benefit from peer-to-peer exchanges with other social entrepreneurs as well as interactions with leaders in business, government, civil society and the media.

Save the Date.....Upcoming Water For People Events!

June 12, 2017—ACE 17 Water For People Bash. Hard Rock Café, Philadelphia, PA, 8:00-11:00 pm. Please contact Nickole Uva for more information 215.340.1840.

August 3, 2017—Water For People Night at PNC Park. Pittsburgh Pirates vs. Cincinnati Reds, 7:05 pm. Please contact Rachael Beam for more information rachael.beam@amwater.com

September 22, 2017— 11th Annual PA Water For People Charity Golf Outing. Wedgewood Golf Course, Coopersburg, PA. Scramble Start 8:00 AM. For more information, please contact Sandy McIntyre at sales@GraceMediaServicesInc.com

November 2, 2017— 12th Annual Water For People Gala, William Penn Inn, Route 202 & Sumneytown Pike, Gwynedd, PA, 5:00-9:00 pm. For more information, please contact Sandy McIntyre at sales@gracemediaservicesinc.com

Sponsorships Available for all events!

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Stone Hill Contracting



"Committed to Excellence"

Stone Hill Contracting is a regional contractor that provides valuable services by partnering with Owner's, Engineer's, Utilities, Municipalities and communities to improve the environment and our nation's infrastructure.

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