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MAY 2018

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Tim Burton  
Plant Superintendent  
Rocky Mount, Va.

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Getting more from  
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### on the cover

Staff members at the Rocky Mount wastewater treatment plant don't mind getting their hands dirty. In fact, that's a point of pride, according to plant superintendent Tim Burton. He and his team members have a combined 79 years' experience in wastewater treatment. (Photography by Joe Hermitt)

## top performers:

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### Clean Plants, Clean Waters

Meticulous care from an experienced operator family keeps treatment plants spotless and effluent sparkling clear for SouthWest Water in Alabama.

By Ted J. Rulseh

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### Little Big Utility

Prestonsburg water plant team members deal with an expansive territory and variable source water to deliver a consistently high-quality product.

By David Steinkraus

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### Born to Supervise

Jim Boyer brings 30 years' experience in coaching, teaching and mentoring to his role as utility superintendent in Spring Hill.

By Trude Witham

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### All-Around Performers

Experience and cross-training make Rocky Mount team members highly self-reliant in maintaining and rebuilding their wastewater treatment plant.

By Jim Force

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The water professions need qualified new entrants. STEM education is a key starting point. A variety of barriers stand in the way.

By Ted J. Rulseh, Editor

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### Smaller Is Beautiful

A modular ozone generation technology provides affordable ways for water utilities to deal with today's and tomorrow's treatment challenges.

By Ted J. Rulseh

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Louisville Water's Adventures in Water Festival celebrates 10 years of infusing students with passion for water and its protection.

By Craig Mandli

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Direct inline pumping of influent boosts efficiency and eliminates a confined-space hazard for a small clean-water plant in western New York.

By Ted J. Rulseh

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A research center at the University of Wisconsin

Oshkosh focuses on ways to maximize digestion efficiency and biogas production.

By Ted J. Rulseh

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By Jeff Smith

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By Steve Lund

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» Let's Be Clear: Reconciling costs and benefits

» Top Performers:

Wastewater Plant: Newark (New York) Wastewater Treatment Plant

Wastewater Operator: Devin Snyder, Laurel, Mississippi

Wastewater Operator: Herlon J. Fayard Jr., Shoal Creek, Georgia

Water Operator: Jeff Pippel, Kearneysville, West Virginia

» How We Do It: Progressive cavity pumping for biosolids conveyance

» Sustainable Operations: Achieving net-zero energy in Downers Grove, Illinois

» In My Words: Recruiting veterans to the industry

» PlantScapes: Green roofs and more in Richmond, Virginia

» Hearts and Minds: Outdoor education in Henry County, Georgia

» Technology Deep Dive: Finding water leaks from space



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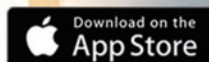


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Published monthly by COLE Publishing, Inc.

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Mon.-Fri., 7:30 a.m.-5 p.m. CST

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**CIRCULATION:** 68,746 copies per month.

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let's be clear

## The Roots of the STEM Student Shortage

THE WATER PROFESSIONS NEED QUALIFIED NEW ENTRANTS. STEM EDUCATION IS A KEY STARTING POINT. A VARIETY OF BARRIERS STAND IN THE WAY.

By Ted J. Rulseh, Editor



It's hard finding young people who gravitate toward careers in water and wastewater. It's harder when many lack interest and proficiency in scientific and technical subjects.

The same, of course, could be said for many professions, as retirement waves aren't limited to the water sector. One remedy is more and better science, technology, engineering, and math education, starting in the early grades. The trouble is that many students shy away from STEM for reasons that may or may not be valid.

Water operators have opportunities to talk up their careers and emphasize STEM education in all manner of settings — during plant tours, in media interviews, at career days and community water festivals, and more. On these occasions, it helps to understand the barriers in the way of STEM education to be prepared to work at knocking them down.

Various studies have looked at the shortage of STEM students and the reasons behind it. Knowing the “why” is a first step toward developing the “how” that can help bring more promising young people into the fold. Here are some barriers researchers have found:

**There are too few qualified instructors.** Teaching STEM effectively means not just knowing the subject matter itself, but knowing how to present it in ways that match the students' intellectual levels. There's a need for more teachers able to do this, especially for the youngest students. Schools need to invest more in developing teachers for STEM.

**Students lack inspiration and are not well prepared.** Students start turning away from STEM studies well before they start high school. Even many who persist into high school experience failure because they lack a strong foundation in basic skills, like algebra, that they need for more challenging STEM courses. Furthermore, many students perceive STEM studies as less exciting than other fields.

**There's too much pressure to earn good grades.** Many students think of STEM courses as “too hard.” They place



more importance on keeping a high grade-point average than in the satisfaction and challenges that STEM studies can provide.

**Students fear social stigma.** Many young people have a perception — reinforced by what they see on TV — that those who pursue STEM in school or at work will be considered geeks or nerds. That blinds them to seeing STEM as a gateway to satisfying and lucrative careers.

**Approaches to STEM education fail to connect with students.** Learning opportunities beyond the classroom can help young people take interest. These can include after-school programs, competitions (like FIRST Robotics), designing and building activities, and science-focused summer programs.

**W**ater operators have opportunities to talk up their careers and emphasize STEM education in all manner of settings — during plant tours, in media interviews, at career days and community water festivals, and more.

**Gender biases and stereotypes persist.** Perceptions remain that girls are “not as good as boys” in science and math. Stereotypes like these can weaken girls’ aspirations for careers in science and engineering. Often, consciously or not, parents and teachers steer girls toward more traditionally female courses of study and careers.

**Emphasis on STEM education starts too late.** Children are innately interested in and ready to engage in STEM learning at very young ages. This shows in their propensity for activities like stacking blocks, building forts and solving problems. Researchers argue that like the seeds of literacy, the seeds of STEM must be planted early.

In your public contacts, can you help make STEM interesting? Speak in ways that forge connections with kids? Explicitly attack the “geek factor”? Consider giving some special encouragement to girls in the groups you meet?

If you can do these things, you just might create the spark that moves a child or two toward STEM studies — and in the bargain maybe win a recruit to the water industry. **tpo**



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## WIN-WIN COLLABORATION

### Promoting the Industry

After reaching out to area businesses about working with students, Gaston College in Dallas, North Carolina, got a response that surpassed all expectations. Collaboration with Two Rivers Utilities in the city of Gastonia has given students an exceptional lab experience, while also providing valuable data collection services for TRU. Students perform nitrification rate testing on samples from two wastewater treatment plants.

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## THE DANGER ZONE

### Phosphorus Pollution

Man-made phosphorus pollution is reaching dangerously high levels in freshwater basins around the world, according to new research. A new study published in *Water Resources Research* estimates the global amount of phosphorus from human activities that entered Earth's freshwater bodies from 2002 to 2010.

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## OVERHEARD ONLINE

“NDMA is one of the major obstacles to direct potable reuse because it is really difficult to get rid of thorough traditional treatment processes.”

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### Tracking Foxes

When it was built 1926, the Glenway Street reservoir was considered such an amazing engineering feat that Madison (Wisconsin) Water Utility proudly filmed much of its yearlong construction. Now, more than 90 years later, a University of Wisconsin fox-tracking program has put Madison's

biggest and oldest reservoir in the spotlight once again.

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STORY: **Ted J. Rulseh**

PHOTOGRAPHY: **Jeff and Meggan Haller**

THE EFFLUENT FROM SOUTHWEST WATER'S TWO main wastewater treatment plants in Alabama consistently meets permits that include a 0.2 mg/L phosphorus limit.

That's in keeping with the character of the plants — the buildings kept spotless and the grounds manicured by a team of 14 operators and service specialists, led by Ryan Weldon, district manager.

“We’ve just set a standard, and we don’t fall below that,” Weldon says. “It’s something we’ve been doing for years. We have operators who really care about how the places look, and they go the extra mile. If we hear somebody is coming to visit, we don’t have to stop what we’re doing and work for a week to get the plants in shape. They stay that way year-round.”

Weldon believes the plants’ appearance helped them win three 2016 awards. The Riverview Water Resource Recovery Facility received a first place Excellence Award from Alabama’s Water Environment Association and a first place Best Operated Plant Award from the Alabama Water and Pollution Control Association. The North Shelby Water Resource Recovery Facility received a second place Award of Excellence from the Alabama Water and Pollution Control Association.





## RESPONSIBLE CARE

SouthWest Water, owner of the plants, dates back to 1925 and is based in Sugar Land, Texas. Its nearly 400 employees operate facilities in Alabama, California, Oklahoma, Oregon, South Carolina, and Texas, serving more than 1 million people. The company focuses on the entire water cycle, from its origin through transport, treatment, distribution, and recycling.

Besides owning and operating the Riverview and North Shelby facilities southeast of Birmingham, the company has a contract to operate the nearby Double Oak Water Resource Recovery Facility, a 1 mgd (design) sequencing batch reactor.

The Riverview and North Shelby facilities use extended aeration activated sludge processes and were upgraded in 2008-09 to meet tightened phosphorus limits and replace outdated equipment; the upgrades did not expand their 3 mgd design capacities.

## A CRITICAL RESOURCE

Effluent from the two main treatment plants ultimately enters the Cahaba River, the longest free-flowing river in Alabama, home to a wide diversity of plants and fishes, and a popular recreational resource. It is also the source for about 75 percent of Birmingham's drinking water. The plants' strict permits reflect the river's value.

The Riverview plant sits along a bend of the Cahaba on a heavily wooded 34-acre site; a 3-acre pond lies next to the office. "We're about two blocks off Highway 280, which is the busiest corridor in Birmingham," says Weldon, a Grade IV wastewater operator. "It's nice that you can come here and you're in nature where it's nice and quiet."

The plant process starts with two climber screens (SUEZ) and a PISTA Grit system (Smith & Loveless). Two aeration basins receive air from centrifugal blowers (Hoffman & Lamson, by Gardner Denver) by way of membrane disc diffusers (Sanitaire - a Xylem Brand). Three 60-foot-diameter clarifiers provide settling.

The flow then passes through a perforated panel screen (Andritz Separation) before entering a four-stage flocculation tank, followed by three AquaDisk cloth membrane disc filters (Aqua-Aerobic Systems). Two UV channels (TrojanUV) provide disinfection before release down a step cascade structure to the river. Excess solids are sent to three aerated digesters, where they are thickened and eventually run through one of two Envirex 1.5-meter belt presses (Evoqua Water Technologies).

The 2008-09 upgrade replaced aging sand filters with the cloth filter system. "During periods of high flow, the sand filters didn't have the necessary capacity," Weldon says. "In a two- or three-day rain, an operator would stand on the old filters, backwashing manually all day long. Each one of our cloth filters will handle 5 mgd, so we have excess filtration capacity in a small footprint. They do a great job, and the maintenance has been relatively low." The old sand filter structure was converted to accommodate the new flocculators.

The 2008-09 upgrade replaced aging sand filters with the cloth filter system. "During periods of high flow, the sand filters didn't have the necessary capacity," Weldon says. "In a two- or three-day rain, an operator would stand on the old filters, backwashing manually all day long. Each one of our cloth filters will handle 5 mgd, so we have excess filtration capacity in a small footprint. They do a great job, and the maintenance has been relatively low." The old sand filter structure was converted to accommodate the new flocculators.



Mark Globetti does sampling and monitoring at SouthWest Water's Riverview Water Resource Recovery Facility.

“Before the lab results or anything else, the operators' senses are the first line of defense.” RYAN WELDON





The team at the Riverview Water Resource Recovery Facility includes, from left, Branden Coomer, Nelson Sharit, Ronnie Howard, district manager Ryan Weldon, Mark Globetti and C.J. Knight.



The team at the North Shelby Water Resource Recovery Facility includes, from left, Scott Elrod, Dave McCombs, Justin Tripp, district manager Ryan Weldon, Tom Johnson and Barry Givens.

## SouthWest Water Wastewater Treatment Plants Shelby County, Alabama



### Riverview Water Resource Recovery Facility

BUILT: | 1980s; upgraded 2008-09

POPULATION SERVED: | 4,000

EMPLOYEES: | 8

FLOWS: | 3 mgd design, 1.5 mgd average

TREATMENT PROCESS: | Activated sludge/  
cloth media filter

TREATMENT LEVEL: | Tertiary

BIOSOLIDS: | Landfilled

RECEIVING WATER: | Cahaba River

### North Shelby Water Resource Recovery Facility

BUILT: | 1980s; upgraded 2008-09

POPULATION SERVED: | 4,000

EMPLOYEES: | 5

FLOWS: | 3 mgd design, 1.3 mgd average

TREATMENT PROCESS: | Activated sludge/  
sand filter

TREATMENT LEVEL: | Tertiary

BIOSOLIDS: | Landfilled

RECEIVING WATER: | Cahaba Valley Creek

## ALL HANDS IN DITCH

If Ryan Weldon ever needed proof that his team would come through when it counted, he got it the day a 14-inch force main broke along Highway 119.

“Our plant operators routinely work with the service technicians on the collections system,” Weldon says. “We had a bad section of force main on Highway 119 that blew out, and we had to call on some of our operators and operators-in-training. We had a party on the side of the highway fixing that force main. Everybody stepped up and did what had to be done.”

The problem was complicated because multiple public and private pump stations fed the line. The team arranged for vacuum trucks to pump out the excavation site. “Then we just had to go in and fix it hot,” Weldon recalls.

The force main had been badly degraded because hydrogen sulfide gas had eroded the top of the pipe. “There were places where you could stick a probe rod through; it was probably an eighth to a sixteenth of an inch thick,” Weldon says. “We kept having to dig back to find places where the pipe was in good enough shape so we could cut and make a repair. We found a section that we thought could handle a repair sleeve. We made two cuts, pulled the bad piece out, measured twice and cut once, and put the new piece in.” The work took about eight hours.

“We’ve always done our own force main and pump station rehab work, so we have the tools and the capability,” Weldon says. “We really had to come together as a team.”

## SIMPLE AND EFFECTIVE

The North Shelby plant has a residential neighborhood on one side and a commercial district on the other. Influent enters two oxidation ditches (Evoqua Water Technologies) with eight Passavant brush aerators (Evoqua Water Technologies). Solids settle in one 135-foot-diameter and two 85-foot-diameter clarifiers.

The effluent then passes through two traveling bridge sand filters (Aqua-Aerobic Systems) and a UV disinfection channel (TrojanUV) before being pumped 9 miles to Cahaba Valley Creek.

Biosolids are pumped from the digester to one of two belt presses (BDP Industries). Biosolids from both plants are landfilled, although beneficial use options are under study.

“North Shelby has no screening or grit removal, but it still manages to put out some of the nicest looking effluent I’ve ever seen,” Weldon says.



Scott Elrod removes floating debris at the North Shelby Water Resource Recovery Facility, which produces excellent effluent despite having no screening or grit collection.



## CONTROLLING PHOSPHORUS

As the leader of the operations team, Weldon brings 15 years' experience in the clean-water industry. He previously managed a Batteries Plus Bulbs store: "I had maxed out what I was doing there and saw little room for growth, so I decided to change gears and enter the water business." In 2003, he went to work as a purification maintenance worker at the Riverview plant, then owned by the Birmingham Water Works Board. SouthWest Water bought the Riverview and North Shelby plants and their collections systems in 2008; Weldon became district manager in 2015.

Attention to detail is a way of life at the plants, and that applies to basic housekeeping. "We do all of our own painting and all of our own landscaping," Weldon says. "It's a full-time job. We paint year-round. We cut every day in the summer to keep the grass, trees, bushes and hedges trimmed."

Phosphorus removal has been a continuous challenge. The 0.2 mg/L limit was imposed in 2010 by the Alabama Department of Environmental Management; it is scheduled to decrease to 0.043 mg/L in 2027. Phosphorus is controlled mainly through addition of polyaluminum chloride. "The majority of it goes into the aeration basin effluent," Weldon says. "In addition, at Riverview, we introduce PAC in the flocculators. At North Shelby, another dose goes into the clarifier effluent."

## COHESIVE TEAM

Weldon, stationed at the Riverview facility, benefits from a team on which the majority of members have at least five years of experience. The Riverview team includes Grade IV operators Mark Globetti and Terry Johnson; C.J. Knight, operator-in-training; and service technicians Branden Coomer, Loren Gilliland, Ronnie Howard, and Nelson Sharit (who is also a Grade II operator).

At North Shelby are Grade IV operators Barry Givens, Dave McCombs, and Scott Elrod; Justin Tripp, operator-in-training; and service technicians Richard Burnett and Tom Johnson.

Weldon works to instill consistent teamwork: "We try to get everybody together frequently to have some time together that's not necessarily work-related, where everybody can just hang out and talk to each other. We'll have a barbecue or go to breakfast at the Cracker Barrel. A lot of the guys have been here so long that they're friends outside of work. It's more like a family than a work atmosphere here."

On the job, there are weekly staff meetings to review service maintenance needs and organize tasks for the week. Safety topics are covered in an online Safety Skills service. "Every month we get three to five safety topics to train on," Weldon says. "We can sit down as a group and go through them on a big screen in our break room. Or, if we have a lot going on, and most of the time we do, the guys can log on and review the topics at their own pace." *(continued)*



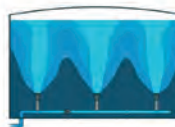


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“A lot of the guys have been here so long that they’re friends outside of work. It’s more like a family than a work atmosphere here.”

RYAN WELDON

Mark Globetti (right) and C.J. Knight are part of a team that takes pride in keeping the Riverview Water Resource Recovery Facility looking sharp.



**Riverview Water Resource Recovery Facility  
PERMIT AND PERFORMANCE**

	INFLUENT	EFFLUENT	PERMIT
<b>BOD</b>	88.8 mg/L	0.42 mg/L	4.0 mg/L
<b>TSS</b>	94.2 mg/L	1.35 mg/L	24.0 mg/L
<b>Ammonia</b>	N/A	0.05 mg/L	1.0 mg/L
<b>TKN</b>	N/A	0.36 mg/L	2.0 mg/L
<b>Phosphorus</b>	4-6 mg/L	0.14 mg/L	0.2 mg/L

Values represent monthly averages

**North Shelby Water Resource Recovery Facility  
PERMIT AND PERFORMANCE**

	INFLUENT	EFFLUENT	PERMIT
<b>BOD</b>	50.8 mg/L	1.58 mg/L	4.0 mg/L
<b>TSS</b>	118 mg/L	2.31 mg/L	30.0 mg/L
<b>Ammonia</b>	N/A	0.023 mg/L	1.0 mg/L
<b>TKN</b>	N/A	0.15 mg/L	2.0 mg/L
<b>Phosphorus</b>	4-6 mg/L	0.062 mg/L	0.2 mg/L

Values represent monthly averages

For continuing education, team members attend Alabama Water and Pollution Control Association and Alabama’s Water Environment Association conferences and short courses. Operator McCombs teaches a variety of in-house classes. Operator Johnson, retired from another area facility, uses his experience to support colleagues studying for exams.

Givens, lead operator at North Shelby, sets an example with his no-nonsense dedication. “He’s got that old-school mentality,” Weldon says. “He works an honest eight hours for eight hours’ pay. His work ethic really shows in the way the plant looks.”

**STEPPING UP**

The team’s dedication comes in handy when big jobs need doing. Late last year, the team at Riverview replaced 1,689 old ceramic diffusers in each

of two aeration basins with membrane diffusers. “That was one of the more challenging projects we’ve done in the past few years,” Weldon says. “We did one whole basin in four days, pulling the old ones out, putting the new ones in, making repairs here and there, and filling the basin up again.”

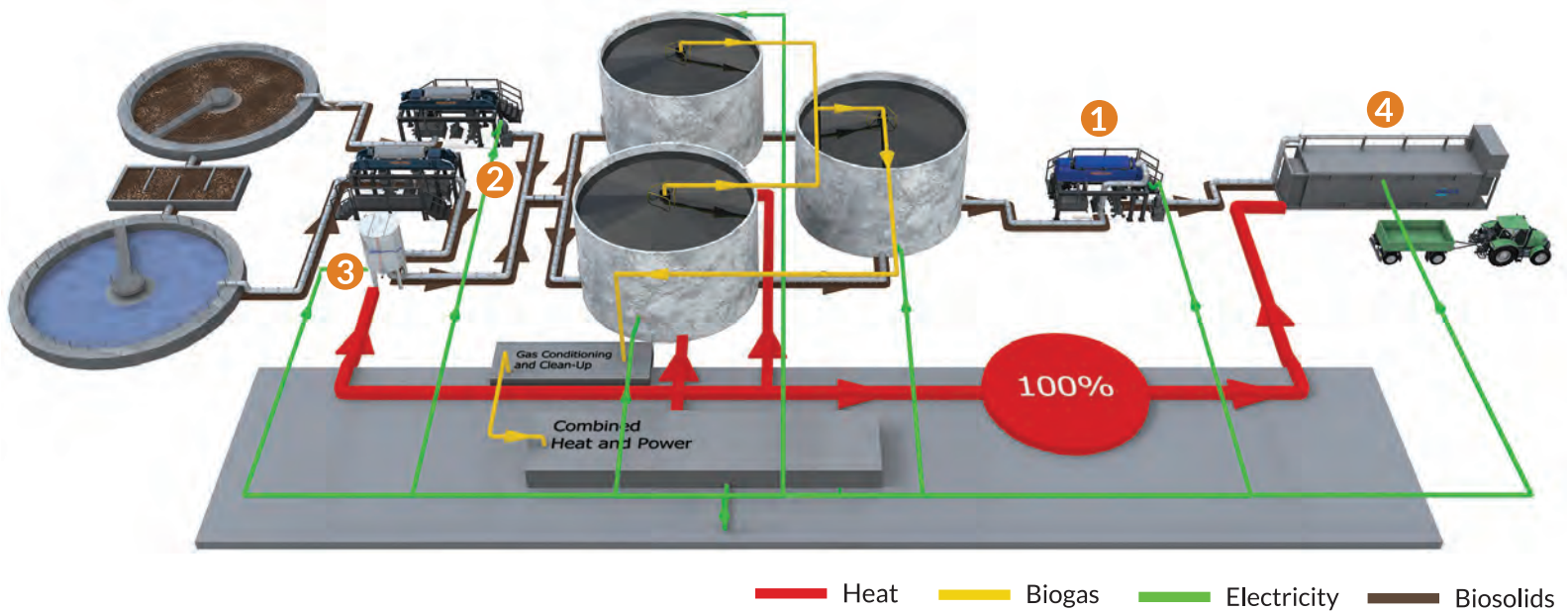
Weldon’s basic advice to operators is to pay attention to their senses: “If you get out into the plant and make regular rounds, you get to know your plant. You know what it’s supposed to look like, sound like and smell like. If you pay attention to your senses when the plant is running tiptop, then you’re going to notice when it’s not. Before the lab results or anything else, the operators’ senses are the first line of defense.”

All in all, he’s glad he made the switch to the water business. “I’ve got great backing from the leadership of SouthWest Water and a great team of guys around me. I really can’t say enough about them. I appreciate the work they do every day.” **tpo**

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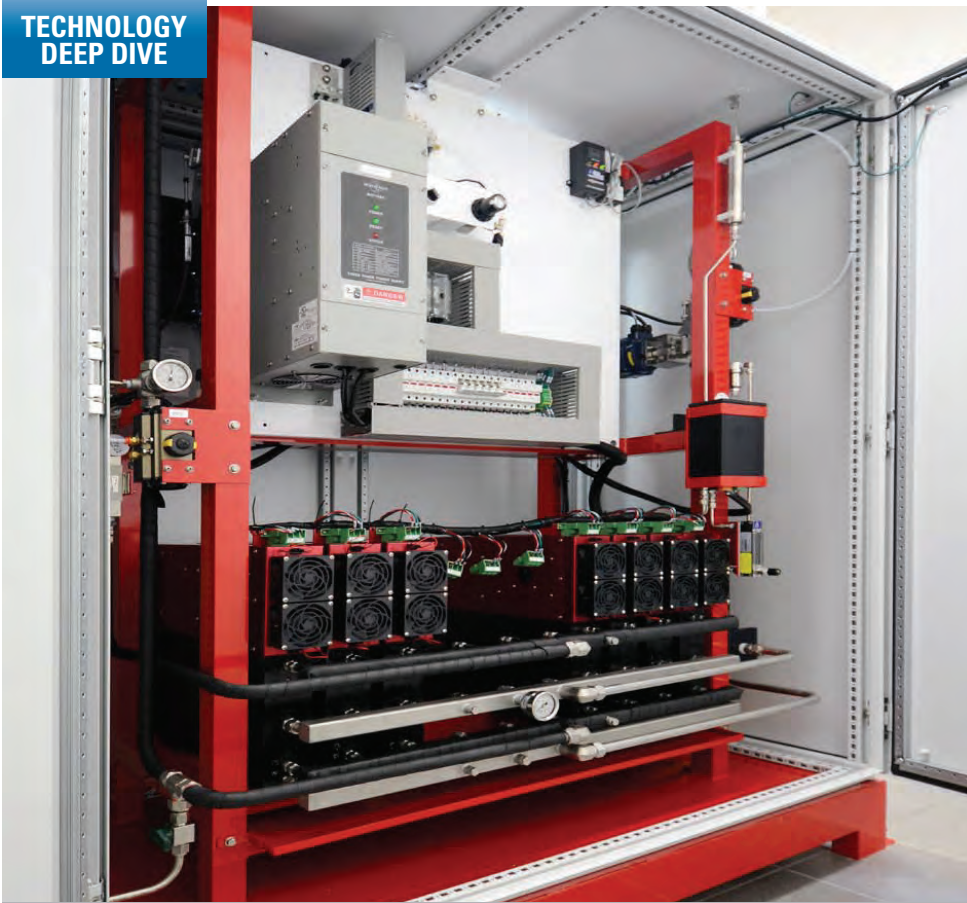
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“ We also see tremendous demand [for ozone technology] in smaller communities that have the same treatment challenges as larger plants, just less plant water flow.”

ERICH DELANG

Open cabinet shows QuadBlock technology.

## Smaller Is Beautiful

A MODULAR OZONE GENERATION TECHNOLOGY PROVIDES AFFORDABLE WAYS FOR WATER UTILITIES TO DEAL WITH TODAY'S AND TOMORROW'S TREATMENT CHALLENGES

By Ted J. Rulseh

Ozone treatment is a proven technology for disinfection and for removal of odor, taste, and color in drinking water systems. Keys to ozone system performance include reliability, flexibility and operating cost.

Demand for ozone technology is growing, notably among smaller water utilities, and it has the potential to expand even more with rising attention to a class of compounds known as contaminants of emerging concern, or CECs.

In this market environment, Aqua-Aerobic Systems has introduced modular ozone generating systems under the Aqua ElectrOzone M-Series name. The company acts as the exclusive distributor in the U.S. municipal market for these and other treatment systems manufactured by Pinnacle Ozone Solutions.

The system is designed for safe operation and cost-effective treatment. The technology is well-suited for potable water and wastewater treatment, water reuse, and industrial applications. It provides modular expandability and operating costs 40 to 60 percent lower than for legacy ozone systems, according to Erich DeLang, product manager with Aqua-Aerobic Systems. He talked about the technology in an interview with *Treatment Plant Operator*.

**tpo: What drove the introduction of this technology to the municipal market?**

**DeLang:** Our company has supplied some of the largest ozone drink-

ing water treatment installations in the world. But we also see tremendous demand in smaller communities that have the same treatment challenges as larger plants, just less plant water flow. With the ElectrOzone M-Series, we are targeting installations requiring less than 500 pounds of ozone per day.

**tpo: How does modularity fit into the demand picture?**

**DeLang:** Many smaller communities start out treating a certain stream of water but then experience population growth and want to add capacity without having to completely uninstall the system that's in place and install a different one.

**tpo: What does the modularity actually mean in relation to this series?**

**DeLang:** It is a very compact technology. The power supply unit and the ozone generator are combined in one cabinet. The system consists of QuadBlock units that can be individually pulled, replaced and added onto without changing the overall architecture of the generator. It's also very simple. There are only six main connections to make when installing the generator: controls in and out, cooling water in and out, oxygen in, and ozone out. There's also a small amount of compressed air to drive some pneumatic valves. Startup on these systems usually takes less than two weeks versus many months on some bigger ozone generator projects.



**tpo:** How would you describe the ozone treatment process using this technology?

**DeLang:** This is a coronal discharge technology, as distinct from ozone generation by UV light. Most ozone systems of appreciable capacity are coronal discharge, and that has some significant advantages. At the same time, there are key differences between our technology and others. The system uses QuadBlock units, each including four oxone generation chambers with two dielectrics in each chamber. Each QuadBlock is run by an individual microprocessor. Therefore, if you lose one QuadBlock, the system automatically increases the pulse density of the power to the other QuadBlocks to make up the difference. One dielectric drops off, and the others kick up to fill the gap. You don't even see a blip in production capacity.

**tpo:** Does this configuration have any other benefits?

**DeLang:** The microprocessors are also programmed individually. So if you call the factory and say you have a dead QuadBlock, they can look at their database, take the software program for the dielectric that's coming out of your generator, program a new QuadBlock specifically for your installation, and ship it in a couple of days. You just pull out the old QuadBlock, put the new one in, make the connections and turn it on. It will pick up right where you left off.

**tpo:** What accounts for the energy savings potential of these units?

**DeLang:** High-frequency operation in excess of 20 kHz allows the QuadBlocks to operate at high power density levels. The combination of higher operating frequency and power densities accounts for the energy savings.

**tpo:** What control strategies can be used with this treatment technology?

**DeLang:** The system can be set up to feed ozone in three ways. One is simply constant production of

“ We believe many of the CECs will come under regulation, and oxidation is an excellent method for dealing with them.”

ERICH DELANG

so many pounds per day. Another is to use the plant water flow in conjunction with ozone output instrumentation to provide a constant dose to the system. A third is to connect an external ORP, dissolved ozone, or color sensor to the ozone system and maintain a desired level based on a user-defined setpoint.

**tpo:** What kinds of problems do you envision utilities solving with this technology?

**DeLang:** We're seeing taste and odor applications from hydrogen sulfide in groundwater to algae blooms and lake turnover effects in reservoirs with odor compounds like geosmin and 2-MIB, which are much harder to oxidize. Another benefit of ozone is that it is much less likely to form serious disinfection byproducts. So for example, if ozone is used for primary disinfection before chlorine or chloramines as

secondary distribution disinfection, the ozone will have oxidized much of the TOC that would otherwise combine with the chlorine downstream to form trihalomethanes or haloacetic acids.

**tpo:** How might ozone play a role in dealing with CECs?

**DeLang:** We believe many of the CECs will come under regulation, and oxidation is an excellent method for dealing with them. As these contaminants move from the CEC list into secondary or primary drinking water standards, we see small, modular ozone systems as a serious way for smaller communities to address that issue. **tpo**



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# *Little Big* Utility

PRESTONSBURG WATER PLANT TEAM MEMBERS DEAL WITH AN EXPANSIVE TERRITORY AND VARIABLE SOURCE WATER TO DELIVER A CONSISTENTLY HIGH-QUALITY PRODUCT

STORY: **David Steinkraus** | PHOTOGRAPHY: **Craig Hudson**



A testing system simulates floc levels in the processed water at the Prestonsburg filtration plant.



**THE EASTERN KENTUCKY CITY OF PRESTONSBURG** sits in a valley of the Appalachian foothills, and from there, the water utility's pipes stretch out to surrounding areas and across county lines.

"We're one of the biggest small-town utilities that I know of," says Donald Compton, water and wastewater treatment manager. That, along with highly variable-quality source water, means daily challenges for the plant operations team.

The plant has seen three substantial upgrades since it opened in 1957. That includes the most recent plant expansion in 2005 to the current 5 mgd design capacity (average production is 2.5 mgd).

## FAR AND WIDE

The Prestonsburg plant serves most of the northern end of Floyd County (population 37,000), but there's much more to the utility distribution system. Just over the border in Martin County lies the largest customer: a maximum-security federal prison with a minimum-security work camp.

Area communities attracted the prison for the jobs it created in the prisons and at businesses that the inmates' visitors use. Martin County couldn't provide enough water for the prison, so Prestonsburg stepped in and now usually fulfills 100 percent of the prison's demand of 250,000 to 270,000 gpd.

The federal government and Prestonsburg utility shared the cost of laying about 20 miles of pipe from the Prestonsburg plant, and the city added a few residential customers along the route. Martin County built a 1-million-gallon storage tank above the prison; Prestonsburg built a smaller tank below the prison to feed the pump station that pushes water up to the larger tank.

Recently, the city acquired about 1,200 water customers from another utility that was already buying Prestonsburg water for them. So the city now has a 15-mile run of pipe to the southeast and up to the border of Pike County.

## NO MORE CHLORINE

Being in a developed area of the community, the plant faced issues with its original chlorine disinfection. In 2005, the utility stepped away from using chlorine gas to reduce risk to its neighbors, which include a school with 750 students, a nursing home, and a large residential area. Only half a dozen of the 1-ton chlorine cylinders were kept on site at any time. Because of the handling risk, Compton wouldn't let any team member change a cylinder alone, and that sometimes meant calls at 2 a.m. when a cylinder was empty.

"We would limit chlorine deliveries to before 7:30 a.m. or after 3:30 p.m. so that just in case something did happen, students wouldn't be in the school," Compton says. The Fire Department provided hazmat protection, but the utility paid for the firefighters' protective suits and for drills.

In place of chlorine, the city installed a MIOX system, which uses electricity to convert a brine solution to chlorine and other byproducts. A 45-ton

## Prestonsburg (Kentucky) Water Filtration Plant

BUILT: | 1957; updates 1983, 1993, 2005

POPULATION SERVED: | 23,960 (8,907 connections)

SERVICE AREA: | 210-plus square miles

EMPLOYEES: | 6

FLOWS: | 5 mgd design, 2.5 mgd average

SOURCE WATER: | Levisa Fork, Big Sandy River

SYSTEM STORAGE: | 5 million gallons

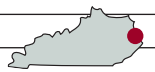
DISTRIBUTION: | 350-plus miles of water mains

ANNUAL BUDGET: | \$9 million (operations)

KEY CHALLENGE: | Variable quality in source water

WEBSITE: | [www.prestonsburgwater.com](http://www.prestonsburgwater.com)

GPS COORDINATES: | Latitude: 37°40'5.84"N; longitude: 82°44'35.73"W







Tim Goble, water treatment plant manager, looks ahead to a major plant upgrade that will add two filters and retrofit the floc basins with variable-speed drives.

new intake, a pair of 100 hp pumps (KSB) pulls water into a 20-inch manifold to one 20-inch line that feeds a single 16-inch pipe entering a building equipped with a Grit King grit separator (Hydro International). The older intake has a pair of 75-inch Pentair Water - Hydromatic pumps.

“We have used that older intake quite a bit when conditions in the river plugged the new intake, even though we have an airburst on the screen,” Compton says. “The river is aptly named Big Sandy.”

No one knows the exact cause of the plugging because there is no way to see into the river, he says. The new intake is about 6 inches lower than the old one, so possibly river bottom sediment enters the intake during times of high turbidity. Another possible cause is leaves in the water after storms. Between 30 and 40 miles

upstream is a flood-control lake and dam, and water it releases may still be roiling when it reaches Prestonsburg. It’s not uncommon to see 1,500 NTU or higher in raw water during heavy flows. The highest recorded turbidity at the plant is 11,500 NTU.

The intake screens have openings of about one-eighth inch, and to improve the flow, the city hired divers to blow some 1- and 2-inch holes into the screens. “It doesn’t stop up as much, but the holes mean we have larger debris



The Prestonsburg plant uses a MIOX system for disinfection in place of chlorine, using an Allen-Bradley PanelView Plus terminal (Rockwell Automation).

salt silo holds the base material. “With MIOX, the dangers are greatly reduced,” Compton says. “The product tank smells like an overchlorinated swimming pool.”

## RIVER CHALLENGE

Also in 2005, the utility installed a new raw water intake. Prestonsburg draws its entire supply from the Levisa Fork of the Big Sandy River. At the

“We would limit chlorine deliveries to before 7:30 a.m. or after 3:30 p.m. so that just in case something did happen, students wouldn’t be in the school.”

**DONALD COMPTON**

coming in,” Compton says. That can be handled by the Grit King grit separator, along with good maintenance of the flocculation basins.

From the separator, the water goes into a Chemineer flash mixer from NOV and then into the floc basins, equipped with single-speed drives. There are three settling basins — two conventional and one with a lamella plate system. Four mixed-media filters come next — two using gravel, sand, and anthracite, and two updated in 2011 to use sand and anthracite with a Leopold - a Xylem Brand IMS cap support. Then comes post-treatment with MIOX and fluoride. A 750,000-gallon clearwell split into four sections feeds two 300 hp distribution pumps (Aurora Layne/Verti-Line). A U.S. MOTORS 75 hp pump (Nidec Motor) handles backwashing. *(continued)*





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Manager of Treatment Donald Compton and the team won the 2016 Drinking Water Plant Award from the Kentucky Water and Wastewater Operators Association.

The Stonecrest baseball complex stands on a hill above the city; pipes run to the top of the 2,000-foot hill where there are three storage tanks, one for reuse water from the wastewater plant, used to irrigate a nearby golf course. One tank is elevated to provide pressure to buildings on the hilltop.

## REAPING RECOGNITION

The city's accomplishments haven't escaped notice. In 2016, Prestonsburg won the Drinking Water Plant Award from the Kentucky Water and Wastewater Operators Association. The Prestonsburg team also won the Kentucky Water and Wastewater Operators Association Water Treatment Plant of the Year award in 2009.

From the Kentucky/Tennessee Section American Water Works Association, Prestonsburg won the Small Plant Award in 1997 and the Medium Plant Award in 2011. In addition, the team has five top 10 finishes for the Kentucky Rural Water Association's Wooden Bucket Award for customer relations and high-quality services.

It takes a skilled team to make it all happen. Plant team members are Tim Goble, water treatment plant manager, and operators Woody Jarrell, Larry Josh Slone, Darrell Crider, and Charlie Rice. "I have an outstanding staff," Compton says. "They take a lot of pride in their jobs. All the awards are a tribute not just to our staff, but to the entire utility." *(continued)*

## HELPING STUDENTS TO NEW CAREERS

In summer, Prestonsburg, Kentucky, runs a help program to hire young people for seasonal jobs: college students and a few new college-bound high school graduates. The program does more than provide summer income; it can spark students' interest in engineering and water technology.

"If we get an application from someone who's interested in water or wants to work at the water plant, that person will be steered toward me," says Donald Compton, water and wastewater treatment manager. Those interested in wastewater are steered to that department.

Students rehired after their first summer have the chance to go out with workers and learn the operation in more depth. "Our current water treatment plant manager, Tim Goble, was in our summer help program for two or three years," Compton says. The college where he studied accounting had a small water plant, and he helped run that as part of his tuition payment.

The program isn't intended to attract only future plant operators. Usually six to eight students are hired and are spread across the utility: water plant, natural gas service, construction and other areas. Students pick up garbage, do painting and maintenance, and generally keep busy.



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The Prestonsburg plant team, shown with their 2016 Drinking Water Plant Award from the Kentucky Water and Wastewater Operators Association, includes, front row, from left, Woody Jarrell, Larry Josh Slone and Darrell Crider; back row, Charlie Rice, Donald Compton and Tim Goble.

The utility is led by Turner E. Campbell, the new superintendent and CEO, who was chief financial officer for more than 15 years. Brian Music, distribution manager, works with the treatment plant to keep water flowing, and distribution crews lend a hand at the plant for maintenance. William Campbell, administration manager, oversees the warehouse and purchasing. All three are also certified operators and can assist at the plant if there is an issue.

Looking ahead, a multimillion-dollar plant upgrade is in the works for 2018. Final plans are still taking shape, but the project will add two filters and retrofit the flocc basins with variable-speed drives. The two settling basins without lamella plates will be retrofitted with them to improve efficiency.

If demand increases, that will require more extensive changes, such as additional pumps and the clearwell capacity. "The question is whether another utility needs help," Compton says. If the city were to become the sole supplier to the prison, that would be a factor. Prestonsburg also sells water to the city of Martin and to the Southern Water District, which covers the southern part of Floyd County.

### STAYING PROACTIVE

While operations proceed day to day, the utility has dealt successfully with residents' concerns about water quality. The utility's website includes a page about chromium 6 (hexavalent chromium), even though it's not an issue for Prestonsburg's water quality.

"We were just taking an aggressive approach to a social media frenzy," Compton says. In fall 2016, news stories reported sampling results from the EPA Unregulated Contaminant Monitoring Rule and California's independently set low chromium

“I have an outstanding staff. They take a lot of pride in their jobs. All the awards are a tribute not just to our staff, but to the entire utility.”  
**DONALD COMPTON**



Donald Compton, left, manager of water and wastewater treatment, and Tim Goble, water treatment plant manager

limit. Customers then began asking whether chromium 6 and other substances were in the city's water.

The webpage leads readers through a Q&A discussion of chromium, including the results of Prestonsburg's testing and the specifics of the EPA chromium rule. "Once we put the post out there, I believe we didn't hear anything after that," Compton says.

Meanwhile, last year, the utility took third place in a Kentucky water tasting contest, the first one the utility entered in Compton's time with the city, going back to 1985. "I looked at the agenda for a conference, saw they had a best-tasting water contest and thought we should see where we stand," Compton recalls.

It was another small triumph for a big small-town utility. **tpo**

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Students take part in experiments focused on the properties of water.

“It’s important that our citizens, and in our festival’s case, our future ratepayers, know how much work goes into bringing them safe, clean water.”

**KELLEY DEARING SMITH**

# A Decade’s Worth of Splash

LOUISVILLE WATER’S ADVENTURES IN WATER FESTIVAL CELEBRATES 10 YEARS OF INFUSING STUDENTS WITH PASSION FOR WATER AND ITS PROTECTION

By Craig Mandli

Leaders at Louisville Water admit that their first attempts at school outreach more than 10 years ago were a failure. Fortunately, they weren’t deterred.

In the mid-2000s, water company educators invested in a floating barge classroom where they planned to teach elementary and middle school students about the water journey right on the Ohio River.

It seemed like a great idea, but it fell flat. “For whatever reason, the barge classroom just didn’t work. We couldn’t get the students out there,” says Kelley Dearing Smith, vice president of marketing and communications. “We decided to take the students to Water Tower Park instead and teach them about the pumping station and the river. That’s how the Adventures in Water Festival began.”

## A HUGE EVENT

Last October, nearly 1,600 students and two dozen community organizations met at the 10th annual festival. It welcomed fourth- through seventh-graders from 24 public and private schools for hands-on activities in stations provided by Louisville Water community partners, including the Kentucky Science Center, WaterStep International, the Kentucky Depart-

ment of Fish & Wildlife Resources, and the Louisville Fire Department.

“Our objective is to connect these students with real-world examples of water,” Dearing Smith says. “We have to be proactive. We are building a new generation of kids who value water.”

The festival featured the Louisville Water Men’s Tapping Team, demonstrating how they compete with other teams around the country. Students were not only surprised at how quickly the team worked, but by just how many taps and hydrants water company employees maintain. “Waterlines are tapped into every building in the city, and our crews maintain more than 24,000 hydrants,” Dearing Smith says. “I think it’s safe to say that most people don’t put that together.”

Students also saw Ohio River fish in a 2,200-gallon tank and had a blast learning how to spray a fire hose. “I love the way the festival is set up in 20-minute stations,” notes Shannon Dauenhauer, a fifth-grade teacher at St. Martha Catholic School. “It keeps the kids moving, keeps their attention. They get excited about what they are learning about water, and it can generate further discussion back at school. It’s great because students get to hear lectures, see visuals and experience hands-on learning.”

*(continued)*



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## ROOM TO GROW

Dearing Smith observes, “A big part of the festival is that gee-whiz experience that young kids are really going to remember, like the fire hose or the huge fish tank. We don’t go into detailed technical information. It’s more of a jumping-off point to get these kids really thinking about where their water comes from.”

The festival has been held at Water Tower Park every year except 2014, when it moved to Waterfront Park as part of the centennial festival for the city’s iconic steamship, the Belle of Louisville.

The free festival began as “an extension of our education work in the schools,” says Dearing Smith. “When we started, we wanted the festival to be a small-scale experience on a big piece of property. Small groups traveled to four or five water stations. Our message to the community partners was that their experiment or demonstration had to relate to water, and the experience had to be hands-on, interactive, meaningful, and relevant to the students.”

Schools can have students attend either a morning or afternoon session during the three-day event. Every school group gets a Louisville Water experience, which can include a tour of Water Tower Park (with a peek inside the tower) and a behind-the-scenes look at how drinking water reaches home faucets.

Dearing Smith believes that it’s important that students acquire the knowledge of their water system at an early age. Too many times, she says, people typically only hear about a water system when something goes wrong.

“Often the only time you hear from a water utility is when they either want to raise your rates or when something breaks,” she says. “It’s important that our citizens, and in our festival’s case, our future ratepayers, know how much work goes into bringing them safe, clean water.”

Despite that important message, though, municipalities often look at communication and outreach as “low-hanging fruit” when consider-

### What’s Your Story?

**TPO welcomes news about your public education and community outreach efforts for future articles in the Hearts and Minds column. Send your ideas to [editor@tpo.com](mailto:editor@tpo.com) or call 877-953-3301.**

Firefighters let students experience the handling of a fire hose.



Students tour the WaterWorks Museum in Louisville Water Tower Park.

Since 2007, the festival has hosted 195 school groups (about 18,000 students) and 50 community partners. Dearing Smith says that many teachers have included the lessons taught at the festival in their yearly curriculum.

“We’ve actually had some teachers here since the beginning of the festival,” she says. “It’s become so popular that they need to book their spots the summer before the event. It is a great fit for their curriculum, and the sessions are short, so the kids stay engaged.”



Elementary students observe dozens of fish native to the Ohio River in a 2,200-gallon tank.

ing budget cuts. Dearing Smith says that operating with that philosophy is a grave mistake.

“When you look at all the negative publicity in the recent past, especially with the Flint crisis, water systems can’t afford to not let people know what they do,” she says. “All water systems have the ability to tell a great story. You can’t give up! Those need to be celebrated!” **tpo**





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# Drying Out a Wet Well

DIRECT INLINE PUMPING OF INFLUENT BOOSTS EFFICIENCY AND ELIMINATES A CONFINED-SPACE HAZARD FOR A SMALL CLEAN-WATER PLANT IN WESTERN NEW YORK

By Ted J. Rulseh

The team at the village of Sherman's clean-water plant in New York faced frequent and hazardous confined-space entries to de-rag pumps in the influent wet well. A new pump installation lasting just under 12 hours made the problem go away.

The village team installed a direct inline pumping, or DIP, system in which submersible pumps installed in a wet well and activated by floats are replaced by pumps that are directly connected to the lift station inlet and outlet.

The pumps run continuously, ramping their speed up and down according to the incoming volume. In the process, the pumps grind up wipes and other trash so that it can pass through without causing clogs. Online since mid-January, the system has been trouble-free and has saved significantly on labor.

## TROUBLESOME ENTRIES

Sherman, a rural community of 730 on the far west end of New York, has a 40-year-old 140,000 gpd (design) package treatment plant that achieves more than 99 percent BOD and TSS removal. It includes two circular process tanks (only one in operation), each with an aeration zone, a contact stabilization zone, a digester, and a stilling well in the middle.

Wastewater from the village flows entirely by gravity to an influent wet well on the plant property. The lift station lies 20 feet in the ground. Before the DIP system was installed, a pair of centrifugal pumps lifted the influent to the plant headworks.

"The biggest concern I had was a safety issue with climbing down into that steel lift station vault through a 36-inch silo access," says Jay Irwin, chief operator. Those entries required complete confined-space entry gear and safety procedures.

"Second, with those pumps aging, we were having to go down quite often, shutting down one pump and taking it apart to clean it," Irwin says. "The pumps would get clogged quite often with mop rags that would build in the wet well. We would go in there once a week to clean the bar screen, and we would also go down every two to three months, using a septic tank cleaning truck to pull everything out of there and start over."



PHOTOS COURTESY OF THE VILLAGE OF SHERMAN

The completed DIP system installation shows a dry space with easily accessible equipment in place of a hazardous wet well environment.



Flanges connect the lift station inlets directly to the pumps.

## A BETTER WAY

While looking to solve those problems, Irwin read about the DIP technology in *Treatment Plant Operator* magazine (June 2016 issue). He contacted Jon Dunham, key accounts manager for the vendor, C&B Equipment. "I sent him the engineering specifications for our lift station and wet well, and he emailed a quote for the system at \$63,000," Irwin says.

The installation includes a pair of 15 hp 1 System DIP101R/4VV pumps, each rated for 360 gpm at 40 feet of total dynamic head. The pumps are equipped with variable-frequency drives, dry-run protection, and DIPCUT impellers, changeable without special tools.

"One pump can handle 100 percent of our normal flow," Irwin says. "It's nice to know we have plenty of pump power, especially since we have an I&I issue. When we get heavy rains or thaws, we have enough capacity without any problem."

The system was delivered essentially plug-and-play. Wastewater from the collections system enters the vault through a 12-inch pipe, and wastewater



from the plant itself enters through an 8-inch pipe. Flanges anchored to the vault wall deliver influent directly to the pump inlets. On the discharge side, 6-inch PVC pipe connects the pumps to the existing 6-inch lift station discharge line.

“It turned the wet well into a dry pit,” Irwin says. “Eventually we will fill the bottom of the well with stone and pour a concrete floor.”

## QUICK INSTALL

After preparations were made, the actual DIP system installation took just 11.5 hours. During the project, wastewater was bypassed using a trailer-mounted trash pump. Koester Associates, local representative for C&B Equipment, led the installation, the first DIP system in the state.

Irwin and assistant Dennis Watson helped Koester Associates workers Chris Frechette, Brian Osborn, and Rick Hoffman with the project, as did Doug Crane and Larry Meeder from the Sherman Street Department. Matt Oehlbeck of the nearby North County Chautauqua Lake Sewer District brought a truck with a crane to lower the equipment into the well. Byron Gens from the neighboring village of Westfield brought a vacuum truck to empty the wet well before installation. A month earlier, Oehlbeck and Gens helped remove a catwalk and other structures to prepare for the project. “Getting the system into the well in one day was a big feat, and I couldn’t have asked for a better crew,” Irwin says.

“It’s a very innovative technology. It got rid of our confined-space issues. I know it’s going to save us a lot of man-hours.”

JAY IRWIN

Startup ran smoothly with assistance from Stefane Dumonceaux, owner of S.I.D.E. Industrie, the DIP System manufacturer. An OmniDIP control enables the system to continuously send operating data for remote monitoring. The pumps are installed about 10 feet below the surface in an 8-foot-diameter space. “Essentially it’s like a workroom,” Irwin says. “It’s still a confined space, but not nearly as hazardous an environment as when it was a wet well with open water.”

## RELIABLE PERFORMANCE

In operation, the pumps run continuously; the variable-frequency drives adjust the speed according to the influent flow. The flow rate is measured by a transducer installed in the lower part of the inlet; it measures the depth of the flow over it, and the output from the transducer determines the speed of the pumps. If there is no flow, the pumps stop until flow begins again.

The pumps are self-cleaning with a special impeller design that allows wipes, rags and other trash to pass through after being shredded. When a solid object impedes the impeller, the torque increases and the control system senses that the pump is becoming clogged. The pump then automatically slows down, stops and reverses direction.

At that point, knives on the impeller pop up and shred the trash. When the control senses that the pump is running free again, it slows down, stops, and returns to the normal pumping direction. The control system is fully programmable. Users can check on or adjust pump operation remotely using a smartphone, tablet or desktop computer.

Irwin observes, “It’s a very innovative technology. It got rid of our confined-space issues. I know it’s going to save us a lot of man-hours. If we have issues, the equipment is easily accessible. We don’t have go down into a silo 20 feet deep. Everything is right there.” **tpo**

## Share Your Ideas

TPO welcomes news about interesting methods or uses of technology at your facility for future articles in the How We Do It column.

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# ALL-AROUND PERFORMERS

EXPERIENCE AND CROSS-TRAINING MAKE ROCKY MOUNT TEAM MEMBERS HIGHLY SELF-RELIANT IN MAINTAINING AND REBUILDING THEIR WASTEWATER TREATMENT PLANT

STORY: **Jim Force** | PHOTOGRAPHY: **Joe Hermitt**

STAFF MEMBERS AT THE ROCKY MOUNT (VIRGINIA) wastewater treatment plant don't mind getting their hands dirty. In fact, that's a point of pride, according to Tim Burton, plant superintendent.

"We do most of our own maintenance," Burton says. That includes rebuilding everything from seven pump stations to the treatment plant equipment at this 2.0 mgd (design) advanced secondary plant in the Blue Ridge Mountain region of Virginia.

Burton and team members Brian Sink, Jason Jones, Dennis Potter, and Joseph Cerebe have a combined 79 years' experience in wastewater treatment. All are lab-certified and cross-trained and have responsibility for all CCTV inspections of the town's collections system. "They make me look good," Burton says.



Tim Burton and the Rocky Mount plant team rely on a SCADA system powered by Ignition software (Inductive Automation).

## STEPPING UP

For many years, Rocky Mount operated an aging trickling filter-chlorination facility. The current plant, online since 1994, was built farther downstream and can meet strict treatment standards designed to protect endangered Roanoke perch in the Pigg River, the plant's receiving stream.

The current plant draws wastewater through seven lift stations equipped with Gorman-Rupp pumps. Preliminary treatment consists of a fine screen

with screw compactor, two grit chambers and a grit classifier. The grit chambers are operated on an alternating schedule.

The water then passes through an ultrasonic flow measurement device and a Parshall flume to a three-tiered Envirex Orbal oxidation ditch (Evotqua Water Technologies). Nitrification-denitrification takes place in the outermost ring, with good results. "The two inner ditches have the same capacity as the outer ditch," Burton says. "We control MLSS, pH and DO. It's the heartbeat of our plant."

Treated wastewater settles in two 65-foot-diameter Envirex clarifiers. Two TrojanUV units disinfect the effluent. Post-aeration follows before discharge to the river. Two 200,000-gallon aerobic digesters stabilize and thicken the biosolids, which are stored in the digesters for up to 30 days. A filter press (Alfa Laval) dewater-

ters the material; the 16 percent solids cake is trucked to the Franklin County landfill.

The facility sends about 8 to 10 dry metric tons of solids a month to the landfill. There is no cost for landfilling since the plant in turn processes the landfill's leachate. It's an equitable trade-off. "It's good that the town and the county get along," Burton says. "You don't always see that with localities."



Tim Burton estimates his staff does 95 percent of plant repair and maintenance: "There are very few places that our crew hasn't repaired or rebuilt."



The Virginia Department of Environmental Quality designates Rocky Mount as a benchmark plant for its maintenance practices and performance record.

## Town of Rocky Mount (Virginia) Wastewater Treatment Plant



BUILT: | 1992-1994

POPULATION SERVED: | 5,000

AREA SERVED: | **Mainly town of Rocky Mount**

FLOWS: | 2 mgd design, 0.75 mgd average

TREATMENT LEVEL: | **Secondary**

TREATMENT PROCESS: | **Oxidation ditch, clarifiers, UV disinfection, post aeration**

RECEIVING WATER: | **Pigg River**

BIOSOLIDS: | **Landfilled**

ANNUAL BUDGET: | **\$500,000 (operations)**

WEBSITE: | **www.rockymountva.org**

GPS COORDINATES: | **Latitude: 36°59'10.46"N; longitude: 79°53'1.63"W**





The Rocky Mount team includes, from left, Dennis Potter, Class I operator; Tim Burton, plant superintendent; and Jason Jones, Class I operator.

### Town of Rocky Mount (Virginia) Wastewater Treatment Plant PERMIT AND PERFORMANCE

	INFLUENT (Five year monthly avg.)	EFFLUENT (Five year monthly avg.)	PERMIT
<b>BOD</b>	246 mg/L	2.0 mg/L	17.5 mg/L
<b>TSS</b>	223 mg/L	2.6 mg/L	30 mg/L
<b>Ammonia</b>	Not measured	0.1 mg/L	2.84 mg/L
<b>DO</b>	Not measured	9.3 mg/L	6 mg/L

### EQUIPPED TO GROW

The on-site laboratory is a Division of Consolidated Laboratory Services accredited lab, and the plant staff performs all BOD, TSS, pH and *E. coli* testing. “We don’t send much out except tests for permit renewals and annual toxicity testing,” Burton says.

Plant designers installed piping in the ground to handle future expansion. “The lab building is oversized,” Burton says. “We could easily double treatment capacity here by adding another oxidation ditch, clarifiers, and digester, although that is some distance off in the future. But if the town grows, we can grow with it.”

## LIGHTS THE WAY

Tim Burton not only swears by his UV disinfection system, he has figured out how to save money and assure a near-100 percent pathogen kill rate.

“Our old plant used chlorine, but we switched to UV disinfection in the new facility to meet the endangered species requirement in the receiving stream,” says Burton, superintendent of the town of Rocky Mount (Virginia) Wastewater Treatment Plant.

Two TrojanUV 3000 UV units were installed when the plant went online in 1994. Each channel had a capacity of 3.0 mgd, designed for alternating use. Since then, Burton and his staff have upgraded one of the channels, using a newer TrojanUV 3000Plus unit. That has yielded significant operating cost savings.

“The older units have 192 bulbs and a capacity to treat 3.0 mgd, whereas the 3000Plus channel has two units with 24 bulbs each, and each unit is capable of disinfecting 3.0 mgd,” Burton says. “Even though the bulbs cost more, our electrical costs are much lower.”

The new units also have wipers, which save time and money by reducing maintenance and cleaning. Burton says staff members were concerned about color in the effluent and were worried about maintenance costs and cleaning of the UV units. “There is no color,” he says. “Maintenance costs are less than with chlorine, and physical cleaning of the units is only twice a year. Plus, we have a backup unit and are assured of a kill rate of nearly 100 percent. That gives us peace of mind.

“When we started, we didn’t know anything about UV disinfection. We were familiar with chlorine. But now, as far as we’re concerned, UV disinfection is the only way to go.”

The plant is monitored by a SCADA system powered by Ignition software (Inductive Automation) that was installed by American Mine Research, or AMR. “We love it,” Burton says. “It has unlimited tags, which means we don’t have to go back to the company and buy more each time we add to it.” The system is integrated into the town communications system, and the pump stations feed information back to the plant. Plant staff is on hand eight hours a day and can be alerted to emergencies through an alarm system that triggers phone calls to operators.

Plant performance is exemplary. Monthly averages for BOD, TSS, ammonia and other parameters come in well below requirements. Rocky Mount is designated as a “benchmark” plant by the Virginia Department of Environmental Quality, meaning it was one of the first in the state to use some of the specific processes, and its maintenance practices and performance record are pace-setting.

### VERSATILE TEAM

Maybe because Rocky Mount was a trailblazer in the state in the use of a three-tiered oxidation ditch paired with UV or maybe because of the experience the staff has racked up at the treatment plant and with the town — whatever the case, Burton and his team are a study in self-reliance. They’ve learned to operate the system effectively and maintain and rebuild it as needed, with minimum outside assistance and cost.

“When we started, we didn’t know anything about operating an oxidation ditch or UV disinfection,” Burton recalls. The staff took advantage of training supplied by equipment manufacturers and then became cross-trained in every aspect of plant and lab procedures.



“There are very few places around the plant that our crew hasn’t repaired or rebuilt. One thing about building a new plant is that everything seems to start wearing out at the same time.”

**TIM BURTON**

“Unless it’s a major electrical project or it requires specialty equipment, we do all the rebuilding of equipment ourselves,” Burton says. “Pumps, the UV units, lift stations, light electrical. With our SCADA system, we installed all of the equipment, ran all of the wiring and took care of everything except connecting the wires and programming. It brought our costs down.”

### OLD-SCHOOL MAINTENANCE

Recently, the Rocky Mount team changed out the compactor behind the fine screen and made it ready for the electricians. “We took care of everything from bidding the equipment to installing it and made it ready to operate,” Burton says. Outside the plant, the staff serves as the early-warning system for the town’s sanitary and storm sewer lines, using a Vivax-Metrotech vCam-5 push camera and a R.S. Technical Services Inc. (RST) TrakSTAR camera and tractor.

“We operate our own cameras, handle flow measuring and conduct infiltration studies,” Burton says. “We have a lot of 6-inch lines, so we use the heck out of our push camera. If we find a problem, we turn it over to our Public Works department.”

Rocky Mount follows a regularly scheduled maintenance program. “We rotate out of the lab weekly,” Burton says. “One operator is in the lab, and the others are on maintenance or camera work. We do maintenance on a weekly, monthly and every-six-months schedule. We use our own designed system. Most of it is old-school, using notebooks and log sheets.”

Burton estimates his staff does 95 percent of the repair and maintenance around the plant: “There are very few places around the plant that our crew hasn’t repaired or rebuilt. One thing about building a new plant is that everything seems to start wearing out at the same time.”

### NEW CHALLENGES

That’s one of Burton’s and Rocky Mount’s biggest challenges: budgeting and trying to predict capital expenses based on necessary future improvements. “Nothing’s cheap,” Burton says. “We’re trying to stay ahead of the curve.” He and his staff tend to take a piecemeal approach to replacements so the town budget doesn’t get hit all at one time.

Other challenges include enforcing a new fats, oil and grease policy that Burton had a major part in writing and updating the town’s sewer use ordinance. Beyond that, the town plans to begin using an iamGIS software in the next couple of months. The treatment plant staff will take over the mapping of all sewer lines and manholes.

Considering the experience and “can-do” attitude of the Rocky Mount team, the mapping project should be in good hands. **tpo**

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# Getting More From the Solids Side

A RESEARCH CENTER AT THE UNIVERSITY OF WISCONSIN OSHKOSH FOCUSES ON WAYS TO MAXIMIZE DIGESTION EFFICIENCY AND BIOGAS PRODUCTION

By Ted J. Rulseh

**A**naerobic digestion is a high-potential growth area in water resource recovery facilities. It's a source of renewable energy, a promising new stream of revenue and often the key to energy self-sufficiency.

But how can anaerobic digestion and biogas-to-energy be made as cost-effective as possible? How much can gas production be increased through co-digestion of biosolids with food waste and other organic substrates? How can digester retention times be shortened? Volatile solids reduction optimized? Operating costs kept to a minimum?

Such questions are the concern of the Environmental Research and Innovation Center, or ERIC, at the University of Wisconsin Oshkosh. Led by Gregory Kleinheinz, R.S., Ph.D., chair of the university's Department of Engineering Technology, ERIC is a research and testing center for the campus, the public, and industry partners. Its staff works to serve clients while training students in ecology, environmental and public health, biology, limnology and microbiology.

Among its functions, ERIC operates three anaerobic digesters as a centerpiece for research on topics like optimizing solids management and evaluating materials for biogas production potential. The center provides expertise across multiple disciplines and offers access to state-of-the-art laboratories. Kleinheinz and Brian Langolf, biogas director, talked about the center and its biosolids and biogas research in an interview with *Treatment Plant Operator*.

**tpo:** What was the rationale for creating the ERIC?

**Langolf:** Several years ago, the university was doing sustainability projects on campus in water conservation, lighting retrofits, energy savings and building design modifications. Part of that was an evaluation of how to use the campus food waste. That led to the installation of an anaerobic digester, built much bigger than just for campus needs to enable us to work with the community and develop programs around biogas and organic diversion. We now operate three digesters and have the ability to provide research and testing services to industry.

**tpo:** What does the center offer in addition to the digesters and related services?

**Kleinheinz:** We operate as a contract research and development laboratory, basically as a place to transfer technology development. We also offer all the laboratory tests that wastewater treatment plants require and sup-

port parties who have an interest in managing organic materials.

**tpo:** On the anaerobic digestion side, what are some of the services offered?

**Kleinheinz:** We can do pilot projects in the lab involving multiple technologies, including dry and continually stirred systems. We can evaluate materials, taking into account feedstock variation and physical, chemical, and biological considerations, and then develop recipes and test them at full scale. Having control of the digester systems, we can take ideas developed and tested in the lab and do proofs of concept and demonstrations in the real world.

**tpo:** Can you give a specific example of the kinds of projects you undertake?

**Kleinheinz:** We've worked with wastewater treatment plants that want upgrade their biosolids from Class B to Class A. Or they're looking at mixing local organic resources with biosolids and need to know how to make such a mixture work. What are the chemical and biological issues related to that? What are the economic metrics? We've also done projects for wastewa-



Gregory Kleinheinz

“We operate as a contract research and development laboratory, basically as a place to transfer technology development. We also offer all the laboratory tests that wastewater treatment plants require.”

GREGORY KLEINHEINZ

ter treatment plants that aren't related to anaerobic digestion, like helping them put in biofiltration systems for odor control. It's like a comprehensive consulting relationship.

**tpo:** What anaerobic digestion technologies does the center operate?

**Langolf:** We have three basic technologies. Initially we built a dry fermentation system that is the first of its kind in the U.S. Its primary goal is diversion of food and yard waste from landfills. It takes feedstock from the campus and from more than 100 institutions and facilities — grocery stores, schools, restaurants, hospitals, corporations, and other University of Wisconsin System campuses. It treats 10,000 tons of yard waste, food waste and

(continued)



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## THE ERIC DIGESTERS

The Environmental Research and Innovation Center, or ERIC, at the University of Wisconsin Oshkosh operates three anaerobic digesters.

	Urban Dry Digester	Small Farm Digester	Large Farm Digester
<b>System type</b>	Dry, batch	Mixed plug flow	Complete mix
<b>Temperature</b>	Mesophilic	Mesophilic	Mesophilic
<b>Target retention time</b>	28 days	18 days	18-20 days
<b>Volume treated</b>	10,000 tons	6,600 tons/year	146,000 tons
<b>Feedstock</b>	53 percent food waste 23 percent yard waste 24 percent farm bedding	82 percent manure scrape 12 percent bedpack/manure 6 percent industrial food waste	100 percent manure scrape
<b>CHP size</b>	370 kW	64 kW	1,426 kW
<b>Electrical production</b>	178 MWh/month	N/A	N/A
<b>Biogas methane content</b>	58 percent	58-60 percent	53 percent
<b>Digestate volume</b>	Liquid: 300,000 gallon/year Solid: 7,000 tons/year	1.4 million gallon/year	18 million gallon/year
<b>Digestate use</b>	Liquid: Land-applied Solids: Composted/sold	Land-applied	Land-applied

farm bedding per year to produce 3,300 MWh of electricity, about 8 percent of the university's needs.

**tpo:** What are the other two digester technologies?

**Langolf:** We also operate a digester on a dairy farm with 130 cows. It's designed to demonstrate a technology for providing energy for small farms and helping with nutrient management plans. It digests mainly cattle manure but is co-fed with a small amount of industrial food processing waste. Finally, we have a large manure digester at a farm with about 8,500 dairy cows. It's a traditional complete-mix digester that treats 100 percent manure scrape.

**tpo:** In the big picture, what are you learning from your anaerobic digestion research? *(continued)*

**Kleinheinz:** First and foremost, there is no one-size-fits-all solution. Everybody needs to understand enough about their system and their operations and how it might be different. Sometimes seemingly small differences can have rather large impacts. People need to evaluate their issues and technologies on their own merits in their own systems.

**tpo:** What basic procedure do you follow when performing testing for a client?

**Kleinheinz:** The first step is to ask: "What's the problem?" For example, a treatment plant manager might say, "A cheese manufacturer wants me to take their byproduct into my digester, and here's what they're looking to pay me. Do you think that makes sense?" Those are the kinds of things we can help them evaluate.

**tpo:** Once you define the problem, how do you proceed from there?

**Kleinheinz:** In almost all cases, we advocate a stepwise approach. The steps are bench scale test, pilot scale and then full-scale. These are all stop-go points. When bench scale or pilot scale results show that what's being proposed may not be feasible, we have a jumping-off point to reevaluate, without diving in and wasting time and effort funding a full-scale project that has a low probability of success. We function as an impartial third party. We're not selling anything. We're here to evaluate and offer advice to clients to maximize their chance of success without spending a lot of money to get the answers they need.

“ We function as an impartial third party. We're not selling anything. ... We're here to evaluate and offer advice to clients to maximize their chance of success without spending a lot of money to get the answers they need.”

GREGORY KLEINHEINZ

**tpo:** How and where are the smaller-scale tests performed?

**Kleinheinz:** Most of the pilot and bench scale tests are done in the lab. We have a continuously stirred digester pilot, a dry digestion pilot, and drying capabilities for biosolids and compost materials. We have a composting pilot dryer system located at one of the digesters. A lot of these systems are adaptable. So for example, if a client wanted to test an aerated static pile composting system, that would be an easy adaptation.

**tpo:** Have you made any major discoveries related to anaerobic digestion?

**Kleinheinz:** Anaerobic digestion has been around since the first microbes crawled out of the primordial ooze. We look at it as exactly like the wastewater treatment process. Wastewater treatment is basically controlling microbial metabolism to achieve BOD reduction, pathogen kill, solids reduction or denitrification. In a similar way, anaerobic digestion is straightforward. But how can we manipulate the biology and use chemical treatment to make the process more efficient — such as by increasing methane production or decreasing retention time? That's where research on anaerobic digestion is going.

**tpo:** Where do you see growth trends in anaerobic digestion in wastewater treatment?

**Langolf:** We're seeing more waste reduction projects where utilities are looking to save cost on waste disposal or produce energy they can use on site. There's substantial development in converting biogas into natural gas for vehicle fuel or injection into pipelines. Many sites are looking to develop value-added end products like bagged soil amendments they can sell. We've seen people explore using digestate as a substrate for products like fiberboard and oriented strand board. One other area of exploration is using biogas to create bioplastics — the digester as a chemical factory of the future. **tpo**



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# Painted With Pride

TWO WATER TOWERS IN THE FLORIDA CITY OF DESTIN BECOME POPULAR LANDMARKS THANKS TO A BEACH SCENE MURAL AND CORPORATE LOGO DESIGN

By Jeff Smith

Two elevated water tanks in Florida's Panhandle don't just hold water, they are also award winners, considered tributes to the city of Destin by their operator, Destin Water Users.

The newer tank, built in 1974, showed effects of wind and wear from Hurricane Ivan in 2004. As part of regular maintenance, repainting was scheduled for winter 2016. Lockwood Wernet, general manager, credits Judd Mooso, water superintendent, with suggesting, "Let's paint it something different."

"We thought it would be a contribution to the community to invest in a mural for the tank," Wernet says. Paint schemes and concepts were gathered from plant operators, the utility's tank maintenance firm, a muralist who specialized in large-scale elevated paintings and others. Wernet presented the final design for approval by the directors of Destin Water Users.

## SCENE OF THE SEA

Sandblasting and application of more than 200 gallons of base and final coating were interrupted by weather challenges. "Winter in this part of Florida gives you plenty of sunshine, but with unexpected shots of cold weather, rain, and wind mixed in. It made the job interesting," Wernet says.

The most interesting part of the job is the huge mural of a beach scene that wraps around the 500,000-gallon tank. The mural shows two colorful Adirondack chairs resting on the white sand beach along Destin's emerald waters. An attractive stand of windblown sea oats reaches from a nearby sand dune, and a fishing boat passes by on the horizon.

ABOVE LEFT: The beach scene mural on the award-winning elevated tank was painted by muralist Eric Henn. ABOVE RIGHT: A view of Tower 1 at the site of the original Destin Water Users headquarters building.

Painted by muralist Eric Henn, the tower won the 2017 Tank of the Year award sponsored by paint manufacturer Tnemec. A photo of the tank will appear on the January page in the Tnemec calendar for 2018.

## BLUE AND WHITE

The older tank was built in 1964, right after Destin Water Users became incorporated as a private, member-owned, not-for-profit corporation. It stands

“One woman said it's the highlight of her day as she drives to work because it reminds her of the beaches that brought her here.”

LOCKWOOD WERNET

on the hillside site of the original Destin Water Users headquarters building. Known as Tower 1, this 75,000-gallon tank was recognized in 2017 as an American Water Works Association National Landmark.

To commemorate the occasion, a water drop-shaped cast bronze plaque was unveiled during a public ceremony. The plaque is embedded in a concrete, boulder-sized pedestal that rests at the foot of the tower. It is inscribed, "An American Water Landscape Significant in the History of Public Water Supply."



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As part of regular maintenance, the tower was repainted in 2015 with the company's blue-and-white colors and displays the corporate logo. The original paint job was alternating orange and white panels, showing the pedestal-style tower as a beach ball.

Wernet says both towers are landmarks and have played significant roles in navigation for Destin's large commercial fishing industry. Before GPS and satellite navigation, fishermen used the towers to help determine their position in the Gulf of Mexico. "Boaters still use the towers today, but generally just for visual navigation," Wernet says.

### DAILY HIGHLIGHT

The tank with the painted mural stands on the site of Destin Water Users' 6.0 mgd George W. French Wastewater Reclamation Facility. The plant's treated water is reused for irrigation by golf courses, homes and commercial properties. Highly visible from Highway 98, the main thoroughfare through Destin, the tank is a source of pride to Wernet and his staff. Public feedback has been positive, and the community loves it.

Wernet says, "One woman said it's the highlight of her day as she drives to work because it reminds her of the beaches that brought her here." **tpo**



A concrete pedestal and cast bronze plaque recognize Tower 1 as an AWWA national landmark.



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An aerial photo of the Riverhead Water Resource Recovery Facility shows part of the Indian Island Golf Course, which received the plant's reclaimed water, in the lower right corner.

# 'It Just Made Sense'

THE FIRST MUNICIPAL WATER REUSE PROJECT IN THE STATE OF NEW YORK PROVIDES GOLF COURSE IRRIGATION AND REPLACES THE PUMPING OF 100 MILLION GALLONS OF GROUNDWATER PER YEAR

By Steve Lund

A wastewater reuse project that took 14 years of planning is winning big environmental awards for the Riverhead Sewer District on Long Island, New York.

The wastewater treatment plant (1.5 mgd design, 1 mgd average) sits at the edge of the environmentally sensitive Peconic River Estuary, an EPA-designated nationally significant waterway. The shallow estuary has been prone to algae blooms, including the brown tide that decimated the scallop population in the 1980s.

The plant, which discharges into the Peconic River, had been a target of criticism whenever problems from nitrogen pollution occurred. Now it wins accolades from environmentalists for cutting its nitrogen discharge in half and diverting part of its effluent away from the estuary.

## SETTING A HIGH BAR

The diverted effluent becomes irrigation water for Suffolk County's Indian Island Golf Course. Proposed in 2002, it was the first municipal water reuse



The effluent at the Riverhead facility undergoes membrane microfiltration as part of the water reclamation process (Koch Membrane Systems).

project in the state. "We did a pilot project to find out what the effects would be on the turf and what type of equipment would be needed to meet the requirements for irrigation," says Michael Reichel, district superintendent. "The thing was, there were no requirements or standards. We needed to demonstrate to the county and the state that the water would not be harmful to the public or the environment."

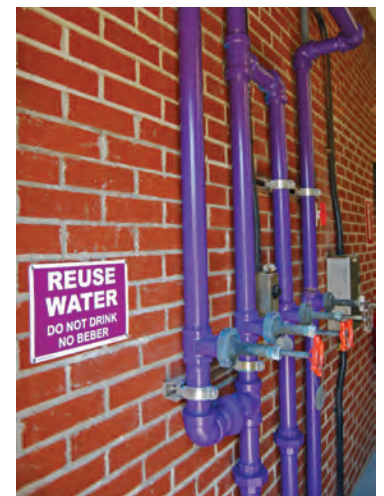
The pilot project helped the Suffolk County Health Department create the necessary standards so that now other districts with similar plans can skip the pilot phase. "We set the bar pretty high for ourselves," Reichel says. "It was the first one, so we wanted to make sure it got approved. We went with the strictest standard of every arid state that regulates reuse. We demonstrated that we could take a sidestream from the effluent, run it through an additional treatment system."

The Riverhead plant was built in 1937 with primary treatment and chlorine disinfection. It was upgraded to secondary treatment with trickling filters in 1959. In 2000, sequencing batch reactors and UV disinfection were added. When planning for the irrigation project began in 2002, the town was not required to reduce its river discharge.

## MULTIPLE BENEFITS

"It wasn't a permit issue," Reichel says. "It just made sense: Send it to another source that could use it. The only thing that separates us is a fence. It was pretty simple. It's just something we looked at for the environmental benefit." Those benefits include:

- Reducing nitrogen discharge to the Peconic River.



Special piping carries the reuse water to its destination at the Indian Island gold course.



## MANY ACCOLADES

With the first water reuse project in the state of New York, the Riverhead Sewer District has won accolades and awards. The Water Environment Federation presented the district with one of its three national Project Excellence Awards in 2017.

"WEF is proud to honor Riverhead for investing in the sustainability of their water resources and the vitality of their community," says Eileen O'Neill, executive director. "These projects show they are embracing an innovative mindset and viewing water not as a waste to simply discharge, but as a resource to reuse."

Michael Reichel, district superintendent, received a regional Environmental Champion Award from the EPA in 2015 for his leadership on the water reuse project. The project also received a 2017 Diamond Award from the American Council of Engineering Companies of New York. It was also the first winner of the Sustainability Award from the American Society of Civil Engineers Long Island Branch.

In February, the town also received the Municipal Achievement Award from the New York Water Environment Association.



Reuse water is sprayed on the golf course grounds, replacing much of the groundwater previously used for the purpose.

- Eliminating the pumping of 100 million gallons of groundwater per year for golf course irrigation, preserving the aquifer and the local source of drinking water.
- Providing irrigation lower in iron, reducing maintenance issues for irrigation equipment.
- Reducing the need for nitrogen fertilizer on the golf course.
- Reducing the energy required for irrigation pumping.

The plan diverted up to 450,000 gpd of effluent, passing it through microfiltration membrane (Koch Membrane Systems) and applying a second round of UV disinfection. "It's kind of like wearing belts and suspenders," Reichel says.

The project cost was estimated at \$3.1 million, but that changed when the state Department of Environmental Conservation, after research, determined that the water discharged into the river should have less than 4 mg/L of nitrogen. The Department of Environmental Conservation computer model showed that reducing effluent nitrogen would help boost dissolved oxygen in the estuary. Other nitrogen sources feed the estuary, including atmospheric deposition, groundwater underflow, and storm runoff, but they can't be controlled.

The change in Riverhead's permit meant the entire plant had to be upgraded to the 4 mg/L nitrogen standard, and the price rose to \$24 million. During the upgrade, the Riverhead team preserved existing facilities whenever possible. "We reused all the tanks on the site," Reichel says. "We didn't need to build anything new except tanks for UV disinfection. Everything else was repurposed."

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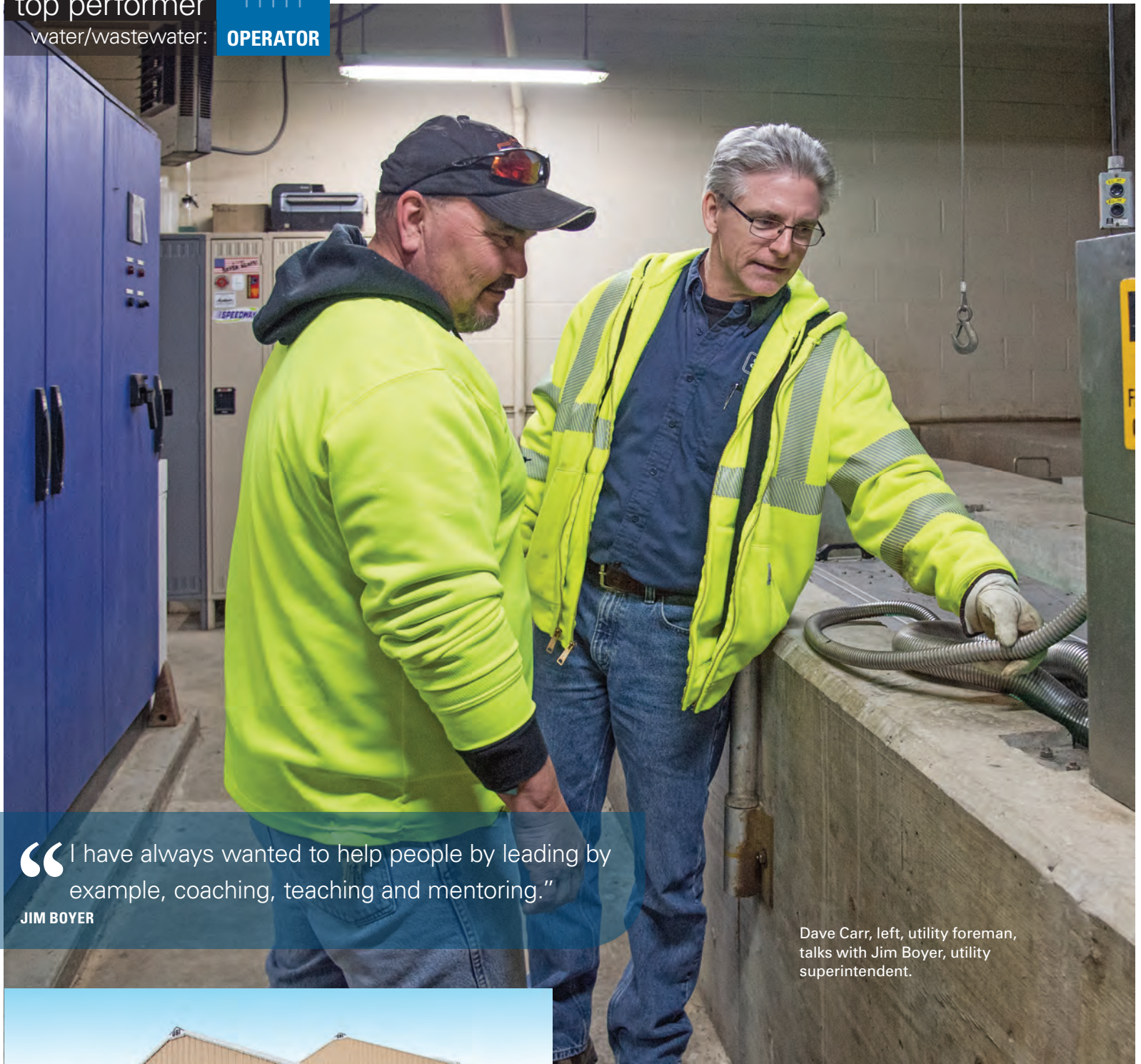
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### MORE TO COME

The original plan called for filtering only the irrigation water, but ultimately all of the flow was sent through the membrane and UV disinfection (TrojanUV). The irrigation water gets a second dose of UV (WEDECO - a Xylem Brand). The new system went online in September 2016. At an opening ceremony, the plant was described as the most advanced in the state.

With the reuse project operating successfully, Reichel has other sustainability improvements in his sights. The town also operates a small wastewater treatment plant (180,000 gpd design, 20,000 gpd average) in an industrial park. Reichel would like to install microfiltration there and use the effluent for groundwater recharge. He also has plans for the main plant's biosolids, now landfilled in Pennsylvania: He believes it could be turned into Class B material that sod growers could use as a soil additive. **tpo**





“I have always wanted to help people by leading by example, coaching, teaching and mentoring.”

JIM BOYER

Dave Carr, left, utility foreman, talks with Jim Boyer, utility superintendent.



The main office building at the Spring Hill water treatment plant.

## Jim Boyer, Spring Hill, Kansas

POSITION: | Utility superintendent

EXPERIENCE: | 30 years

CERTIFICATIONS: | Class IV wastewater treatment facility operator,  
Class II wastewater collection system operator,  
Class IV water system supply operator

AWARDS: | 2017 Utility Superintendent of the Year, Kansas Rural  
Water Association

GOAL: | Draft a financial strategic plan for the utility

GPS COORDINATES: | Latitude: 38°42'58.31"N; longitude: 94°48'52.39"W





# BORN TO SUPERVISE

JIM BOYER BRINGS 30 YEARS' EXPERIENCE IN COACHING, TEACHING AND MENTORING TO HIS ROLE AS UTILITY SUPERINTENDENT IN SPRING HILL

STORY: **Trude Witham** | PHOTOGRAPHY: **Denny Medley**

**JIM BOYER LEARNED ABOUT EMPATHY AT AN EARLY AGE.** After his father became disabled from a serious accident, his mother ran the household and raised four children.

"My father's right leg was amputated below the knee, and that was traumatic for me as a 7-year-old," Boyer recalls. "But living through that and understanding what my parents went through taught me to have compassion for others. I try to demonstrate that to my staff today."

Boyer believes he was intended to be a supervisor, a role he has fulfilled for almost 30 years: "I have always wanted to help people by leading by example, coaching, teaching and mentoring."

For the past seven years, he has overseen operation and maintenance of the Spring Hill (Kansas) Wastewater Treatment Plant, wastewater collections system and water distribution system. About a year ago, he took responsibility for the stormwater infrastructure.

Among his accomplishments was managing the city's water tower painting project from 2011-15. That involved improving the water system infrastructure so the tower could be bypassed with no loss of water service.

In 2017, Boyer received the Kansas Rural Water Association Utility Superintendent of the Year award for performance at Spring Hill and other communities.

## LAYING THE GROUNDWORK

Boyer began work life as a trackman for the Missouri Pacific Railroad. "Terry Smith was my supervisor and one of my mentors," he recalls. "He led



Jim Boyer has overseen operation and maintenance of the Spring Hill (Kansas) Wastewater Treatment Plant for the past seven years.

by example. Whether we were driving spikes or replacing railroad ties, Terry was always right next to his crew. If not for him, I wouldn't have become an assistant track foreman and eventually a track foreman. That first real job laid the groundwork for where I am today."

After 12 years, he began his career in municipal utilities, first as city superintendent in a town of 450: "I did all the maintenance for the municipality. I knew basic electrical and construction, so I took ownership of the job and learned as much as I could."

Boyer credits many people for his success "My wife, Rita, has taught me to trust my gut when I struggle with an issue or have to make a decision," he says. "Even in hard times, she has always helped me see the way through. My parents endured extreme adversity but persevered and maintained a positive attitude for their children."

Jeff Rupp, Spring Hill assistant Public Works director, played a key role in Boyer's career: "He inspired and challenged

me to think outside the box. To this day, I use many of his strategies and policy approaches in my divisional operations."

## MULTIPLE DUTIES

As part of his responsibilities, Boyer oversees the wastewater collections system line cleaning program and coordinates budget and capital improvement projects with the city's public works and finance directors. He also prepares annual municipal and irrigation water use reports, conducts annual BOD and TSS wastewater collection grab sampling, and performs utility infrastructure inspections for new construction.





Spring Hill Wastewater Treatment plant employees include, from left, Jim Boyer, utility superintendent; Jim Hendershot, assistant city manager; Brian Vance and Jay Heiman, wastewater maintenance worker II; and Dave Carr and Craig Freeman, utility foremen.

He speaks highly of his boss, Jim Hendershot, assistant city administrator: “He demonstrates a high level of character and integrity and is supportive to all of his Public Works staff.”

Boyer also appreciates his team: “The camaraderie is what makes us special. We try to have fun and not take ourselves too seriously. We also lift each other up in trying times. It makes for a long day if you’re down and out.” Team members are:

- Dave Carr, utility foreman, (Class IV wastewater and Class II water supply system certifications), five years at the plant.
- Craig Freeman, utility foreman (Class I water supply system and wastewater certifications), 15 years at the plant.
- Brian Vance, utility maintenance worker II/operator trainee, (Class II water supply system).
- Jay Heiman, utility maintenance worker II/operator-in-training.

Carr operates and maintains the wastewater plant and sends wastewater discharge monitoring and other reports to the state. Vance maintains and repairs the collections system, including the lift stations and a four-cell lagoon. Heiman maintains and repairs water service lines and meters and assists with wastewater collection. Freeman maintains and repairs water mains and assists with wastewater collection.

## EFFICIENT PLANT

Spring Hill (population 5,500) lies a few miles south of Kansas City. Its 1.25 mgd (design) treatment plant was built in 2002; it uses a Schreiber GR extended aeration activated sludge process. Average daily flow is 0.463 mgd. BOD and TSS removal averages 96 to 99 percent; monthly average effluent BOD discharged to Sweetwater Creek is 3.3 to 4.4 mg/L; TSS is 3.79 mg/L. “Analytical tests for these constituents have shown nondetect at various times of the year,” Boyer says. Equipment includes:

- Three ABS influent submersible pumps (Sulzer Pumps Solutions).
- Sernagiotto (Evoqua Water Technologies) belt filter press.
- Aerzen aeration blowers.
- Spencer Turbine sludge basin digester blowers.

designed for nutrient removal, we were able to maximize removal to achieve our targets,” Boyer says. “We did this by adjusting the aeration blower on/off setpoints to regulate dissolved oxygen in the mixed liquor.” The staff found the DO “sweet spot” by making small incremental adjustments each month after receiving lab results.

Although the health department has not set phosphorus or nitrogen limits, Spring Hill has met its target monthly average of 1.0 to 1.5 mg/L for total

- SEEPEX belt filter press sludge pump.
- WEDECO - a Xylem Brand UV disinfection system.

A 0.3 mgd four-cell lagoon system treated wastewater before the plant was built to handle population growth. Today, some inflow & infiltration is manually diverted there before being piped to the plant.

## REDUCING NUTRIENTS

Spring Hill and other facilities were placed on a Kansas Department of Health and Environment watchlist for the past few years to see if they could reduce nutrient levels through mechanical adjustments.

“Although our plant is not

“I enjoy what I do and feel fortunate to be at the level I am in since I don’t have a college education. Somewhere along the line, I must have demonstrated that I had the skills and knowledge to move up.”

**JIM BOYER**

phosphorus with effluent at 1.46 mg/L. A monthly average of 5.54 mg/L for nitrogen is far better than the target of 8.0 to 10.0 mg/L. As a result, the plant was removed from the watchlist.

## PAINTING THE TOWER

Another feather in Boyer’s cap is the successful water tower painting project. “We had to first improve the water system infrastructure so we could operate and function from just the ground storage tank,” he says. The project involved:

- Installing isolation valves near the tower and installing a bypass line.
- Upgrading the SCADA system so the water system booster pumps could function by pressure control rather than elevation control.
- Installing VFDs on each booster pump, repairing or replacing pump motors, and installing new motor wiring circuits/cables at the ground storage tank booster pump station.
- Drafting an emergency response matrix plan and conducting system testing and employee training.
- Obtaining project financing and consulting and coordinating with engineers, contractors, and city staff.

When the project began, the city’s 725,000-gallon storage capacity was

*(continued)*



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reduced to 475,000 gallons, the amount in the ground storage tank. “We implemented a mandatory water restriction to reduce water consumption so there would be some water storage for firefighting needs,” Boyer says.

Although it took four years to complete, the project was a success: “It could not have happened without the involvement of many people inside and outside the city. It didn’t interrupt water service; our customers were not even aware it was going on.”

## STAYING PUT

The city plans to conduct a wastewater plant upgrade study next year. “Depending on the results, we may have to upgrade certain plant components in five years,” Boyer says. “The city is growing, and the new development has given the utilities division more work and responsibility.”

Looking back, Boyer’s only regret is that it took him so long to enter the clean-water profession: “I enjoy what I do and feel fortunate to be at the level I am since I don’t have a college education. Somewhere along the line, I must have demonstrated that I had the skills and knowledge to move up.”

Although now approaching retirement age, he intends to stay put. “Retirement may be looming, but that is not what I want to do as long as I’m still physically able and mentally engaged as a superintendent.” As a personal goal, Boyer would like to obtain utility management certification through the National Rural Water Association.

He doesn’t need retirement to enjoy his family and hobbies. He likes spending time with his grandkids and fishing with them in nearby lakes. He and Rita tend a 400-square-foot garden; he also makes his own beer: “I kind of cheat because I don’t use the malt or barley grains but buy the prepackaged hopped malt extract. I still have to boil, brew and bottle the beer though!” **tpo**



Dave Carr uses a Scientech oven to dry a sample while Jim Boyer looks on.

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## STORMY WEATHER

The Spring Hill (Kansas) Wastewater Treatment Plant faced a challenge on Aug. 21, 2017, when 13 inches of rain fell in eight hours.

“It rained all night,” says Jim Boyer, utility superintendent. “Sweetwater Creek overflowed, and the main digester basin flooded. It was the worst event at the plant since I’ve been there.”

Jay Heiman, utility maintenance worker II, was on call that night. “After several hours of rain that evening, Jay took the initiative to investigate our city facilities to see if anything was flooded or damaged,” Boyer recalls.

Heiman arrived at the plant 3 a.m. on Aug. 22 to find the creek overflowing and floodwater entering two buildings and the sludge storage digester basin. Two blower motors in the digester blower building and the sludge pump motor in the water supply building were compromised. About 5 feet of water covered the digester basin walls and flooded the electrical control cabinet to the supernatant pump.

“Jay called me, and I set out for the plant, 35 miles away,” Boyer says. “The route I normally take was flooded, so I had to double back and take another route. By the time I got there at 4:30 a.m., the rain was subsiding and the floodwater was receding. Not much could be done until about 9 a.m. when the floodwater had drained away.”

Utilities division staff were able to waste the activated sludge for several days before they had to operate the belt filter press. That gave them time to repair and reinstall the motors that drove the pumps and aeration blowers. Plant cleanup took several weeks. “The most difficult thing was dealing with cleanup and equipment repairs, and performing our daily routine tasks at the same time,” Boyer says.

On the plus side, the event gave the plant staff the chance to reflect and assess the facility’s vulnerability: “Flood mitigation is going to be one of my priorities for a capital improvement project at the facility.”



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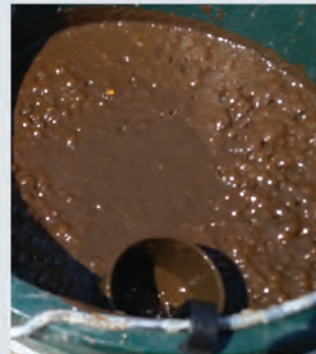
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 877-346-4262 • 404-352-6070 • Fax: 404-352-6077  
 info@uspstechnologies.com  
 www.usptechnologies.com

**Uticom Systems, Inc.**  
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 Coatesville, PA 19320  
 800-548-5321 • 610-857-2655 • Fax: 610-857-2986  
 trever@uticom.net  
 www.uticom.net



**UV Pure Technologies, Inc.**  
 60 Venture Dr., Unit 7  
 Toronto, ON M1B 3S4  
 Canada  
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 info@uvpure.com  
 www.uvpure.com

**V**

**Val-Matic Valve & Mfg. Corp.**  
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 630-941-7600 • Fax: 630-941-8042  
 valves@valmatic.com  
 www.valmatic.com

**Van London Co.**  
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 info@vanlondon.com  
 www.vanlondon.com

**Vaughan Company, Inc.**  
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 888-249-2467 • 360-249-4042  
 info@chopperpumps.com  
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**VEGA Americas, Inc.**  
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 800-367-5383 • 513-272-0131 • Fax: 513-272-0133  
 americas@vega.com  
 www.vega.com

**Vertiflo Pump Company**  
 7807 Redsky Dr.  
 Cincinnati, OH 45249  
 513-530-0888 • Fax: 513-530-0893  
 sales@vertiflopump.com  
 www.vertiflopump.com

**VFOLD INC.**  
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 Canada  
 877-818-3653 • 519-659-6941  
 sales@vfoldinc.com  
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**Vulcan Industries, Inc.**  
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 712-642-2755 • Fax: 712-642-4256  
 sales@vulcanindustries.com  
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### Dissolved Air Flotation

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Wastecorp Pumps  
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888-829-2783 • 201-445-2882 • Fax: 888-888-3320  
info@wastecorp.com  
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info@wastewaterdepot.com  
www.wastewaterdepot.com

**Water Quality Association**  
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Lisle, IL 60532  
630-505-0160 • Fax: 630-505-9637  
lwatkins@wqa.org  
www.wqa.org

**Watson-Marlow Fluid Technology Group**  
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800-282-8823 • 978-658-6168  
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www.wmftg.com

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info-us@weg.net  
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**Weidmuller**  
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www.global.weir

**WesTech Engineering**  
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info@westech-inc.com  
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henry@pacslabs.com  
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**INDUSCO ENVIRONMENTAL**  
Indusco Environmental Services, Inc.  
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www.induscoenviro.com

## Activated Carbon/Systems

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henry@pacslabs.com  
www.pacslabs.com

**AdEdge Water Technologies, LLC**  
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sales@adedge technologies.com  
www.adedgegetech.com  
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khankinson@kchservices.com  
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dnakes@setodorcontrol.com  
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**Unison Solutions, Inc.**  
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## Activated Sludge Systems

**Aeration Industries International**  
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aii@aireo2.com  
www.aireo2.com

**Aquarius Technologies, LLC**  
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262-268-1500  
info@aquariustechnologies.com  
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solutions@aquaaerobic.com  
www.aquaaerobic.com  
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sales@brownbearcorp.com  
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www.cortecvci.com

**Environmental Dynamics International**  
Columbia, MO  
573-474-9456  
edi.marketing@environmentaldynamics.com  
www.environmentaldynamics.com

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sales@eurusblower.com  
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info@sierrainstruments.com  
www.sierrainstruments.com

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**Sulzer Pumps Solutions Inc.**  
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info.abs.usa@sulzer.com  
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800-654-9307 • 312-428-4634  
info@tpvenv.com  
www.tpvenv.com



**Tuthill Vacuum & Blower Systems**  
Springfield, MO  
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vacuum@tuthill.com  
www.tuthillvacuumblower.com

**Westech Engineering**  
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info@westech-inc.com  
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## Alarm Systems/ Components

**Harwil Corp.**  
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**PRIMEX**  
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idiclo2.com

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www.miox.com

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www.nefco.us

## Anaerobic Treatment

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**Enterprise Specialty Products**  
Laurens, SC  
864-984-7700 • Fax: 864-984-2241  
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512-834-6000 • Fax: 512-834-6039  
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**Pick Heaters, Inc.**

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800-772-9247 • 203-837-2000 • Fax: 716-879-2040  
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henry@pacslabs.com  
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**American Water Works Association**

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service@awwa.org  
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wilmaherrera@ncrwa.com  
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jlowery@fordhall.com  
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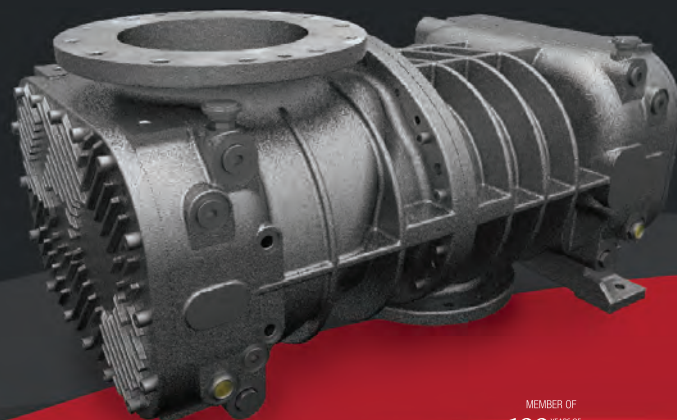
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info@eaglemicrosystems.com  
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www.forceflow.com  
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hfcsales@hayward.com  
www.haywardflowcontrol.com

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ruth.n@4peabody.com  
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www.rmfiberglass.com

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info@wastewaterdepot.com  
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info@electroswitch.com  
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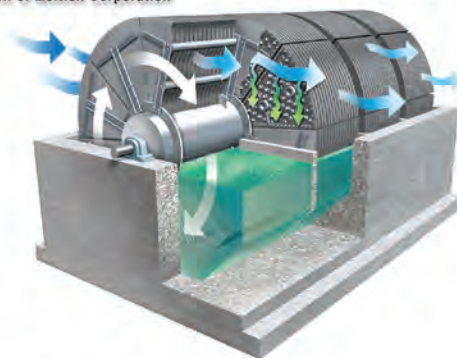
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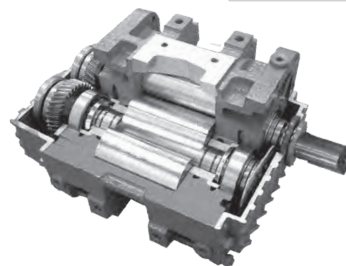
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Quincy, IL  
866-428-4890 • Fax: 217-221-8780  
www.gardnerdenver.com/robuschi/  
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**Schwing Bioset, Inc.**  
Somerset, WI  
715-247-3433 • Fax: 715-247-3438  
marketing@schwingbioset.com  
www.schwingbioset.com

**ScreenCo Systems LLC**  
Genesee, ID  
208-790-8770  
sales@screenco.com  
www.screenco.com  
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**SEEPEx.**  
**ALL THINGS FLOW**

**SEEPEx Inc.**  
Enon, OH  
937-864-7150 • Fax: 937-864-7157  
sales.us@seepex.com  
www.seepex.com  
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**SRS Crisafulli, Inc.**  
Glendive, MT  
800-442-7867 • 406-365-3393 • Fax: 406-365-8088  
srsc@crisafulli.com  
www.crisafullipumps.com

**Sulzer Pumps Solutions Inc.**  
Meriden, CT  
800-525-7790 • 203-238-2700 • Fax: 203-238-0738  
info.abs.usa@sulzer.com  
www.sulzer.com

**Sunbelt Rentals**  
Fort Mill, SC  
800-736-2504  
www.sunbeltrentals.com

**Vaughan Company, Inc.**  
Montesano, WA  
888-249-2467 • 360-249-4042  
info@chopperpumps.com  
www.chopperpumps.com  
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**Vertiflo Pump Company**  
Cincinnati, OH  
513-530-0888 • Fax: 513-530-0893  
sales@vertiflopump.com  
www.vertiflopump.com

**Wastecorp Pumps**  
Grand Island, NY  
888-829-2783 • 201-445-2882 • Fax: 888-888-3320  
info@wastecorp.com  
www.wastecorp.com

**Watson-Marlow Fluid Technology Group**  
Wilmington, MA  
800-282-8823 • 978-658-6168  
info@wmftg.us  
www.wmftg.com  
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**WEIR**  
**Weir Specialty Pumps (WEMCO)**  
Salt Lake City, UT  
800-716-5050 • Fax: 801-359-8731  
wsp@mail.weir.com  
www.global.weir.com

**Wilo USA**  
Rosemont, IL  
888-945-6872 • Fax: 888-945-6843  
info@wilo-usa.com  
www.wilo-usa.com  
Ad on page 11

**Pumps - Submersible**

**Boerger, LLC**  
Chanhassen, MN  
612-435-7300  
america@boerger.com  
www.boerger.com



**CORNELL**  
EFFICIENT BY DESIGN  
Cornell Pump Company  
Clackamas, OR  
503-653-0330 • Fax: 503-653-0338  
muni@cornellpump.com  
www.cornellpump.com



**Dragon Products, Ltd.**  
Beaumont, TX  
800-231-8198  
sales@modernusa.com  
www.dragonproductsltd.com



**EBARA Pumps Americas Corporation**  
Rock Hill, SC  
803-327-5005 • Fax: 803-327-5097  
sales@pumpsebara.com  
www.pumpsebara.com



**Gorman-Rupp Company**  
Mansfield, OH  
419-755-1011 • Fax: 419-755-1251  
grsales@gormanrupp.com  
www.GRpumps.com

**Holland Pump Company**  
West Palm Beach, FL  
800-451-0769 • 561-697-3333 • Fax: 561-683-7247  
sales@hollandpump.com  
www.hollandpump.com

**Hydra-Tech Pumps**  
Nesquehoning, PA  
570-645-3779 • Fax: 570-645-4061  
htpump@hydra-tech.com  
www.hydra-tech.com

**JDV Equipment Corporation**  
Dover, NJ  
973-366-6556 • Fax: 973-366-3193  
sales@jdvequipment.com  
www.jdvequipment.com  
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**KSB, Inc.**  
Henrico, VA  
804-222-1818 • Fax: 804-226-6961  
sales@ksbusa.com  
www.ksbusa.com

**NETZSCH Pumps North America, LLC**  
Exton, PA  
610-363-8010 • Fax: 610-363-0971  
npa@netzsch.com  
www.pumps.netzsch.com

**Rain for Rent**  
Bakersfield, CA  
800-742-7246  
info@rainforrent.com  
www.rainforrent.com

**SRS Crisafulli, Inc.**  
Glendive, MT  
800-442-7867 • 406-365-3393 • Fax: 406-365-8088  
srsc@crisafulli.com  
www.crisafullipumps.com

**SULZER**  
Sulzer Pumps Solutions Inc.  
Meriden, CT  
800-525-7790 • 203-238-2700 • Fax: 203-238-0738  
info.abs.usa@sulzer.com  
www.sulzer.com



**Sunbelt Rentals**  
Fort Mill, SC  
800-736-2504  
www.sunbeltrentals.com

**Vaughan Company, Inc.**  
Montesano, WA  
888-249-2467 • 360-249-4042  
info@chopperpumps.com  
www.chopperpumps.com

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**Wastecorp Pumps**  
Grand Island, NY  
888-829-2783 • 201-445-2882 • Fax: 888-888-3320  
info@wastecorp.com  
www.wastecorp.com



**Weir Specialty Pumps (WEMCO)**  
Salt Lake City, UT  
800-716-5050 • Fax: 801-359-8731  
wsp@mail.weir  
www.global.weir

**Wilo USA**  
Rosemont, IL  
888-945-6872 • Fax: 888-945-6843  
info@wilo-usa.com  
www.wilo-usa.com  
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## Pumps - Vertical/ Lift Station

**CECO Environmental**  
Dallas, TX  
800-333-5475 • 813-458-2600 • Fax: 513-458-2647  
www.cecoenviro.com  
**Ad on page 83**

**EBARA Pumps Americas Corporation**  
Rock Hill, SC  
803-327-5005 • Fax: 803-327-5097  
sales@pumpsebara.com  
www.pumpsebara.com



**Gorman-Rupp Company**  
Mansfield, OH  
419-755-1011 • Fax: 419-755-1251  
grsales@gormanrupp.com  
www.GRpumps.com

**Holland Pump Company**  
West Palm Beach, FL  
800-451-0769 • 561-697-3333 • Fax: 561-683-7247  
sales@hollandpump.com  
www.hollandpump.com

**KSB, Inc.**  
Henrico, VA  
804-222-1818 • Fax: 804-226-6961  
sales@ksbusa.com  
www.ksbusa.com

**Robuschi USA**  
Quincy, IL  
866-428-4890 • Fax: 217-221-8780  
www.gardnerdenver.com/robuschi/  
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**Smith & Loveless Inc.**  
Smith & Loveless, Inc.  
Lenexa, KS  
800-898-9122 • 913-888-5201 • Fax: 913-888-2173  
answers@smithandloveless.com  
www.smithandloveless.com

**SRS Crisafulli, Inc.**  
Glendive, MT  
800-442-7867 • 406-365-3393 • Fax: 406-365-8088  
srsc@crisafulli.com  
www.crisafullipumps.com

**Sulzer Pumps Solutions Inc.**  
Meriden, CT  
800-525-7790 • 203-238-2700 • Fax: 203-238-0738  
info.abs.usa@sulzer.com  
www.sulzer.com

**Vaughan Company, Inc.**  
Montesano, WA  
888-249-2467 • 360-249-4042  
info@chopperpumps.com  
www.chopperpumps.com  
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**Vertiflo Pump Company**  
Cincinnati, OH  
513-530-0888 • Fax: 513-530-0893  
sales@vertiflopump.com  
www.vertiflopump.com

**Wastecorp Pumps**  
Grand Island, NY  
888-829-2783 • 201-445-2882 • Fax: 888-888-3320  
info@wastecorp.com  
www.wastecorp.com



**Weir Specialty Pumps (WEMCO)**  
Salt Lake City, UT  
800-716-5050 • Fax: 801-359-8731  
wsp@mail.weir  
www.global.weir

**Wilo USA**  
Rosemont, IL  
888-945-6872 • Fax: 888-945-6843  
info@wilo-usa.com  
www.wilo-usa.com  
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## Rectangular Collectors

**AMWELL, A Div. of McNish Corp.**  
North Aurora, IL  
630-898-6900 • Fax: 630-898-6901  
phazman@amwell-inc.com  
www.amwell-inc.com

## Rehab/Retrofit

**Evoqua Water Technologies LLC**  
Pittsburgh, PA  
800-466-7873 • 724-772-0044  
www.evoqua.com

## Remote Monitoring



**PRIMEX**  
Detroit Lakes, MN  
218-847-1317 • Fax: 218-847-4617  
info@primexcontrols.com  
www.primexcontrols.com

**Sensaphone®**  
Aston, PA  
855-807-1887  
contact@sensaphone.com  
www.sensaphone.com

## Renewable Energy Products

**2G Energy Inc.**  
St. Augustine, FL  
904-579-3217  
info@2g-energy.com  
www.2g-energy.com

**Amtech Drives, Inc.**  
Atlanta, GA  
770-469-5240  
info@amtechdrives.com  
www.amtechdrives.com

**Flottweg Separation Technology, Inc.**  
Independence, KY  
859-448-2331 • Fax: 859-448-2333  
sales@flottweg.net  
www.flottweg.com  
**Ad on page 120**

**Kohler Power Systems**  
Kohler, WI  
800-544-2444 • 920-457-4441  
www.kohlerpower.com

**Ovivo USA, LLC**  
Austin, TX  
512-834-6000 • Fax: 512-834-6039  
info.us@ovivowater.com  
www.ovivowater.com

**Sierra Instruments, Inc.**  
Monterey, CA  
800-866-0200 • 831-373-0200 • Fax: 831-373-4402  
info@sierrainstruments.com  
www.sierrainstruments.com

**Unison Solutions, Inc.**  
Dubuque, IA  
563-585-0967 • Fax: 563-585-0970  
sales@unisonsolutions.com  
www.unisonsolutions.com

**Vaughan Company, Inc.**  
Montesano, WA  
888-249-2467 • 360-249-4042  
info@chopperpumps.com  
www.chopperpumps.com  
**Ad on page 31**

**Westech Engineering**  
Salt Lake City, UT  
801-265-1000 • Fax: 801-265-1080  
info@westech-inc.com  
www.westech-inc.com

## Rental Equipment

**Aeration Industries International**  
Chaska, MN  
800-328-8287 • 952-448-6789 • Fax: 952-448-7293  
aii@aireo2.com  
www.aireo2.com

**Aqua-Aerobic Systems, Inc.**  
Loves Park, IL  
800-940-5008 • 815-654-2501 • Fax: 815-654-2508  
solutions@aqua-aerobic.com  
www.aqua-aerobic.com  
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**Centrisys / CNP**  
Kenosha, WI  
262-654-6006 • Fax: 262-764-8705  
info@centrisys.us  
www.centrisys.com  
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**Fluence Corporation**  
Golden Valley, MN  
800-879-3677 • 763-746-9278  
info@fluencecorp.com  
www.fluencecorp.com  
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**Holland Pump Company**  
West Palm Beach, FL  
800-451-0769 • 561-697-3333 • Fax: 561-683-7247  
sales@hollandpump.com  
www.hollandpump.com

**Kohler Power Systems**  
Kohler, WI  
800-544-2444 • 920-457-4441  
www.kohlerpower.com

**SRS Crisafulli, Inc.**  
Glendive, MT  
800-442-7867 • 406-365-3393 • Fax: 406-365-8088  
srsc@crisafulli.com  
www.crisafullipumps.com

**Sunbelt Rentals**  
Fort Mill, SC  
800-736-2504  
www.sunbeltrentals.com

## Reverse Osmosis Equipment

**AdEdge Water Technologies, LLC**  
Duluth, GA  
866-823-3343 • 678-835-0052 • Fax: 678-835-0057  
sales@adedgetechnologies.com  
www.adedgetech.com  
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**Hydro-Thermal Corporation**  
Waukesha, WI  
800-952-0121 • 262-548-8900 • Fax: 262-548-8909  
info@hydro-thermal.com  
www.hydro-thermal.com

**KCH Engineered Systems**  
Forest City, NC  
828-245-9836  
khankinson@kchservices.com  
www.kchservices.com

**Pick Heaters, Inc.**  
West Bend, WI  
262-338-1191  
info1@pickheaters.com  
www.pickheaters.com

**Rotary Press**

**Schwing Bioset, Inc.**  
Somerset, WI  
715-247-3433 • Fax: 715-247-3438  
marketing@schwingbioset.com  
www.schwingbioset.com

**Rotating Biological Contactors**

**Walker Process Equipment, A Div. of McNish Corp.**  
Aurora, IL  
800-992-5537 • 630-892-7921 • Fax: 630-892-7951  
walker.process@walker-process.com  
www.walker-process.com  
**Ad on page 77**

**Safety Equipment/ Personal Protection**

**American Pleasure Products, Inc.**  
Rose City, MI  
989-685-2697 • Fax: 989-685-8484  
info@aquacycleusa.com  
www.aquacycleusa.com  
**Ad on page 89**

**ElectroSwitch Corporation**  
Weymouth, MA  
781-335-5200  
info@electroswitch.com  
www.electroswitch.com

**ENMET**  
Ann Arbor, MI  
800-521-2978 • 734-761-1270 • Fax: 734-761-1229  
info@enmet.com  
www.enmet.com

**Fibergate Composite Structures**  
Dallas, TX  
800-527-4043 • 972-250-1633 • Fax: 972-250-1530  
info@fibergate.com  
www.fibergate.com

**Force Flow**  
Concord, CA  
800-893-6723 • 925-686-6700 • Fax: 925-686-6713  
info@forceflow.com  
www.forceflow.com  
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**Ford Hall Company, Inc.**  
Richmond, KY  
859-624-1077 • Fax: 859-624-3320  
jlowery@fordhall.com  
www.weir-wolf.com  
**Ad on page 79**

**GillTrading.com, Inc./WeirWasher, ACS**  
Beaverton, OR  
866-447-2496 • 503-628-0197 • Fax: 503-646-9293  
brentgill@gilltrading.com  
www.gilltrading.com

**Halogen Valve Systems, Inc.**  
Irvine, CA  
949-261-5030 • Fax: 949-261-5033  
info@halogenvalve.com  
www.halogenvalve.com

**MELTRIC Corporation**  
Franklin, WI  
800-433-7642 • 414-433-2700  
mail@meltric.com  
www.meltric.com

**Ad on page 116**

**Milwaukee Rubber Products, Inc.**  
Menomonee Falls, WI  
800-325-3730 • 262-781-7888 • Fax: 262-781-1742  
sales@milwaukeeerubber.com  
www.milwaukeeerubber.com

**RKI Instruments, Inc.**  
Union City, CA  
800-754-5165 • 510-441-5656 • Fax: 510-441-5650  
orders@rkiinstruments.com  
www.rkiinstruments.com

**ScreenCo Systems LLC**  
Genesee, ID  
208-790-8770  
sales@screencosystems.com  
www.screencosystems.com

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**Uticom Systems, Inc.**  
Coatesville, PA  
800-548-5321 • 610-857-2655 • Fax: 610-857-2986  
trever@uticom.net  
www.uticom.net

**Samplers/Sampling Systems**

**Hach**  
Loveland, CO  
800-227-4224 • 970-669-3050  
orders@hach.com  
www.hach.com

**SCADA Systems**

**ElectroSwitch Corporation**  
Weymouth, MA  
781-335-5200  
info@electroswitch.com  
www.electroswitch.com

**EMERSON**  
**Emerson Automation Solutions, Power & Water**  
Pittsburgh, PA  
800-445-9723 • 412-963-4804  
powerwater@emerson.com  
www.emerson.com/water

**Fromatic Valves**  
Glens Falls, NY  
800-833-2040 • 518-761-9797 • Fax: 518-761-9798  
fromatic@fromatic.com  
www.fromatic.com

**PRIMEX**

**PRIMEX**  
Detroit Lakes, MN  
218-847-1317 • Fax: 218-847-4617  
info@primexcontrols.com  
www.primexcontrols.com

**Schneider Electric / Square D**  
Knightdale, NC  
919-266-3761  
www.schneider-electric.us

**Sensaphone®**  
Aston, PA  
855-807-1887  
contact@sensaphone.com  
www.sensaphone.com

**Trihedral Engineering Limited**  
Bedford, NS  
Canada  
800-463-2783 • 902-835-1575 • Fax: 902-835-0369  
pcooke@trihedral.com  
www.trihedral.com

**Scales**

**Eagle Microsystems, Inc.**  
Pottstown, PA  
800-780-8636 • 610-323-2250 • Fax: 610-323-0114  
info@eaglemicrosystems.com  
www.eaglemicrosystems.com



CHECK. CONTROL. COMPLY.  
**Force Flow**  
Concord, CA  
800-893-6723 • 925-686-6700 • Fax: 925-686-6713  
info@forceflow.com  
www.forceflow.com  
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**Screens/Strainers/ Screening Systems**

**AMWELL, A Div. of McNish Corp.**  
North Aurora, IL  
630-898-6900 • Fax: 630-898-6901  
phaizman@amwell-inc.com  
www.amwell-inc.com

**Aqseptence Group, Inc. - Johnson Screens**  
New Brighton, MN  
800-833-9473 • 651-636-3900 • Fax: 651-638-3171  
charles.flansburg@aqseptence.com  
www.johnsonscreens.com

**Aqualitec Corp.**  
Los Angeles, CA  
855-650-2214  
info@aqualitec.com  
www.aqualitec.com



**CleanTek Water Solutions**  
Fridley, MN  
866-929-7773  
info@cleantekwater.com  
www.cleantekwater.com



**DRYCAKE**  
Vancouver, BC  
Canada  
877-379-2253 • 604-535-2238  
sales@drycake.com  
www.drycake.com

**Duperon Corporation**  
Saginaw, MI  
800-383-8479 • 989-754-8800 • Fax: 989-754-2175  
info@duperon.com  
www.duperon.com



**Duramax Cast Stainless Steel Chain & Equipment Products**  
Pewaukee, WI  
800-691-0998 • 262-691-0998 • Fax: 262-691-0992  
www.duramaxchain.com



**Enviro-Care Company**  
Gurnee, IL  
815-636-8306  
ecsales@enviro-care.com  
www.enviro-care.com

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**GillTrading.com, Inc./WeirWasher, ACS**  
Beaverton, OR  
866-447-2496 • 503-628-0197 • Fax: 503-646-9293  
brentgill@gilltrading.com  
www.gilltrading.com

**Hayward Flow Control**  
Clemmons, NC  
888-429-4635 • Fax: 888-778-8410  
hfsales@hayward.com  
www.haywardflowcontrol.com

**Headworks International, Inc.**  
Houston, TX  
713-647-6667 • Fax: 713-647-0999  
hw@headworksintl.com  
www.headworksintl.com

**Huber Technology, Inc.**  
Huntersville, NC  
704-949-1010 • Fax: 704-949-1020  
marketing@hhusa.net  
www.huberforum.net

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**Hydro International**  
Hillsboro, OR  
866-615-8130 • 503-615-8130 • Fax: 503-615-2906  
questions@hydro-int.com  
www.hydro-int.com

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**JDV Equipment Corporation**  
Dover, NJ  
973-366-6556 • Fax: 973-366-3193  
sales@jdvequipment.com  
www.jdvequipment.com

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**Lakeside Equipment Corporation**

Bartlett, IL  
630-837-5640 • Fax: 630-837-5647  
sales@lakeside-equipment.com  
www.lakeside-equipment.com

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**OVIVO USA, LLC**

Austin, TX  
512-834-6000 • Fax: 512-834-6039  
info.us@ovivowater.com  
www.ovivowater.com

**Park Process**

Houston, TX  
855-511-7275 • 713-937-7602 • Fax: 713-937-4254  
rcaughman@park-usa.com  
www.parkprocess.com

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**Parkson Corporation**

Ft. Lauderdale, FL  
888-727-5766 • Fax: 954-974-6182  
technology@parkson.com  
www.parkson.com



**Paxxo**  
Newnan, GA  
770-502-0055 • Fax: 770-502-0088  
chris.pettigrew@paxxo.com  
www.paxxo.com

**Schreiber LLC**

Trussville, AL  
205-655-7466 • Fax: 205-655-7669  
info@schreiberwater.com  
www.schreiberwater.com

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**ScreenCo Systems LLC**

Genesee, ID  
208-790-8770  
sales@screenco.com  
www.screenco.com

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**Smith & Loveless Inc.**

**Smith & Loveless, Inc.**  
Lenexa, KS  
800-898-9122 • 913-888-5201 • Fax: 913-888-2173  
answers@smithandloveless.com  
www.smithandloveless.com

**Sure Flow Products, LLC**

Wixom, MI  
248-380-3569 • Fax: 248-380-3568  
sales@sureflowproducts.com  
www.flowmetersource.com



**Vulcan Industries, Inc.**

Missouri Valley, IA  
712-642-2755 • Fax: 712-642-4256  
sales@vulcanindustries.com  
www.vulcanindustries.com

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**Screw Conveyors**

**AMWELL, A Div. of McNish Corp.**

North Aurora, IL  
630-898-6900 • Fax: 630-898-6901  
phaizman@amwell-inc.com  
www.amwell-inc.com

**Aqseptence Group, Inc. - Johnson Screens**

New Brighton, MN  
800-833-9473 • 651-636-3900 • Fax: 651-638-3171  
charles.flansburg@aqseptence.com  
www.johnsonscreens.com

**Charter Machine Company**

Metuchen, NJ  
732-548-4400  
walterk@chartermachine.com  
www.chartermachine.com

**CleanTek Water Solutions**

Fridley, MN  
866-929-7773  
info@cleantekwater.com  
www.cleantekwater.com

**DRYCAKE**

Vancouver, BC  
Canada  
877-379-2253 • 604-535-2238  
sales@drycake.com  
www.drycake.com

**Enviro-Care Company**

Gurnee, IL  
815-636-8306  
ecsales@enviro-care.com  
www.enviro-care.com

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**Headworks International, Inc.**

Houston, TX  
713-647-6667 • Fax: 713-647-0999  
hw@headworksintl.com  
www.headworksintl.com

**Huber Technology, Inc.**

Huntersville, NC  
704-949-1010 • Fax: 704-949-1020  
marketing@hhusa.net  
www.huberforum.net

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**JDV Equipment Corporation**

Dover, NJ  
973-366-6556 • Fax: 973-366-3193  
sales@jdvequipment.com  
www.jdvequipment.com

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**Lakeside Equipment Corporation**

Bartlett, IL  
630-837-5640 • Fax: 630-837-5647  
sales@lakeside-equipment.com  
www.lakeside-equipment.com

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**Paxxo**  
Newnan, GA  
770-502-0055 • Fax: 770-502-0088  
chris.pettigrew@paxxo.com  
www.paxxo.com

**Schwing Bioset, Inc.**

Somerseset, WI  
715-247-3433 • Fax: 715-247-3438  
marketing@schwingbioset.com  
www.schwingbioset.com

**Smith & Loveless, Inc.**

Lenexa, KS  
800-898-9122 • 913-888-5201 • Fax: 913-888-2173  
answers@smithandloveless.com  
www.smithandloveless.com

**Vulcan Industries, Inc.**

Missouri Valley, IA  
712-642-2755 • Fax: 712-642-4256  
sales@vulcanindustries.com  
www.vulcanindustries.com

Ad on page 63

**Scrubbers/Biofilters**

**AdEdge Water Technologies, LLC**

Duluth, GA  
866-823-3343 • 678-835-0052 • Fax: 678-835-0057  
sales@adedge.com  
www.adedge.com

Ad on page 23



**BOHN BIOFILTER**

Tucson, AZ  
520-624-4644  
info@bohnbiofilter.com  
www.bohnbiofilter.com

**CECO Environmental**

Dallas, TX  
800-333-5475 • 813-458-2600 • Fax: 513-458-2647  
www.cecoenviro.com

Ad on page 83

**Indusco Environmental Services, Inc.**

Spanish Fort, AL  
251-621-2338 • Fax: 251-621-2342  
sales@induscoenviro.com  
www.induscoenviro.com

**KCH Engineered Systems**

Forest City, NC  
828-245-9836  
khankinson@kchservices.com  
www.kchservices.com

**Premier Tech Aqua**

Riviere-du-Loup, QC  
Canada  
800-632-6356 • 418-867-8883 • Fax: 418-862-6642  
pta@premiertech.com  
www.premiertechaqua.com

**Secondary Containment**

**AmTech Tank Lining & Repair**

Plymouth, NH  
888-839-0373 • Fax: 603-947-9500  
info@amtechtanklining.com  
www.amtechtanklining.com

Ad on page 105

**Walker Process Equipment, A Div. of McNish Corp.**

Aurora, IL  
800-992-5537 • 630-892-7921 • Fax: 630-892-7951  
walker.process@walker-process.com  
www.walker-process.com

Ad on page 77

**Sensors**

**Amtech Drives, Inc.**

Atlanta, GA  
770-469-5240  
info@amtechdrives.com  
www.amtechdrives.com

**Burkert Fluid Control Systems**

Huntersville, NC  
704-504-4440 • Fax: 949-223-3198  
marketing-usa@burkert.com  
www.burkert-usa.com

**Chromalox**

Pittsburgh, PA  
800-443-2640 • 412-967-3800 • Fax: 412-967-5148  
sales@chromalox.com  
www.chromalox.com

**Eagle Microsystems, Inc.**

Pottstown, PA  
800-780-8636 • 610-323-2250 • Fax: 610-323-0114  
info@eaglemicrosystems.com  
www.eaglemicrosystems.com

**Endress+Hauser**

**Endress+Hauser**  
Greenwood, IN  
888-363-7377 • Fax: 317-535-8498  
info@us.endress.com  
www.us.endress.com

**EnviroSuite**

Burlingame, CA  
424-335-1331  
inquiries@envirosuite.com  
www.envirosuite.com

**FCl - Fluid Components International**

San Marcos, CA  
800-854-1993 • 760-744-6950 • Fax: 760-736-6250  
eflow@fluidcomponents.com  
www.fluidcomponents.com

**Hach**

Loveland, CO  
800-227-4224 • 970-669-3050  
orders@hach.com  
www.hach.com

**Harwil Corp.**

Oxnard, CA  
805-988-6800 • Fax: 805-988-6804  
sales@harwil.com  
www.harwil.com

**Hawk Measurement**  
Lawrence, MA  
888-429-5538 • 978-304-3000 • Fax: 978-304-1462  
info@hawkmeasure.com  
www.hawkmeasure.com

**IWAKI America**  
Holliston, MA  
508-429-1440  
info@iwakiamerica.com  
www.iwakiamerica.com

**Keller America Inc.**  
Newport News, VA  
877-253-5537 • 757-596-6680 • Fax: 757-596-6659  
sales@kelleramerica.com  
www.kelleramerica.com  
**Ad on page 41**

**LaMotte Company**  
Chestertown, MD  
800-344-3100 • 410-778-3100 • Fax: 410-778-6394  
mkt@lamotte.com  
www.lamotte.com  
**Ad on page 91**

  
**MoistTech Corp.**  
Sarasota, FL  
941-727-1800 • Fax: 941-727-1810  
info@moisttech.com  
www.moisttech.com

**MYRON L COMPANY**



**Myron L® Company**  
Carlsbad, CA  
760-438-2021 • Fax: 760-931-9189  
info@myronl.com  
www.myronl.com  
**Ad on page 7**

**PMC Engineering**  
Danbury, CT  
203-792-8686 • Fax: 203-743-2051  
sales@pmc1.com  
www.pmc1.com

**PRIMEX**  
Detroit Lakes, MN  
218-847-1317 • Fax: 218-847-4617  
info@primexcontrols.com  
www.primexcontrols.com

**RKI Instruments, Inc.**  
Union City, CA  
800-754-5165 • 510-441-5656 • Fax: 510-441-5650  
orders@rkiinstruments.com  
www.rkiinstruments.com

**Schneider Electric / Square D**  
Knightdale, NC  
919-266-3761  
www.schneider-electric.us

  
**Seametrics**  
Kent, WA  
800-975-8153 • 253-872-0284 • Fax: 253-872-0285  
info@seametrics.com  
www.seametrics.com

**Sensaphone®**  
Aston, PA  
855-807-1887  
contact@sensaphone.com  
www.sensaphone.com

**Sensorex**  
Garden Grove, CA  
714-895-4344  
info@sensorex.com  
www.sensorex.com

**Sierra Instruments, Inc.**  
Monterey, CA  
800-866-0200 • 831-373-0200 • Fax: 831-373-4402  
info@sierrainstruments.com  
www.sierrainstruments.com

**Sure Flow Products, LLC**  
Wixom, MI  
248-380-3569 • Fax: 248-380-3568  
sales@sureflowproducts.com  
www.flowmetersource.com

**Van London Co.**  
Houston, TX  
800-522-7920 • 832-456-6641 • Fax: 832-456-6642  
info@vanlondon.com  
www.vanlondon.com

**YSI, a Xylem brand**  
Yellow Springs, OH  
800-765-4974 • 937-767-7241  
info@ysi.com  
www.ysi.com  
**Ad on page 43**

**Septage Receiving Stations**

**CleanTek Water Solutions**  
Fridley, MN  
866-929-7773  
info@cleantekwater.com  
www.cleantekwater.com



**DRYCAKE**  
Vancouver, BC  
Canada  
877-379-2253 • 604-535-2238  
sales@drycake.com  
www.drycake.com



**Enviro-Care Company**  
Gurnee, IL  
815-636-8306  
ecsales@enviro-care.com  
www.enviro-care.com  
**Ad on page 57**

**Huber Technology, Inc.**  
Huntersville, NC  
704-949-1010 • Fax: 704-949-1020  
marketing@hhusa.net  
www.huberforum.net  
**Ad on page 9**

**International Dioxide / ERCO Worldwide**  
North Kingstown, RI  
401-295-8800 • Fax: 401-295-7108  
idico2.com

**JDV Equipment Corporation**  
Dover, NJ  
973-366-6556 • Fax: 973-366-3193  
sales@jdvequipment.com  
www.jdvequipment.com  
**Ad on page 4**



**Lakeside Equipment Corporation**  
Bartlett, IL  
630-837-5640 • Fax: 630-837-5647  
sales@lakeside-equipment.com  
www.lakeside-equipment.com  
**Ad on page 3**



**ScreenCo Systems LLC**  
Genesee, ID  
208-790-8770  
sales@screencosystems.com  
www.screencosystems.com  
**Ad on page 116**

**Vaughan Company, Inc.**  
Montesano, WA  
888-249-2467 • 360-249-4042  
info@chopperpumps.com  
www.chopperpumps.com  
**Ad on page 31**

**Sequencing Batch Reactors (SBR)**

**Aeration Industries International**  
Chaska, MN  
800-328-8287 • 952-448-6789 • Fax: 952-448-7293  
aii@aireo2.com  
www.aireo2.com

**Alfa Laval**  
Richmond, VA  
866-253-2528  
customerservice.usa@alfalaval.com  
www.alfalaval.us



**Aqua-Aerobic Systems, Inc.**  
Loves Park, IL  
800-940-5008 • 815-654-2501 • Fax: 815-654-2508  
solutions@aquaaerobic.com  
www.aqua-aerobic.com  
**Ad on page 39**

**Enterprise Specialty Products**  
Laurens, SC  
864-984-7700 • Fax: 864-984-2241  
sales@enterprisesp.com  
www.enterprisesp.com

**Environmental Dynamics International**  
Columbia, MO  
573-474-9456  
edi.marketing@environmentaldynamics.com  
www.environmentaldynamics.com

**Evoqua Water Technologies LLC**  
Pittsburgh, PA  
800-466-7873 • 724-772-0044  
www.evoqua.com

**Fluidyne Corporation**  
Cedar Falls, IA  
319-266-9967 • Fax: 319-277-6034  
fluidyne@fluidynecorp.com  
www.fluidynecorp.com



**Lakeside Equipment Corporation**  
Bartlett, IL  
630-837-5640 • Fax: 630-837-5647  
sales@lakeside-equipment.com  
www.lakeside-equipment.com  
**Ad on page 3**

**Ovivo USA, LLC**  
Austin, TX  
512-834-6000 • Fax: 512-834-6039  
info.us@ovivowater.com  
www.ovivowater.com

**Parkson Corporation**  
Fr. Lauderdale, FL  
888-727-5766 • Fax: 954-974-6182  
technology@parkson.com  
www.parkson.com



**Premier Tech Aqua**  
Riviere-du-Loup, QC  
Canada  
800-632-6356 • 418-867-8883 • Fax: 418-862-6642  
pta@premiertech.com  
www.premiertechaqua.com

**Service Company**

**Activated Carbon Services - PACS**  
Coraopolis, PA  
800-367-2587 • 724-457-6576  
henry@pacslabs.com  
www.pacslabs.com

**CEI - Carbon Enterprises Inc.**  
Circleville, OH  
800-344-5770 • Fax: 888-204-9656  
info@ceicompanies.com  
www.ceifiltration.com

**Centrisys / CNP**  
Kenosha, WI  
262-654-6006 • Fax: 262-764-8705  
info@centrisys.us  
www.centrisys.com  
**Ad on page 17**



**F&V Operations and Resource Management**  
Grand Rapids, MI  
888-773-8806 • 616-588-2900 • Fax: 616-977-1005  
bslover@fv-operations.com  
www.fv-operations.com

**Hurst Boiler**

Coolidge, GA  
877-994-8778 • 229-346-3545 • Fax: 229-346-3874  
info@hurstboiler.com  
www.hurstboiler.com  
**Ad on page 118**

**JPCI Services**

Mesa, AZ  
480-986-1212  
info@jpciservices.com  
www.jpciservices.com

**U.S. Submergent Technologies**

Winter Park, FL  
844-765-7866  
info@ussubmergent.com  
www.ussubmergent.com

**U.S. Water Services Corporation**

New Port Richey, FL  
866-753-8292 • 727-848-8292 • Fax: 727-848-7701  
info@uswatercorp.net  
www.uswatercorp.com

**Sight Flow Indicators**

**Sure Flow Products, LLC**

Wixom, MI  
248-380-3569 • Fax: 248-380-3568  
sales@sureflowproducts.com  
www.flowmetersource.com

**Skimmers**

**AMWELL, A Div. of McNish Corp.**

North Aurora, IL  
630-898-6900 • Fax: 630-898-6901  
phaizman@amwell-inc.com  
www.amwell-inc.com

**Park Process**

Houston, TX  
855-511-7275 • 713-937-7602 • Fax: 713-937-4254  
rcaughman@park-usa.com  
www.parkprocess.com  
**Ad on page 117**

**Sludge - Collectors/  
Measurement**

**AMWELL, A Div. of McNish Corp.**

North Aurora, IL  
630-898-6900 • Fax: 630-898-6901  
phaizman@amwell-inc.com  
www.amwell-inc.com

**Hawk Measurement**

Lawrence, MA  
888-429-5538 • 978-304-3000 • Fax: 978-304-1462  
info@hawkmeasure.com  
www.hawkmeasure.com

**Sludge - Dewatering/  
Presses**

**Alfa Laval**

Richmond, VA  
866-253-2528  
customerservice.usa@alfalaval.com  
www.alfalaval.us

**Aqseptence Group, Inc. - Johnson Screens**

New Brighton, MN  
800-833-9473 • 651-636-3900 • Fax: 651-638-3171  
charles.flansburg@aqseptence.com  
www.johnsonscreens.com

**Aqualitec Corp.**

Los Angeles, CA  
855-650-2214  
info@aqualitec.com  
www.aqualitec.com

**BDP Industries**

Greenwich, NY  
518-695-6851 • Fax: 518-695-5417  
dan@bdpindustries.com  
www.bdpindustries.com  
**Ad on page 61**

**Bright Technologies,  
Division of Sebright Products, Inc.**

Hopkins, MI  
800-253-0532 • 269-793-7183 • Fax: 269-793-4022  
julie@brightbeltpress.com  
www.brightbeltpress.com  
**Ad on page 85**

**Brown Bear Corporation**

Corning, IA  
641-322-4220 • Fax: 641-322-3527  
sales@brownbearcorp.com  
www.brownbearcorp.com

**Centrisys/CNP**

Kenosha, WI  
262-654-6006 • Fax: 262-764-8705  
info@centrisys.us  
www.centrisys.com  
**Ad on page 17**



**Charter Machine Company**

Metuchen, NJ  
732-548-4400  
walterk@chartermachine.com  
www.chartermachine.com



**DRYCAKE**

Vancouver, BC  
Canada  
877-379-2253 • 604-535-2238  
sales@drycake.com  
www.drycake.com

**FKC Co., Ltd.**

Port Angeles, WA  
360-452-9472 • Fax: 360-452-6880  
mail@fkcscrewpress.com  
www.fkcscrewpress.com



**Flottweg Separation Technology, Inc.**

Independence, KY  
859-448-2331 • Fax: 859-448-2333  
sales@flottweg.net  
www.flottweg.com  
**Ad on page 120**



**GEA Group**

Northvale, NJ  
800-722-6622 • 201-767-3900 • Fax: 201-767-3901  
info.wsus@gea.com  
www.gea.com



**Huber Technology, Inc.**

Huntersville, NC  
704-949-1010 • Fax: 704-949-1020  
marketing@hhusa.net  
www.huberforum.net  
**Ad on page 9**

**Hydra-Tech Pumps**

Nesquehoning, PA  
570-645-3779 • Fax: 570-645-4061  
htpump@hydra-tech.com  
www.hydra-tech.com

**Hydro International**

Hillsboro, OR  
866-615-8130 • 503-615-8130 • Fax: 503-615-2906  
questions@hydro-int.com  
www.hydro-int.com  
**Ad on page 49**

**International Dioxide / ERCO Worldwide**

North Kingstown, RI  
401-295-8800 • Fax: 401-295-7108  
idiclo2.com

**JDV Equipment Corporation**

Dover, NJ  
973-366-6556 • Fax: 973-366-3193  
sales@jdvequipment.com  
www.jdvequipment.com  
**Ad on page 4**



**Komline-Sanderson**

Peapack, NJ  
800-225-5457 • 908-234-1000 • Fax: 908-234-9487  
info@komline.com  
www.komline.com  
**Ad on page 59**



**Ovivo USA, LLC**

Austin, TX  
512-834-6000 • Fax: 512-834-6039  
info.us@ovivowater.com  
www.ovivowater.com

**Park Process**

Houston, TX  
855-511-7275 • 713-937-7602 • Fax: 713-937-4254  
rcaughman@park-usa.com  
www.parkprocess.com  
**Ad on page 117**

**Schwing Bioset, Inc.**

Somerset, WI  
715-247-3433 • Fax: 715-247-3438  
marketing@schwingbioset.com  
www.schwingbioset.com



**Trident Processes LLC**

Abbotsford, BC  
Canada  
800-799-3740 • 604-330-2500  
info@tridentprocesses.com  
tridentprocesses.com

**USP Technologies (US Peroxide)**

Atlanta, GA  
877-346-4262 • 404-352-6070 • Fax: 404-352-6077  
info@uspstechnologies.com  
www.usptechnologies.com

**Veriflo Pump Company**

Cincinnati, OH  
513-530-0888 • Fax: 513-530-0893  
sales@verifloppump.com  
www.verifloppump.com



**VFOLD INC.**  
London, ON  
Canada  
877-818-3653 • 519-659-6941  
sales@vfoldinc.com  
www.vfoldinc.com

**Wastewater Depot, LLC**

Batavia, OH  
513-732-0129 • Fax: 513-735-1485  
info@wastewaterdepot.com  
www.wastewaterdepot.com

**Sludge - Dryers**

**BCR, Inc.**

Jacksonville, FL  
904-819-9170  
marketing@bcrcinc.com  
www.brcinc.com  
**Ad on page 55**

**BDP Industries**

Greenwich, NY  
518-695-6851 • Fax: 518-695-5417  
dan@bdpindustries.com  
www.bdpindustries.com  
**Ad on page 61**

**Brown Bear Corporation**

Corning, IA  
641-322-4220 • Fax: 641-322-3527  
sales@brownbearcorp.com  
www.brownbearcorp.com

**Centrisys/CNP**  
Kenosha, WI  
262-654-6006 • Fax: 262-764-8705  
info@centrisys.us  
www.centrisys.com  
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**DRYCAKE**  
Vancouver, BC  
Canada  
877-379-2253 • 604-535-2238  
sales@drycake.com  
www.drycake.com

**Huber Technology, Inc.**  
Huntersville, NC  
704-949-1010 • Fax: 704-949-1020  
marketing@hhusa.net  
www.huberforum.net  
**Ad on page 9**



**Komline-Sanderson**  
Peapack, NJ  
800-225-5457 • 908-234-1000 • Fax: 908-234-9487  
info@komline.com  
www.komline.com  
**Ad on page 59**

**Parkson Corporation**  
Ft. Lauderdale, FL  
888-727-5766 • Fax: 954-974-6182  
technology@parkson.com  
www.parkson.com

**Schwing Bioset, Inc.**  
Somerset, WI  
715-247-3433 • Fax: 715-247-3438  
marketing@schwingbioset.com  
www.schwingbioset.com

## Sludge - Hauling/Disposal

**Kuhn North America, Inc.**  
Brodhead, WI  
608-897-2131 • Fax: 608-897-2561  
chris.searles@kuhn.com  
www.kuhnnorthamerica.com  
**Ad on page 8**

**Schwing Bioset, Inc.**  
Somerset, WI  
715-247-3433 • Fax: 715-247-3438  
marketing@schwingbioset.com  
www.schwingbioset.com

## Sludge - Heaters

**CleanTek Water Solutions**  
Fridley, MN  
866-929-7773  
info@cleantekwater.com  
www.cleantekwater.com



**Hydro-Thermal Corporation**  
Waukesha, WI  
800-952-0121 • 262-548-8900 • Fax: 262-548-8909  
info@hydro-thermal.com  
www.hydro-thermal.com

**Pick Heaters, Inc.**  
West Bend, WI  
262-338-1191  
info1@pickheaters.com  
www.pickheaters.com

## Sludge - Hydrolysis

**Centrisys/CNP**  
Kenosha, WI  
262-654-6006 • Fax: 262-764-8705  
info@centrisys.us  
www.centrisys.com  
**Ad on page 17**

## Sludge - Land Application

**Schwing Bioset, Inc.**  
Somerset, WI  
715-247-3433 • Fax: 715-247-3438  
marketing@schwingbioset.com  
www.schwingbioset.com

## Sludge - Mixers/Thickeners

**Aeration Industries International**  
Chaska, MN  
800-328-8287 • 952-448-6789 • Fax: 952-448-7293  
air@aireo2.com  
www.aireo2.com

**Alfa Laval**  
Richmond, VA  
866-253-2528  
customerservice.usa@alfalaval.com  
www.alfalaval.us

**AMWELL, A Div. of McNish Corp.**  
North Aurora, IL  
630-898-6900 • Fax: 630-898-6901  
phaizman@amwell-inc.com  
www.amwell-inc.com

**Aqseptence Group, Inc. - Johnson Screens**  
New Brighton, MN  
800-833-9473 • 651-636-3900 • Fax: 651-638-3171  
charles.flansburg@aqseptence.com  
www.johnsonscreens.com

**BDP Industries**  
Greenwich, NY  
518-695-6851 • Fax: 518-695-5417  
dan@bdpindustries.com  
www.bdpindustries.com  
**Ad on page 61**

**Brown Bear Corporation**  
Corning, IA  
641-322-4220 • Fax: 641-322-3527  
sales@brownbearcorp.com  
www.brownbearcorp.com

**Centrisys/CNP**  
Kenosha, WI  
262-654-6006 • Fax: 262-764-8705  
info@centrisys.us  
www.centrisys.com  
**Ad on page 17**

**Charter Machine Company**  
Metuchen, NJ  
732-548-4400  
walterk@chartermachine.com  
www.chartermachine.com

**CleanTek Water Solutions**  
Fridley, MN  
866-929-7773  
info@cleantekwater.com  
www.cleantekwater.com

**DRYCAKE**  
Vancouver, BC  
Canada  
877-379-2253 • 604-535-2238  
sales@drycake.com  
www.drycake.com

**FKC Co., Ltd.**  
Port Angeles, WA  
360-452-9472 • Fax: 360-452-6880  
mail@fkcscrewpress.com  
www.fkcscrewpress.com

**Huber Technology, Inc.**  
Huntersville, NC  
704-949-1010 • Fax: 704-949-1020  
marketing@hhusa.net  
www.huberforum.net  
**Ad on page 9**

**JDV Equipment Corporation**  
Dover, NJ  
973-366-6556 • Fax: 973-366-3193  
sales@jdvequipment.com  
www.jdvequipment.com  
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**Komline-Sanderson**  
Peapack, NJ  
800-225-5457 • 908-234-1000 • Fax: 908-234-9487  
info@komline.com  
www.komline.com  
**Ad on page 59**

**KSB, Inc.**  
Henrico, VA  
804-222-1818 • Fax: 804-226-6961  
sales@ksbusa.com  
www.ksbusa.com

**Kuhn North America, Inc.**  
Brodhead, WI  
608-897-2131 • Fax: 608-897-2561  
chris.searles@kuhn.com  
www.kuhnnorthamerica.com  
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**Ovivo USA, LLC**  
Austin, TX  
512-834-6000 • Fax: 512-834-6039  
info.us@ovivowater.com  
www.ovivowater.com

**Parkson Corporation**  
Ft. Lauderdale, FL  
888-727-5766 • Fax: 954-974-6182  
technology@parkson.com  
www.parkson.com

**Pulsed Hydraulics, Inc.**  
Oroville, WA  
800-641-1726 • 425-785-3225  
info@phiwater.com  
www.phiwater.com  
**Ad on page 116**

**ScreenCo Systems LLC**  
Genesee, ID  
208-790-8770  
sales@screenecosystems.com  
www.screenecosystems.com  
**Ad on page 116**

**Trident Processes LLC**  
Abbottford, BC  
Canada  
800-799-3740 • 604-330-2500  
info@tridentprocesses.com  
tridentprocesses.com

**Vaughan Company, Inc.**  
Montesano, WA  
888-249-2467 • 360-249-4042  
info@chopperpumps.com  
www.chopperpumps.com  
**Ad on page 31**

**Vulcan Industries, Inc.**  
Missouri Valley, IA  
712-642-2755 • Fax: 712-642-4256  
sales@vulcanindustries.com  
www.vulcanindustries.com  
**Ad on page 63**

**Walker Process Equipment, A Div. of McNish Corp.**  
Aurora, IL  
800-992-5537 • 630-892-7921 • Fax: 630-892-7951  
walker.process@walker-process.com  
www.walker-process.com  
**Ad on page 77**

## Sludge - Screening

**Enviro-Care Company**  
Gurnee, IL  
815-636-8306  
ecsales@enviro-care.com  
www.enviro-care.com  
**Ad on page 57**

**Huber Technology, Inc.**  
Huntersville, NC  
704-949-1010 • Fax: 704-949-1020  
marketing@hhusa.net  
www.huberforum.net  
**Ad on page 9**



## Sludge Reduction/ Treatment

### Aeration Industries International

Chaska, MN  
800-328-8287 • 952-448-6789 • Fax: 952-448-7293  
aii@aireo2.com  
www.aireo2.com

### Aqualitec Corp.

Los Angeles, CA  
855-650-2214  
info@aqualitec.com  
www.aqualitec.com

### Aquarius Technologies, LLC

Saukville, WI  
262-268-1500  
info@aquariustechnologies.com  
www.aquariustechnologies.com

### BCR, Inc.

Jacksonville, FL  
904-819-9170  
marketing@bcrcinc.com  
www.brcinc.com

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### Bionetix International

Sainte-Anne-de-Bellevue, QC  
Canada  
514-457-2914 • Fax: 514-457-3589  
info@bionetix.ca  
www.bionetix-international.com

Ad on page 81

### Bright Technologies, Division of Sebright Products, Inc.

Hopkins, MI  
800-253-0532 • 269-793-7183 • Fax: 269-793-4022  
julie@brightbeltpress.com  
www.brightbeltpress.com

Ad on page 85

### Brown Bear Corporation

Corning, IA  
641-322-4220 • Fax: 641-322-3527  
sales@brownbearcorp.com  
www.brownbearcorp.com

### Byo-Gon, Inc.

Charleston, SC  
888-296-4661 • 843-822-3415 • Fax: 843-606-6318  
info@byogon.com  
www.byogon.com

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### Centrisys/CNP

Kenosha, WI  
262-654-6006 • Fax: 262-764-8705  
info@centrisys.us  
www.centrisys.com

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### Flottweg Separation Technology, Inc.

Independence, KY  
859-448-2331 • Fax: 859-448-2333  
sales@flottweg.net  
www.flottweg.com

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### Fluidyne Corporation

Cedar Falls, IA  
319-266-9967 • Fax: 319-277-6034  
fluidyne@fluidynecorp.com  
www.fluidynecorp.com

### Hurst Boiler

Coolidge, GA  
877-994-8778 • 229-346-3545 • Fax: 229-346-3874  
info@hurstboiler.com  
www.hurstboiler.com  
Ad on page 118

### International Dioxide / ERCO Worldwide

North Kingstown, RI  
401-295-8800 • Fax: 401-295-7108  
idiclo2.com

### Ostara Nutrient Recovery Technologies

Vancouver, BC  
Canada  
604-408-6697  
info@ostara.com  
www.ostara.com

### Ovivo USA, LLC

Austin, TX  
512-834-6000 • Fax: 512-834-6039  
info.us@ovivowater.com  
www.ovivowater.com

### Park Process

Houston, TX  
855-511-7275 • 713-937-7602 • Fax: 713-937-4254  
rcaughman@park-usa.com  
www.parkprocess.com

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### Smith & Loveless, Inc.

Lenexa, KS  
800-898-9122 • 913-888-5201 • Fax: 913-888-2173  
answers@smithandloveless.com  
www.smithandloveless.com

### Trident Processes LLC

Abbotsford, BC  
Canada  
800-799-3740 • 604-330-2500  
info@tridentprocesses.com  
tridentprocesses.com

## Software - Operations/ Maintenance

### AllMax Software, Inc.

Kenton, OH  
800-670-1867 • 419-673-8863 • Fax: 419-673-8864  
sales@allmaxsoftware.com  
www.allmaxsoftware.com

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### Emerson Automation Solutions, Power & Water

Pittsburgh, PA  
800-445-9723 • 412-963-4804  
powerwater@emerson.com  
www.emerson.com/water

### EnviroSuite

Burlingame, CA  
424-335-1331  
inquiries@envirosuite.com  
www.envirosuite.com



### Hydromantis Environmental Software Solutions, Inc.

Hamilton, ON  
Canada  
905-522-0012 • Fax: 905-522-0031  
info@hydromantis.com  
www.hydromantis.com

### ProComSol, Ltd

Lakewood, OH  
877-221-1551 • 216-221-1550 • Fax: 216-221-1554  
sales@procomsol.com  
www.procomsol.com

## Software - Process Control/Regulatory

### Activated Carbon Services - PACS

Coraopolis, PA  
800-367-2587 • 724-457-6576  
henry@pacslabs.com  
www.pacslabs.com

### Emerson Automation Solutions, Power & Water

Pittsburgh, PA  
800-445-9723 • 412-963-4804  
powerwater@emerson.com  
www.emerson.com/water

### EnviroSuite

Burlingame, CA  
424-335-1331  
inquiries@envirosuite.com  
www.envirosuite.com

### Hach

Loveland, CO  
800-227-4224 • 970-669-3050  
orders@hach.com  
www.hach.com

### Hydromantis Environmental Software Solutions, Inc.

Hamilton, ON  
Canada  
905-522-0012 • Fax: 905-522-0031  
info@hydromantis.com  
www.hydromantis.com

### Trihedral Engineering Limited

Bedford, NS  
Canada  
800-463-2783 • 902-835-1575 • Fax: 902-835-0369  
pcooke@trihedral.com  
www.trihedral.com

### WEG Electric Corp

Duluth, GA  
800-275-4934  
info-us@weg.net  
www.weg.net/us

## Standard Solutions

## MYRON L COMPANY



### Myron L® Company

Carlsbad, CA  
760-438-2021 • Fax: 760-931-9189  
info@myronl.com  
www.myronl.com

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## Stormwater Monitoring/ Treatment

### Aqua-Aerobic Systems, Inc.

Loves Park, IL  
800-940-5008 • 815-654-2501 • Fax: 815-654-2508  
solutions@aquaaerobic.com  
www.aquaaerobic.com

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### CHEMetrics, Inc.

Midland, VA  
800-356-3072 • 540-788-9026 • Fax: 540-788-4856  
sales@chemetrics.com  
www.chemetrics.com

### Cortec Corporation

St. Paul, MN  
651-429-1100 • Fax: 651-429-1122  
info@cortecvci.com  
www.cortecvci.com

### Duperon Corporation

Saginaw, MI  
800-383-8479 • 989-754-8800 • Fax: 989-754-2175  
info@duperon.com  
www.duperon.com

### EnviroSuite

Burlingame, CA  
424-335-1331  
inquiries@envirosuite.com  
www.envirosuite.com



### Fluence Corporation

Golden Valley, MN  
800-879-3677 • 763-746-9278  
info@fluencecorp.com  
www.fluencecorp.com

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### Hydro International

Hillsboro, OR  
866-615-8130 • 503-615-8130 • Fax: 503-615-2906  
questions@hydro-int.com  
www.hydro-int.com

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**IWAKI America**  
Holliston, MA  
508-429-1440  
info@iwakiamerica.com  
www.iwakiamerica.com

**Keller America Inc.**  
Newport News, VA  
877-253-5537 • 757-596-6680 • Fax: 757-596-6659  
sales@kelleramerica.com  
www.kelleramerica.com  
**Ad on page 41**

**PMC Engineering**  
Danbury, CT  
203-792-8686 • Fax: 203-743-2051  
sales@pmc1.com  
www.pmc1.com

**Rain for Rent**  
Bakersfield, CA  
800-742-7246  
info@rainforrent.com  
www.rainforrent.com

**Trihedral Engineering Limited**  
Bedford, NS  
Canada  
800-463-2783 • 902-835-1575 • Fax: 902-835-0369  
pcooke@trihedral.com  
www.trihedral.com

**VEGA Americas, Inc.**  
Cincinnati, OH  
800-367-5383 • 513-272-0131 • Fax: 513-272-0133  
americas@vega.com  
www.vega.com

## Struvite Removal/Recovery

**Centrisys/CNP**  
Kenosha, WI  
262-654-6006 • Fax: 262-764-8705  
info@centrisys.us  
www.centrisys.com  
**Ad on page 17**

## Submergent Cleaning

  
**U.S. SUBMERGENT  
TECHNOLOGIES**  
U.S. Submergent Technologies  
Winter Park, FL  
844-765-7866  
info@ussubmergent.com  
www.ussubmergent.com

## Switches/Relays

**Amtech Drives, Inc.**  
Atlanta, GA  
770-469-5240  
info@amtechdrives.com  
www.amtechdrives.com

**ElectroSwitch Corporation**  
Weymouth, MA  
781-335-5200  
info@electroswitch.com  
www.electroswitch.com

**Harwil Corp.**  
Oxnard, CA  
805-988-6800 • Fax: 805-988-6804  
sales@harwil.com  
www.harwil.com

**MELTRIC Corporation**  
Franklin, WI  
800-433-7642 • 414-433-2700  
mail@meltric.com  
www.meltric.com  
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**PRIMEX**  
Detroit Lakes, MN  
218-847-1317 • Fax: 218-847-4617  
info@primexcontrols.com  
www.primexcontrols.com

**WEG Electric Corp**  
Duluth, GA  
800-275-4934  
info-us@weg.net  
www.weg.net/us

## Tanks - Chemical Storage

**AmTech Tank Lining & Repair**  
Plymouth, NH  
888-839-0373 • Fax: 603-947-9500  
info@amtechtanklining.com  
www.amtechtanklining.com  
**Ad on page 105**



**Dragon Products, Ltd.**  
Beaumont, TX  
800-231-8198  
sales@modernusa.com  
www.dragonproductsltd.com

**Hawkins Water Treatment Group**  
Roseville, MN  
800-328-5460 • 612-331-6910 • Fax: 612-331-5304  
laura.eilek@hawkinsinc.com  
www.hawkinsinc.com

  
**INDUSCO  
ENVIRONMENTAL**  
Indusco Environmental Services, Inc.  
Spanish Fort, AL  
251-621-2338 • Fax: 251-621-2342  
sales@induscoenviro.com  
www.induscoenviro.com

**KCH Engineered Systems**  
Forest City, NC  
828-245-9836  
khankinson@kchservices.com  
www.kchservices.com

**Lutz-JESCO America Corp.**  
Rochester, NY  
800-554-2762 • 585-426-0990 • Fax: 585-426-4025  
mail@jescoamerica.com  
www.lutzjescoamerica.com

**Peabody Engineering & Supply Inc.**  
Corona, CA  
800-473-2263 • 951-734-7711  
ruth.n@4peabody.com  
www.4peabody.com

**Pulsafeeder**  
Punta Gorda, FL  
800-333-6677 • 941-575-3800 • Fax: 941-575-4085  
kreid@idexcorp.com  
www.pulsatron.com

## Tanks - Cleaning/ Inspection/Repair



**AmTech Tank Lining & Repair**  
Plymouth, NH  
888-839-0373 • Fax: 603-947-9500  
info@amtechtanklining.com  
www.amtechtanklining.com  
**Ad on page 105**

**Environmental Coatings LLC**  
Mesa, AZ  
480-984-7608  
info@sewershield.com  
www.sewershield.com

**Ford Hall Company, Inc.**  
Richmond, KY  
859-624-1077 • Fax: 859-624-3320  
jlowery@fordhall.com  
www.weir-wolf.com  
**Ad on page 79**

**GillTrading.com, Inc./WeirWasher, ACS**  
Beaverton, OR  
866-447-2496 • 503-628-0197 • Fax: 503-646-9293  
brentgill@gilltrading.com  
www.gilltrading.com

**JPCI Services**  
Mesa, AZ  
480-986-1212  
info@ipciservices.com  
www.ipciservices.com



**U.S. Submergent Technologies**  
Winter Park, FL  
844-765-7866  
info@ussubmergent.com  
www.ussubmergent.com

## Tanks - Coatings/Linings

**AGRU America, Inc.**  
Georgetown, SC  
800-373-2478 • 843-546-0600 • Fax: 843-546-0516  
salesmkg@agruamerica.com  
www.agruamerica.com



**AmTech Tank Lining & Repair**  
Plymouth, NH  
888-839-0373 • Fax: 603-947-9500  
info@amtechtanklining.com  
www.amtechtanklining.com  
**Ad on page 105**

**BrandSafway**  
Kennesaw, GA  
800-558-4772 • Fax: 770-514-0285  
www.brandsafway.com

**DRYCAKE**  
Vancouver, BC  
Canada  
877-379-2253 • 604-535-2238  
sales@drycake.com  
www.drycake.com

**Environmental Coatings LLC**  
Mesa, AZ  
480-984-7608  
info@sewershield.com  
www.sewershield.com

**JPCI Services**  
Mesa, AZ  
480-986-1212  
info@ipciservices.com  
www.ipciservices.com

## Tanks - Mixers



**Dragon Products, Ltd.**  
Beaumont, TX  
800-231-8198  
sales@modernusa.com  
www.dragonproductsltd.com

**DRYCAKE**  
Vancouver, BC  
Canada  
877-379-2253 • 604-535-2238  
sales@drycake.com  
www.drycake.com

**JDV Equipment Corporation**  
Dover, NJ  
973-366-6556 • Fax: 973-366-3193  
sales@jdvequipment.com  
www.jdvequipment.com  
**Ad on page 4**

**KSB, Inc.**  
Henrico, VA  
804-222-1818 • Fax: 804-226-6961  
sales@ksbusa.com  
www.ksbusa.com

**Pulsafeeder**  
Punta Gorda, FL  
800-333-6677 • 941-575-3800 • Fax: 941-575-4085  
kreid@idexcorp.com  
www.pulsatron.com



**Red Valve Co. / Tideflex Technologies**

Carnegie, PA  
412-279-0044 • Fax: 412-279-7878  
sales@redvalve.com  
www.redvalve.com  
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**Vaughan Company, Inc.**

Montesano, WA  
888-249-2467 • 360-249-4042  
info@chopperpumps.com  
www.chopperpumps.com  
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**Walker Process Equipment,  
A Div. of McNish Corp.**

Aurora, IL  
800-992-5537 • 630-892-7921 • Fax: 630-892-7951  
walker.process@walker-process.com  
www.walker-process.com  
**Ad on page 77**

**Tanks - Pressure**

**AmTech Tank Lining & Repair**

Plymouth, NH  
888-839-0373 • Fax: 603-947-9500  
info@amtechtanklining.com  
www.amtechtanklining.com  
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**Tanks - Storage**



**Dragon Products, Ltd.**

Beaumont, TX  
800-231-8198  
sales@modernusa.com  
www.dragonproductsltd.com



**DRYCAKE**

Vancouver, BC  
Canada  
877-379-2253 • 604-535-2238  
sales@drycake.com  
www.drycake.com

**Parker Boiler Co.**

Los Angeles, CA  
323-727-9800 • Fax: 323-722-2848  
mleeming@parkerboiler.com  
www.parkerboiler.com  
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**Peabody Engineering & Supply Inc.**

Corona, CA  
800-473-2263 • 951-734-7711  
ruth.n@4peabody.com  
www.4peabody.com



**Premier Tech Aqua**

Riviere-du-Loup, QC  
Canada  
800-632-6356 • 418-867-8883 • Fax: 418-862-6642  
pta@premiertech.com  
www.premiertechaqua.com

**Thermal Flow Meters**



**FCI - Fluid Components International**  
San Marcos, CA  
800-854-1993 • 760-744-6950 • Fax: 760-736-6250  
eflow@fluidcomponents.com  
www.fluidcomponents.com

**Sierra Instruments, Inc.**

Monterey, CA  
800-866-0200 • 831-373-0200 • Fax: 831-373-4402  
info@sierrainstruments.com  
www.sierrainstruments.com

**Truck Loading Bins & Silos**

**Schwing Bioset, Inc.**

Somerset, WI  
715-247-3433 • Fax: 715-247-3438  
marketing@schwingbioset.com  
www.schwingbioset.com

**Turbidity Analyzers**

**CHEMetrics, Inc.**

Midland, VA  
800-356-3072 • 540-788-9026 • Fax: 540-788-4856  
sales@chemetrics.com  
www.chemetrics.com

**Endress+Hauser**

**Endress+Hauser**  
Greenwood, IN  
888-363-7377 • Fax: 317-535-8498  
info@us.endress.com  
www.us.endress.com

**Hach**

Loveland, CO  
800-227-4224 • 970-669-3050  
orders@hach.com  
www.hach.com

**LaMotte Company**

Chestertown, MD  
800-344-3100 • 410-778-3100 • Fax: 410-778-6394  
mki@lamotte.com  
www.lamotte.com  
**Ad on page 91**

**Lovibond Tintometer**

Sarasota, FL  
800-922-5242 • 941-756-6410 • Fax: 941-727-9654  
sales@tintometer.us  
www.lovibond.us  
**Ad on page 51**

**Van London Co.**

Houston, TX  
800-522-7920 • 832-456-6641 • Fax: 832-456-6642  
info@vanlondon.com  
www.vanlondon.com

**Ultrasonic Flow Meters**

**AMETEK Drexelbrook**

Horsham, PA  
215-674-1234 • Fax: 215-674-2731  
drexelbrook.info@ametek.com  
www.drexelbrook.com

**Badger Meter**

Milwaukee, WI  
877-243-1010  
infocentral@badgermeter.com  
www.badgermeter.com



**Blue-White Industries**

Huntington Beach, CA  
714-893-8529 • Fax: 714-894-9492  
sales@blue-white.com  
www.blue-white.com  
**Ad on page 2**

**Burkert Fluid Control Systems**

Huntersville, NC  
704-504-4440 • Fax: 949-223-3198  
marketing-usa@burkert.com  
www.burkert-usa.com

**Endress+Hauser**

**Endress+Hauser**  
Greenwood, IN  
888-363-7377 • Fax: 317-535-8498  
info@us.endress.com  
www.us.endress.com

**Neptune Technology Group**

Tallassee, AL  
800-633-8754 • 334-283-6555 • Fax: 334-283-7293  
marketing@neptunetg.com  
www.neptunetg.com

**ProMinent Fluid Controls, Inc.**

Pittsburgh, PA  
412-787-2484 • Fax: 412-787-0704  
sales@prominent.us  
www.prominent.us

**Siemens Industry Process Instrumentation**

Harleysville, PA  
800-333-7421 • 631-231-3600  
www.usa.siemens.com/pi



**Sierra Instruments, Inc.**

Monterey, CA  
800-866-0200 • 831-373-0200 • Fax: 831-373-4402  
info@sierrainstruments.com  
www.sierrainstruments.com

**Sure Flow Products, LLC**

Wixom, MI  
248-380-3569 • Fax: 248-380-3568  
sales@sureflowproducts.com  
www.flowmetersource.com

**YSI, a Xylem brand**

Yellow Springs, OH  
800-765-4974 • 937-767-7241  
info@ysi.com  
www.yxi.com  
**Ad on page 43**

**Your Turn Key Solution For Steel, Concrete and Fiberglass Tank Lining, Coating and Repairs**

**AmTech**  
Tank Lining Systems

**Serving 50 States and Canada**  
**(888) 839-0373**

www.amtechtanklining.com info@amtechtanklining.com

## UV Disinfection Equipment

**Ovivo USA, LLC**  
Austin, TX  
512-834-6000 • Fax: 512-834-6039  
info.us@ovivowater.com  
www.ovivowater.com

**Premier Tech Aqua**  
Riviere-du-Loup, QC  
Canada  
800-632-6356 • 418-867-8883 • Fax: 418-862-6642  
pta@premiertech.com  
www.premiertechaqua.com

**ProMinent Fluid Controls, Inc.**  
Pittsburgh, PA  
412-787-2484 • Fax: 412-787-0704  
sales@prominent.us  
www.prominent.us



**SALCOR, Inc.**  
Fallbrook, CA  
760-731-0745 • Fax: 760-731-2405  
jscruver@aol.com  
**Ad on page 116**

**Sensorex**  
Garden Grove, CA  
714-895-4344  
info@sensorex.com  
www.sensorex.com



**UV Pure Technologies, Inc.**  
Toronto, ON  
Canada  
888-407-9997 • 416-208-9884 • Fax: 416-208-5808  
info@uvpure.com  
www.uvpure.com

**Wastewater Depot, LLC**  
Batavia, OH  
513-732-0129 • Fax: 513-735-1485  
info@wastewaterdepot.com  
www.wastewaterdepot.com

## Valves - Actuators/ Controls

**Asahi/America, Inc.**  
Lawrence, MA  
800-343-3618 • 781-321-5409 • Fax: 800-787-6861  
asahi@asahi-america.com  
www.asahi-america.com

**Badger Meter**  
Milwaukee, WI  
877-243-1010  
infocentral@badgermeter.com  
www.badgermeter.com

**Burkert Fluid Control Systems**  
Huntersville, NC  
704-504-4440 • Fax: 949-223-3198  
marketing-usa@burkert.com  
www.burkert-usa.com

**Cla-Val**  
Costa Mesa, CA  
800-942-6326 • 949-722-4800  
info@cla-val.com  
www.cla-val.com

**Flomatic Valves**  
Glens Falls, NY  
800-833-2040 • 518-761-9797 • Fax: 518-761-9798  
flomatic@flomatic.com  
www.flomatic.com

**Flowrox, Inc.**  
Linthicum, MD  
410-636-2250 • Fax: 410-636-9062  
sales-us@flowrox.com  
www.flowrox.com  
**Ad on page 27**

**Halogen Valve Systems, Inc.**  
Irvine, CA  
949-261-5030 • Fax: 949-261-5033  
info@halogenvaive.com  
www.halogenvaive.com



**Hayward Flow Control**  
Clemmons, NC  
888-429-4635 • Fax: 888-778-8410  
hfcsales@hayward.com  
www.haywardflowcontrol.com

**Hoffman & Lamson, by Gardner Denver**  
Bentleyville, PA  
724-239-1500 • Fax: 724-239-1502  
info.hoffmanlamson@gardnerdenver.com  
www.hoffmanandlamson.com

**Hydro-Thermal Corporation**  
Waukesha, WI  
800-952-0121 • 262-548-8900 • Fax: 262-548-8909  
info@hydro-thermal.com  
www.hydro-thermal.com

**Red Valve Co. / Tideflex Technologies**  
Carnegie, PA  
412-279-0044 • Fax: 412-279-7878  
sales@redvalve.com  
www.redvalve.com  
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**Shand & Jurs**  
Hillside, IL  
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### HOBAS Pipe USA vice president elected ASTM subcommittee chair

Richard Turkopp, P.E., the vice president of engineering for HOBAS Pipe USA, was appointed as the subcommittee chairman for ASTM International D20.23 on Reinforced Plastic Piping Systems and Chemical Equipment. He has been with HOBAS Pipe USA since 1987, and his involvement with ASTM standardization dates back to 1981.



Richard Turkopp

### American Water Works Association launches redesigned Career Center

The AWWA announced the launch of its redesigned Career Center. The updated site will better connect job seekers and employers in the water industry.

### Mazzei Injector and The TDH Co. to collaborate

Mazzei Injector announced that The TDH Co. will represent them in the municipal water and wastewater sector throughout Alabama, Georgia, eastern Tennessee and the western portion of the Florida Panhandle.

### AdEdge Water Technologies Rotec Flow-Reversal Osmosis technology

AdEdge Water Technologies has added Rotec Flow-Reversal Osmosis technology to its core product offerings. The companies are entering into an exclusive licensing agreement to distribute the Flow-Reversal Reverse Osmosis technology in North America. The Flow-Reversal Reverse Osmosis utilizes standard nonproprietary equipment and can be implemented in all newly built municipal and industrial RO systems and can be retrofitted to existing RO systems.

### Xylem announces acquisition of EmNet

Xylem announced it acquired EmNet. Financial terms were not disclosed. EmNet's core technology and expertise in real-time decision support systems was developed as a multidisciplinary approach to solve watershed and collections system challenges. The company was launched in 2004 as a collaborative partnership between the city of South Bend, Indiana, and the University of Notre Dame.

### DSI Dynamatic announces new VP

DSI Dynamatic named Jay Jensen its new vice president of sales and marketing. He will focus on increasing market share of the company's product line throughout a variety of industry applications and introduction of new system solutions. Jensen will work out of Dynamatic's headquarters in Sturtevant, Wisconsin.



Jay Jensen

### New Parkson University video series

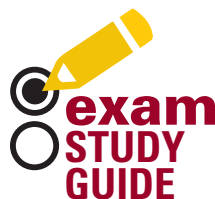
Parkson Corp. announced the release of Parkson University, an educational video series that reviews the basics of wastewater treatment and is geared to both beginners and experienced wastewater industry professionals. The full list of videos can be seen on the company's YouTube channel: [www.youtube.com/parksoncorporation](http://www.youtube.com/parksoncorporation).

### Blue-White Industries receives ISO certification

Blue-White Industries announced it is now ISO 9001:2015 certified, the internationally recognized standard for quality management systems.

### SEEPEx announces hiring of new managers

SEEPEx announced the hiring of Brian Wright as new business development manager; Eric Kearbey as new territory sales manager for the Midwest; Willie Hodess as new territory sales manager for Manitoba and Ontario; and Bob Brieno as territory sales manager for the West Coast, including California, Oregon, Washington, Hawaii, Alaska and a portion of Nevada. **tpo**



By Ron Trygar

Licensing exams can be challenging. Our **Exam Study Guide** helps you prepare by presenting questions similar to those on an actual exam. You can find many more sample questions on the *TPO* website at [www.tpomag.com/study](http://www.tpomag.com/study).

## WASTEWATER

**Which type of filter is used to reduce the organic loading on downstream biological processes?**

- A. Tertiary filter
- B. Vacuum filter
- C. Traveling bridge rapid sand filter
- D. Roughing filter

**ANSWER:** D. A roughing filter may be used where very high organic strength waste must be biologically treated. The roughing filter is essentially a high-rate trickling filter placed ahead of other biological treatment processes, such as rotating biological contactors, other trickling filters, or activated sludge processes. The roughing filter is placed in the flow pattern just after the primary clarifiers but before the downstream biological processes. Roughing filters could see organic loading rates up to or exceeding 300 pounds of BOD per day per 1,000 cubic feet of media. A standard-rate trickling filter would likely see only up to 25 pounds of BOD per day per 1,000 cubic feet of media.

## DRINKING WATER

**What is a disadvantage of ion exchange softening?**

- A. The amount of land space needed to build the plant
- B. The complexity of the operation and amount of training needed
- C. Disposal of the spent brine and rinse water
- D. Excessive operation and maintenance costs

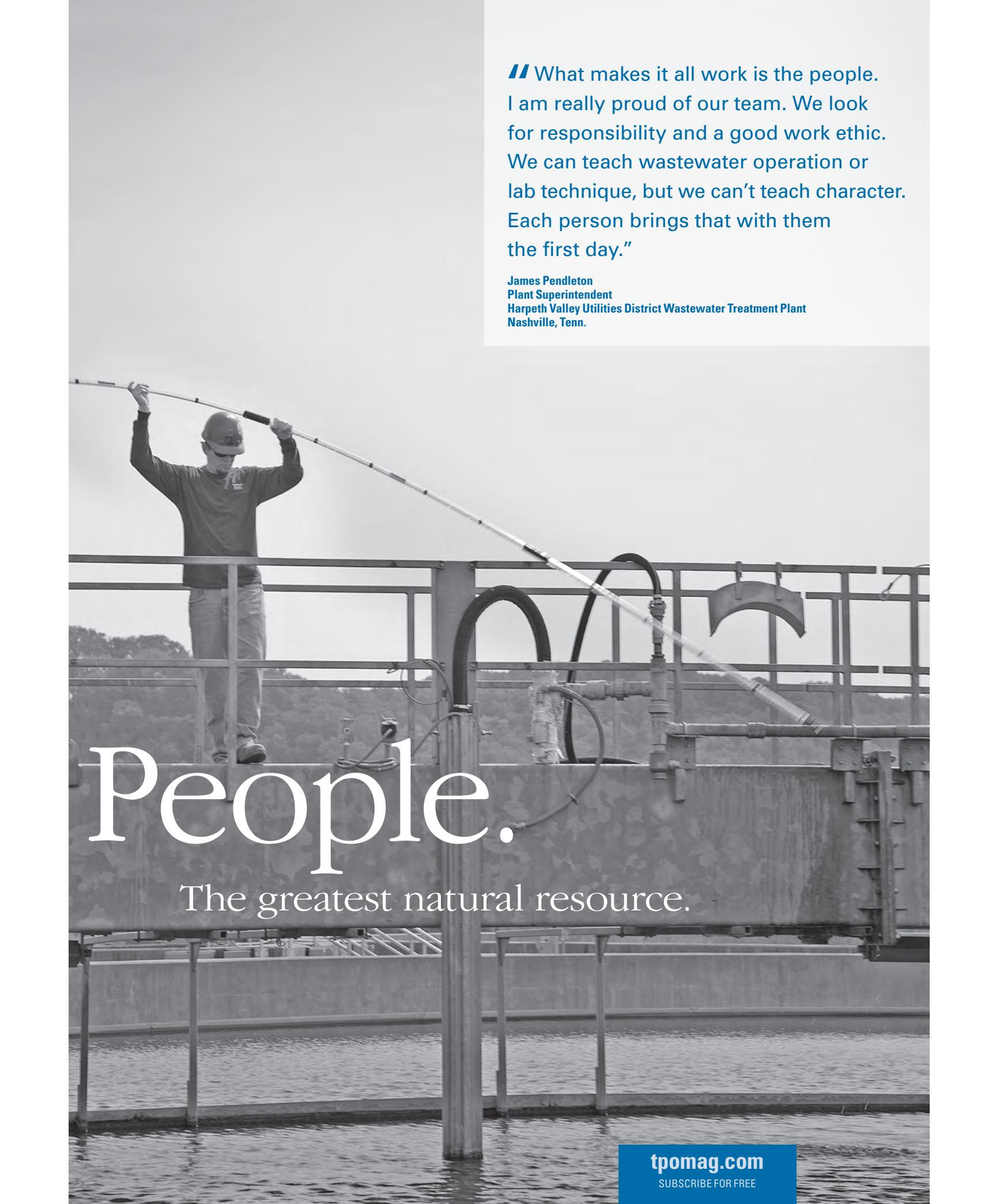
**ANSWER:** C. Ion exchange softening is a relatively straightforward process of water softening and capable of reducing the finished water hardness to zero. The process consists of service, backwash, brine and rinse stages. A disadvantage of the process is figuring out what to do with the spent brine and rinse water. These are considered industrial strength wastes since the amount of total dissolved salts, conductivity and pH can be very high.

Discharge of these wastes into a sanitary sewer is common, especially if the utility owns both the drinking water and wastewater treatment plants. However, the wastewater plant operator must be made aware of the discharges since they may affect the biological processes. Slug loads of water with high pH, conductivity and saline can harm the bacteria used for secondary treatment, so it is imperative that these wastes be controlled. The ion exchange plant may have to apply for an industrial waste discharge permit from the receiving utility to accept the spent brine, backwash and rinse waters.

### ABOUT THE AUTHOR

*Ron Trygar, a certified environmental trainer, is the senior training specialist for water and wastewater programs at the University of Florida TREEO Center. He has worked in the wastewater industry for more than 30 years and holds Class A Wastewater Treatment Operator and Class B Drinking Water Operator licenses in Florida. tpo*





// What makes it all work is the people. I am really proud of our team. We look for responsibility and a good work ethic. We can teach wastewater operation or lab technique, but we can't teach character. Each person brings that with them the first day."

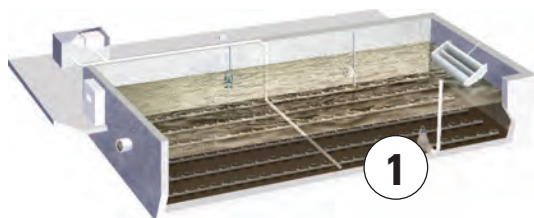
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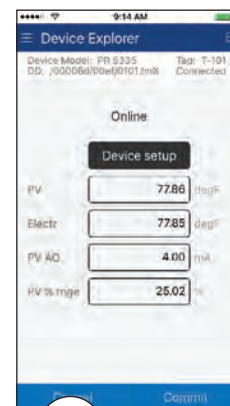
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Asahi/America's Type-57P butterfly valve is available in an ANSI wafer-style connection and includes two molded tag holes in the valve body for user-defined valve identification and a highly visible throttle positioning plate. The plate makes accurate throttle positioning between zero and 90 degrees possible. The body and disc are injection molded for



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## wastewater: product spotlight

### Enhanced Performance Management

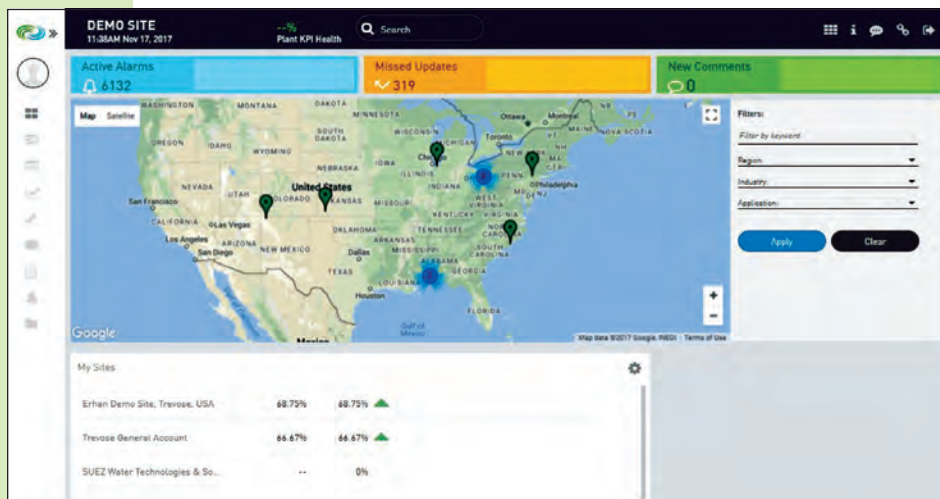
By Craig Mandli

It can be easy to get bogged down trying to decide what data is needed to determine optimum efficiency in your plant. But utilizing an automated **asset performance management system** like **InSight** from **SUEZ – Water Technologies & Solutions** can help ease that burden. Its secure, cloud-based interface uses data and analytics to ensure assets operate at higher levels of reliability, efficiency and output.

Incorporating modern digital design trends and best practices, InSight offers users greater visibility and transparency into their wastewater treatment operations. Recent improvements — including a geomap feature and simplified navigations — aim to make it easier to use while expanded reporting and file management features enable sharing and analysis of key data points at all levels of an organization.

“For chemical customers, InSight can monitor fill tanks, track reorder data and has the ability to link to other enterprise systems to automate reordering when the chemicals cross below a preset threshold,” says Ashish Aneja, digital innovation leader at SUEZ. “For customers operating SUEZ equipment, InSight can monitor key performance indicators to alert operators of a problem or blockage before it impacts operations; it can also be used to determine the optimal cleaning schedules for membranes or even replacement timing.”

Enhancements to the system include a geomap and asset fleet view that provide enhanced views of all the assets managed and key performance indicators across multiple plants; a modernized user interface and navigation that provides new data-oriented views with easy access to the information used on a daily basis; expanded multisite reporting capability that provides a new level of visibility and transparency to an organization; and additional structure and flexibility within the file management feature. According to Aneja, the base platform by itself is suited for almost all applications where visibility to data and acting on the data is useful, including troubleshooting pervasive issues, optimizing chemical and/or energy usage, and maximizing asset life.



InSight from SUEZ – Water Technologies & Solutions

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(continued)

water:  
product spotlight

## Inject at high pressure

By Craig Mandli

At the well sites of many smaller water treatment plants, operators often need to inject disinfection chemicals into waterlines at high pressures. The **Qdos 20 peristaltic metering pump** from **Watson-Marlow Fluid Technology Group** is a fit for those applications.

The pump offers accurate sodium hypochlorite metering in disinfection applications with flow rates to 5.3 gph at a maximum of 100 psi. It is designed as a drop-in replacement for diaphragm pumps and includes the ReNu pump head for single, no-tools maintenance.

Its intuitive interface provides simple control of the pump via manual, 4-20mA, contact or PROFIBUS control. The brushless DC motor control maintains flow accuracy of plus or minus 1 percent, with a repeatability of plus or minus 0.5 percent and a turndown ratio of 3,330-1.

The pump is ideally suited for tight control of chlorine residual, according to the maker. Successful field trials and SCADA data indicate a considerable improvement in variation of chlorine residual compared to even the highest specification diaphragm metering pumps. This is achieved via the twin offset rotor design. It comes with manual, analog, or contact mode functionality, with an intuitive 3.5-inch color display. It comes in a watertight, dustproof enclosure with an IP66 rating and can be operated in temperatures ranging from 41 to 104 degrees F.

The pump employs two tube channels operated out of phase. Although peristaltic pumps are generally lower in pulsation than other positive displacement pumps, the Qdos 20 reduces this pulsation even further using alternate tube compressions, ensuring pulsation is balanced out. This

Qdos 20 peristaltic metering pump from Watson-Marlow Fluid Technology Group



results in almost continual positive fluid displacement and consistent metering of chemical into the application.

Process uptime is maximized by facilitating quick, safe, and easy pump head removal and replacement with no gas-locking; no valve blocking; and no need for tools, special training and maintenance technicians on site. The contained pump head design with integral leak detection reduces waste and eliminates operator exposure to chemicals.

Field trials have confirmed the long life of the pump head, with one utility in Victoria, Minnesota, experiencing 12 months pump head life. “Water applications need a reliable feed for chemicals, and it is especially important to keep sodium hypochlorite running,” says Clark Corbett, sales engineer for Vessco, the city’s chemical feed equipment supplier. “Smaller towns tend to have limited maintenance personnel. With this technology, they only need to periodically replace the pump head.” **800-282-8823; www.wmftg.com**

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## people/awards

The city of **Rocky Mount Tar River Regional Wastewater Treatment Plant** received the 2017 Operations and Maintenance Excellence Award for the Eastern Region from the North Carolina Section of the American Water Works Association and the North Carolina Water Environment Association.

The city of **Walterboro Wastewater Treatment Plant** received the 2017 Wastewater System of the Year award from the South Carolina Rural Water Association.

**Fluence** received the 2018 Global Decentralized Water & Wastewater Treatment Company of the Year award from Frost & Sullivan.

**James Powe** was hired as a wastewater operator for the town of Scooba, Mississippi.

The **town of Clinton** received a \$40,000 grant for its wastewater system from a program administered by the Massachusetts Department of Environmental Protection.

**Allison Strube** was hired as water utilities director for the city of San Angelo, Texas. Strube, assistant director since 2015, replaced **Bill Riley**, who retired.

**Brandon Averill** was named wastewater superintendent for Geneva, Ohio. He replaced **Gary Hydinger**, who retired after serving with the wastewater department since 1995.

The city of **Winston-Salem's Archie Elledge Wastewater Treatment Plant** received the 2017 Operations and Maintenance Excellence Award from the Central Region of the North Carolina Professional Wastewater Operators Committee.

The village of **Wellington Water Reclamation Facility** received the 2017 Plant Operations Excellence Award from the Florida Department of Environmental Protection. The facility also earned the award in 2004, 2005, 2006 and 2015.

**Karen Honer**, superintendent of the White Slough Wastewater Treatment Plant in Lodi, California, retired effective March 6.

**Peter LaBonte**, chief operator of the North Conway (New Hampshire) Wastewater Treatment Facility, received the 2017 Regional Wastewater Treatment Plant Operator of the Year Excellence Award from the EPA.

The **Northumberland (New Hampshire) Wastewater Treatment Facility** received a 2017 Regional Wastewater Treatment Plant Excellence Award from the EPA.

**Kristin A. Waller** received the 2017 Linn H. Enslow Memorial Award from the New York Water Environment Association for her role as lead author of a research paper on wastewater treatment design and construction.

**Paul Dombrowski**, senior technical practice leader with Woodard & Curran of Enfield, received a 2017 Regional Wastewater Trainer of the Year Excellence Award from the EPA New England regional office.

The Florida Department of Environmental Protection presented the 2017 Plant Operations Excellence Awards to the city of **Dunedin, Hillsborough County Lithia Water Treatment Plant**, and **Tarpon Springs Advanced Wastewater Treatment Facility**.

## events

### April 29-May 2

Arkansas Water Works & Water Environment Association 2018 Conference, Embassy Suites Hotel, Hot Springs, Arkansas. Visit [www.awwwea.org](http://www.awwwea.org).

### May 2-4

Arizona Section of the AWWA Annual Conference, Phoenix Convention Center. Visit [www.azwater.org](http://www.azwater.org).

### May 6-8

2018 Water Research Foundation Conference on Advancing Reuse and Integrated Water, Westin Peachtree Plaza, Atlanta. Visit [www.werf.org](http://www.werf.org).

### May 7-8

AWWA Effective Utility Management Seminar, WaterOne Hansen Treatment Plant, Kansas City, Kansas. Visit [www.awwa.org](http://www.awwa.org).

### May 7-9

Alaska Water Wastewater Management Association Conference, Anchorage Marriott Downtown hotel. Visit [www.awwma.org](http://www.awwma.org).

### May 7-11

New Jersey Water Environment Association Annual Conference and Exposition, Bally's Atlantic City hotel. Visit [www.njwea.org](http://www.njwea.org).

### May 8-10

Pennsylvania Section-AWWA Annual Conference, Kalahari Resorts, Pocono Mountains. Visit [www.paawwa.org](http://www.paawwa.org).

### May 9-10

AWWA Customer Service Seminar, WaterOne Hansen Treatment Plant, Kansas City, Kansas. Visit [www.awwa.org](http://www.awwa.org).

### May 13-15

BC Water & Waste Association Annual Conference, Penticton Trade and Convention Centre. Visit [www.bcwwa.org](http://www.bcwwa.org).

### May 15-17

Montana Section AWWA Annual Conference, Hilton Garden Inn, Missoula, Montana. Visit [www.montanawater.org](http://www.montanawater.org).

### May 15-18

Residuals and Biosolids Conference 2018 presented by the Water Environment Federation, Arizona Water Environment Association and Water Research Foundation, Phoenix Convention Center, Phoenix. Visit [www.wef.org](http://www.wef.org).

### May 15-18

WEF Resilience of the Water Sector EWA/JSWA/WEF Conference, Munich, Germany. Visit [www.wef.org](http://www.wef.org).

### May 17

Puerto Rico Section AWWA Annual Conference, San Juan, Puerto Rico. Visit [www.prwea.org](http://www.prwea.org).

### May 20-23

West Virginia Section of the AWWA Annual Conference, Canaan Valley Resort, Davis, West Virginia. Visit [www.wvawwa.org](http://www.wvawwa.org).

### May 23-25

Connecticut Section AWWA Annual Conference, Brewster, New York. Visit [www.ctawwa.org](http://www.ctawwa.org).

The **Milton (Vermont) Wastewater Treatment Facility** received a 2017 Regional Wastewater Treatment Plant Excellence Award from the EPA.

The **Crooked River Wetlands** project in Prineville, Oregon, was named Project of the Year in the 2018 Engineering Excellence Awards hosted by the American Council of Engineering Companies.



The **Town of Peterborough, New Hampshire** and the Lewiston-Auburn (Maine) Water Pollution Control Authority received 2017 Regional Industrial Pretreatment Program Excellence Awards from the EPA New England regional office.

The **Henry County Water Authority** received the Georgia Association of Water Professionals' Collection System Platinum Award for sewer system performance, Distribution System Gold Award for its water system, Quality Assurance Award for its water-quality laboratory, and Consumer Confidence Report Award. Cody Kelly was named Top Maintenance Technician, and Tom Peters received the Customer Service Award. All awards were for 2017.

The **Framingham (Massachusetts) Department of Public Works Water Department** received the 2017 Utility of the Year award in the large utility category from the New England Water Works Association.

**Tracy Marlow**, wastewater/water chief laboratory technician in Cedartown, Georgia, received that community's Bobby Alexander Public Works Award.

The **West Warwick (Rhode Island) Wastewater Treatment Facility** received a 2017 Regional Wastewater Treatment Plant Excellence Award from the EPA New England regional office.

**Robert Motley**, plant maintenance and instrumentation supervisor for the Mammoth Community Water District, was named 2017 Electrical/Instrumentation Person of the Year by California Water Environment Association.

**Jack Wendler**, lead operator at the Ripon (Wisconsin) Wastewater Treatment Plant, retired after 38 years as a city employee.

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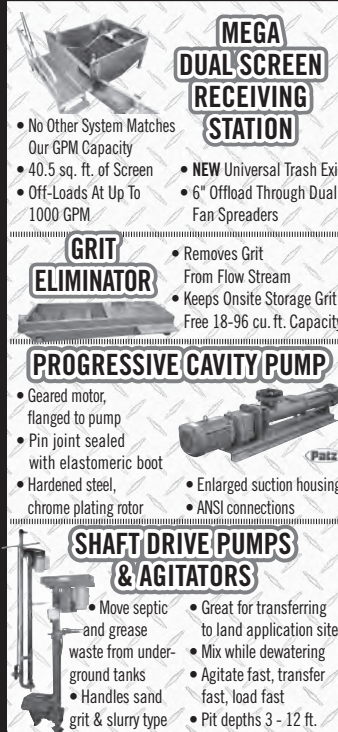
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