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FOR SANITARY, STORM AND WATER SYSTEM MAINTENANCE

September 2021

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BUILDING SYSTEM STRENGTH

Iowa city addresses
aging infrastructure
and tightens up its
wastewater system

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Wastewater operators
Jared Keenan (left)
and Norman Hart
Indianola, Iowa

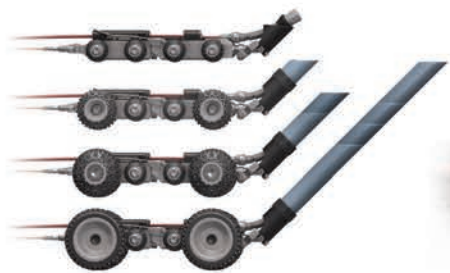
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


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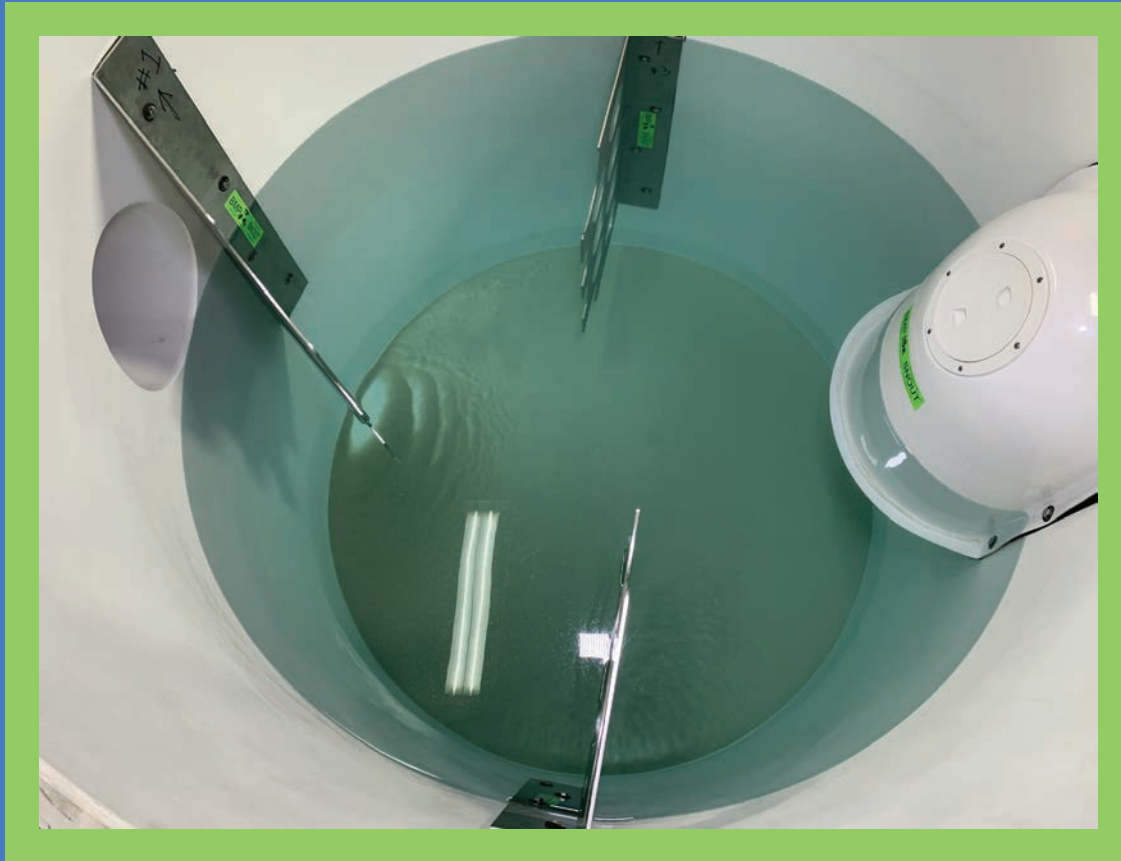
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ANNUAL BUYER'S GUIDE



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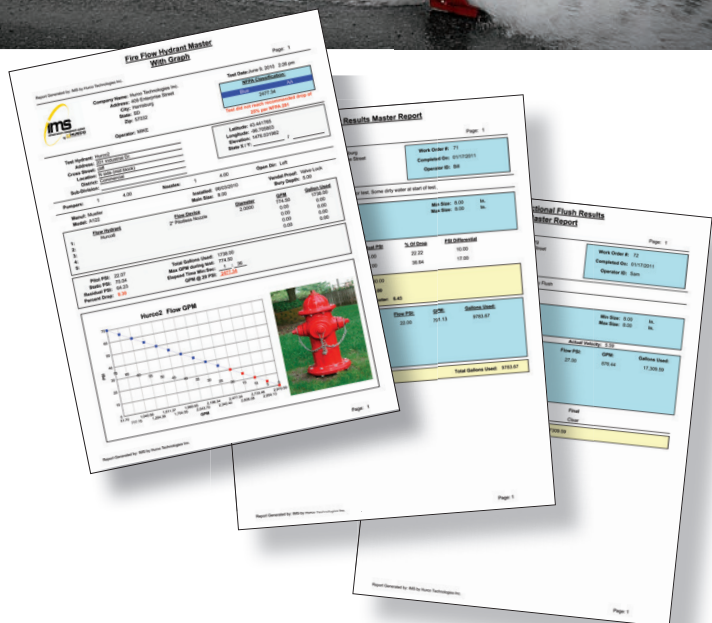


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Luke Laggis

FIGHTING FOR WATER

Drought is causing serious issues, but therein lies opportunity to move forward

A few weeks ago, one of my friends referenced a podcast or article he'd read about how the next great catastrophe will revolve around access to clean water.

We didn't dive too deep into it, but my immediate thought was about water rights issues and disputes across the parched American West. My second thought was of the column I wrote in the July issue of *MSW*, about the abundant water resources in the area I live.

For the past two weeks an older man with a gray beard and what appears to be his two grandsons have been anchoring a pontoon boat in front of

my house in the evening. They fish in front of my house for a couple hours and then head out just before dark. Sometimes it's slightly annoying if I'm on the dock or swimming, but I don't own the lake — only the land leading up to my 100 feet of frontage. That's about as close as I've ever come to a water dispute.

Shortly after my friend brought it up, I saw a couple stories about the drought out West. "We're Inching Towards Actual Violence Over Access to Water" read one headline. "'Mega-drought' depletes system that provides water to 40 million" the other stated. The former referred to the drought's effects as "another crisis within the general climate crisis." The latter included links to several stories about climate change and "tipping points."

It really doesn't matter what you or your customers think of the causes of climate change. Whether it's caused by humans or any number of other factors, we are one country and some of our states are drying up. The Colorado River is doing all it can, but this drought is historic and the effects are very real. That said, I don't think California is going to be abandoned; I don't think Californians are going to leave en masse for Minnesota and Wisconsin.

There's an incredible amount of technology and innovation in the water and wastewater industry.

Twenty-five years ago many of the processes and systems you use on a daily basis were science fiction. We don't know what tomorrow might bring.

There's an incredible amount of technology and innovation in the water and wastewater industry. I believe we'll find more efficient ways to manage our resources and better means of preventing loss. Maybe desalination will become a bigger piece of the puzzle. Reuse is certainly part of the mix as well, but you have to have it before you can reuse it.

I certainly don't have the answers. I don't pretend to share your level of expertise. But based on what I know of this industry, I believe we'll find the solution. I believe we can find a way to adapt to these changes, if not counteract them.

Twenty-five years ago, many of the processes and systems you use on a daily basis were science fiction. We don't know what tomorrow might bring. The solutions to these problems could lie in the mind of a West Coast engineer or in the head of an unknowing 12-year-old halfway around the world, but I do think they exist, and I like being part of an industry with the capabilities to solve problems that impact so many people.

Enjoy this month's issue. ♦

Comments on this column or about any article in this publication may be directed to editor Luke Laggis, 800-257-7222; editor@mswmag.com.

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FIGHTING I&I

Get Creative

Rich Cummings is one of the industry's most passionate advocates for inflow and infiltration mitigation. Slated to retire this fall from his position as director of Hillsborough County (Florida) Field Maintenance Services Division, one of his goals is to help ensure the county remains positioned to fight leaks.

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OVERHEARD ONLINE

“Are you really never supposed to experience uncertainty as a leader? You are a human being and hardwired for struggle — stuff happens.”

— **5 Ways Successful Leaders Deal With Uncertainty**
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NEW METERS

Less Wasted Water

To detect leaks and promote sustainability, the University of Southern California's University Park Campus is installing ultrasonic submeters on dozens of older buildings and cooling towers. The new meters will count

every gallon, giving facility managers the data they need to track trends, detect leaks, and strategize water conservation.

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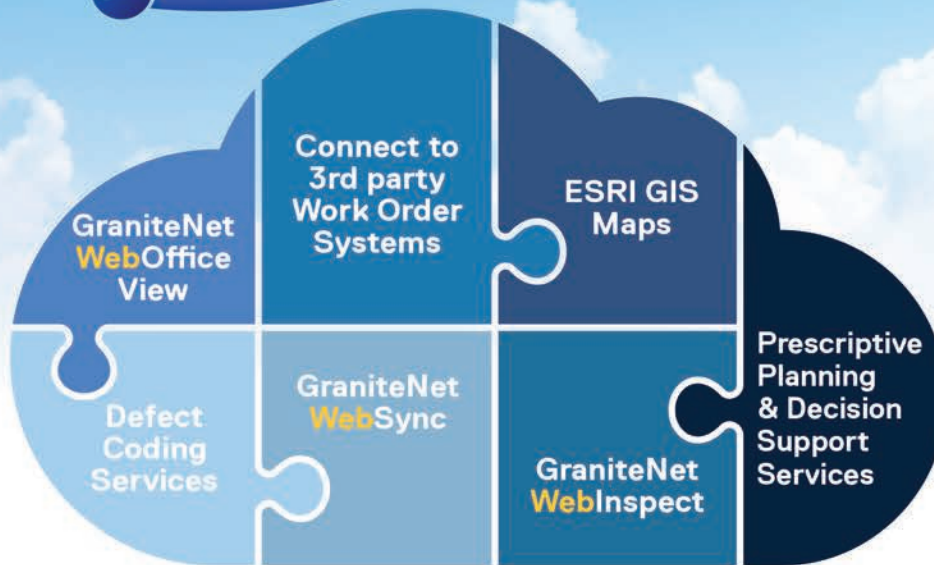
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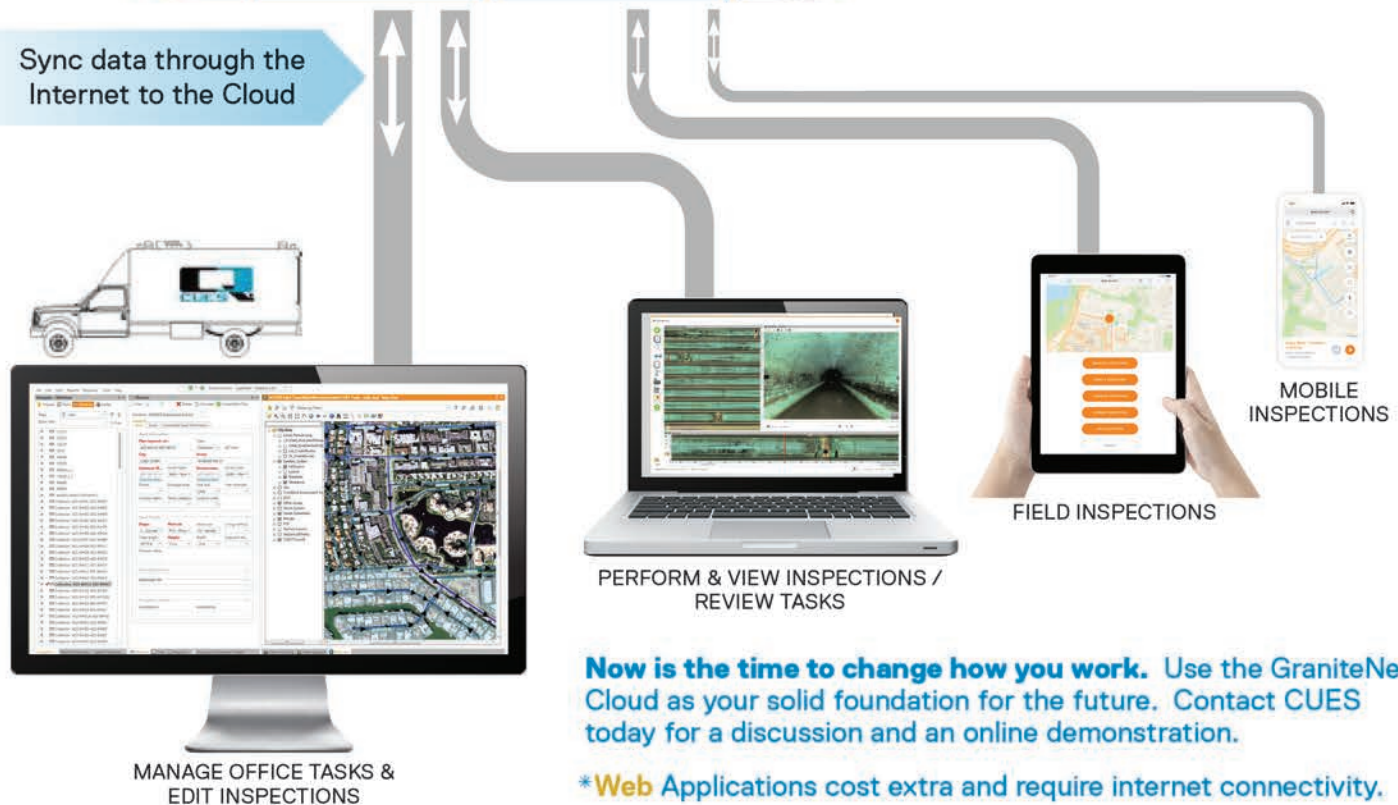
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BUILDING SYSTEM STRENGTH

Iowa city addresses aging infrastructure and tightens up its wastewater system

By Giles Lambertson

Water leaks. Wastewater leaks. Infiltration. Indianola, Iowa, has experienced all of it, but the utility is gaining ground.

The City's Water Pollution Control department had an awakening in 2009 when the state's Department of Natural Resources issued a mandate to remove all groundwater from its sewer collections system. For the Warren County seat, a city of 16,000 in south-central Iowa, it was a tall order.

Crews subsequently worked their way through the system, first inspecting and sealing manholes against water infiltration. Then they methodically inspected the network of pipes — one quadrant of the city at a time — searching out leak points in pipe that averages 35 to 40 years old.

Quick action got the process moving in the right direction, and the DNR lifted its mandate in 2014 on the strength of progress made and the community's pledge to keep reducing inflow and infiltration. City Manager Ryan Waller and wastewater department superintendent Rick Graves have been overseeing the effort to live up to the terms of the consent order since their arrival in 2016 and 2015, respectively.

Superintendent Rick Graves and the Indianola (Iowa) Water Pollution Control department began their quest to cut I&I and eliminate overflows by inspecting and sealing manholes, then moving on to the rest of the collections system.

Public trust

The system's sewer lines are composed mostly of 8-inch clay with some PVC mixed in. Larger sections of pipe range up to 30 inches in diameter.

Initial inspection of the system turned up lots of lateral line problems, but also significant infusions of groundwater in sewer mains. In 2017, Indianola's city council approved a regimen of pipe inspections on private properties with penalties for failure to correct discovered problems. Property transactions now require inspection of sewer laterals and hookups.

Inspectors most commonly encounter roof gutters and sump pumps connected to the sanitary sewer system, laterals separated or cracked by tree roots and age, and uncapped cleanout pipes. The inspections on private properties became voluntary in 2018. In the interim, some of the oldest properties were inspected and corrected. The community's newer housing stock generally harbored fewer improper hookups.

"We still have some issues with laterals," says Graves.



PROFILE:

Indianola (Iowa) Water Pollution Control

SERVICE AREA:
11.5 square miles

DEPARTMENT EMPLOYEES:
6

SEWER CUSTOMERS/CONNECTIONS:
5,800

MILES OF SEWER MAIN:
93

COLLECTION SYSTEM:
7 lift stations and 23 pumps

MANHOLES:
2,085

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"The collaborative effort was in the best interests of the property owners and of the department."

Rick Graves

However, City Hall is counting on property buyers volunteering for inspections to protect their investment. "We're going to move ahead and get our sewer mains buttoned up and go from there."

Waller says that when he and Graves came onboard with the city, there wasn't much being done. "So, we had conversations with our community partners at local real estate offices and they had a hand in crafting the inspection ordinance," he says. "That was a good thing. The question was how we could work with residents and real estate agents in selling our community. The collaborative effort was in the best interests of the property owners and of the department."

One of Waller's key guidelines is working with the various components of the community. He refers to the Four C's — communication, collaboration, community engagement and customer service — in talking about that work.

"The state's mandate was kind of a heavy hand, and the first smoke testing to find leaks had a negative connotation in the community," he says. "We have a great team and hosted a community meeting to share with residents what we were doing, showing them that collapsed lines cost them money and that the inspections were doing them a service. We didn't want to come down heavy-handed, too."

Engaging with the community had the residual effect of building long-term public trust in the administration and the wastewater department. That makes sewer rate increases more palatable for residents. In fact, Indianola recently raised its rates for the first time in seven years, upping them to a base rate of \$18 for the first thousand gallons and \$9.85 per thousand gallons after that. Some of the money will help fund the city's new wastewater treatment plant.

"Nobody likes rate adjustments," Waller says. "But we've not heard many complaints. We've had a lot of conversations the last several years. The community understands we can't get out of meeting state regulations."



Wastewater operator Jared Keenan uses a Vactor 2100 jet/vac truck to clear a sewer line ahead of a road construction project.

Private partners

While the Water Pollution Control department tackles whatever work it can in-house, the heaviest part of the city's ongoing and planned infrastructure work will be bid out. Waller, who has worked in the industry for 20 years, says contracting out some services ensures that vital infrastructure is in the best shape possible.

"We do projects in-house when we have the equipment to do it," he says. "Our team does a great job televising and cleaning lines and replacing manholes."

Crews rely on a pair of camera systems for in-house inspections, a CUES push-camera system and an Envirosight Rover X sewer inspection crawler.



Rick Graves looks over the site where a crew is installing a new line to connect the new and old wastewater treatment plants.

TACKLING TREATMENT CAPACITY

In addition to inflow and infiltration, Indianola was facing aging wastewater treatment plant problems a decade ago. The challenges were interrelated, of course, with the extra water flowing into the lines additionally stressing a plant built in the 1970s. Today, both problems are much closer to resolution.

When the Iowa Department of Natural Resources came down on the city in 2009, planning by the city already had begun on a new treatment plant. Years of planning had convinced city officials that upgrading the old plant was not the best option. Six years of working with a consultant led to DNR approval of a state of the art \$46.5 million facility that will meet Indianola's anticipated growth but also is easily expandable, satisfies Iowa's nutrient reduction strategy, and incorporates new technology that shaves \$12 million from the cost of a conventional treatment plant.

Furthermore, some of the cost is being deflected from taxpayers by drawing upon a new local sales tax, all the revenue from which will go to helping fund the plant. Indianola is home to several regional facilities, such as the Des Moines Metro Opera, and annually hosts the National Balloon Classic. All those visitors boost sales tax collection, and the plant will be a beneficiary.

The plant is being constructed on 20 acres of a 360-acre city-owned property, with the other 340 acres being kept agricultural. That's pertinent, because treated wastewater will be pumped through an "umbilical cord" system attached to a fertilizer rig on a tractor, which will knife the treated effluent directly into the soil.

"That reduces the hauling cost and lessens truck traffic in the neighborhood," City Manager Ryan Waller says. Operation of the new plant will be overseen by Rick Graves, department superintendent. This is not a new assignment for him. He helped design and start up a new wastewater plant while working in another city.

"I like to think we are above average among Iowa wastewater systems," Waller says. "A lot of it has to do with the aggressive nature the community had in addressing the I&I situation, in deciding to build the state of the art wastewater facility, and how we are leveraging sales tax to help fund the new plant. With our growth, the upgraded infrastructure, a new treatment plant and affordable sewer rates, we're in a really good place."

It is all coming together so well that the city decided to give the new facility and department a new name. When the plant is complete, gone will be "Water Pollution Control." In its stead will be "Water Resource Recovery Facility."

"The community understands we can't get out of meeting state regulations."

Ryan Waller

"We do 50,000 feet a year of camera work," Graves says. "Everyone works at it in rotating shifts, with four operators working in the collections system and another person in the lab."

The department has also budgeted for the upcoming purchase of a Bobcat Toolcat, which will carry the Envirosight system — along with a Honda generator — to less accessible sewer mains. When it comes to cleaning, crews get the job done with a Vactor 2100 jet/vac rig.

"Sometimes, though, we bid out those jobs, too," Waller says. "Smoke services is one of the services we typically partner with the private sector to get done."

Larger projects are prioritized and competitively bid, sometimes even spot repairs. In the last round of bids, a trio of Iowa companies won contracts.

Continued investment

While the city has made great progress, the remaining I&I issues are not negligible. Graves estimates that as much as a million gallons of rainwater still infiltrate the city's sewer system on a rainy day. "Here's an example of that. We had about an inch of rain on Nov. 10 of last year and our flows jumped up 700,000 gallons a day for two days and then went right back to normal. An extra 1.4 million gallons of flow — I call it a spike event."

The city is budgeting \$250,000 per year for inflow and infiltration corrective work in an effort to reduce that big number to something more incidental. In 2020, that funded lining of 2,300 feet of pipe in 10 sewer main sections and 50 laterals. In addition, 10 manholes were repaired.

That level of investment in the system will continue for the foreseeable future along with \$30,000 a year for replacement of lift station pumps. The type of projects varies from year to year. For example, the current contract calls for additional manhole makeovers, less than a thousand feet of sanitary sewer lining and about 350 feet of storm sewer repair.

Wastewater operator Ty Herrick steers an Envirosight camera crawler through a sewer line during an inspection.



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“Anything related to municipal work and infrastructure — the work is never done.”

Ryan Waller

A good place

Luckily, the city has the right team in place. Graves came to Indianola after a dozen years of serving as superintendent for two other Iowa sewer systems and is licensed for a variety of wastewater treatment and distribution tasks. “He’s the expert,” Waller says. As such, Graves is well qualified to oversee cross-training of his crew. Cleaning pipe. Repairing pumps. Running the cameras.

The result is a sewer system that, despite ongoing repair and rehabilitation work, is in a pretty good place, Graves says.

Waller concurs. “I was just talking to staff about

that. Anything related to municipal work and infrastructure — the work is never done. You say, for example, we have all the streets paved, so the end is in sight, but that’s not possible. Yes, we have more I&I work to do and the storm sewers need a little more TLC, but they’re not in bad shape. We’re sitting pretty nice. We’re good.” ♦

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**Wastewater operators
Jared Keenan (left) and
Norman Hart launch the
CCTV camera during a
routine sewer inspection.**



METHOD:

Trip generation rates

APPLICATION:

Developed a hybrid model of assessing fees that is an innovative and equitable solution that benefits communities

BENEFITS:

New approach to stormwater funding

USER:

Fort Lauderdale, Florida



INNOVATIVE STORMWATER FUNDING

Trip generation rates offer a unique solution to fund stormwater improvements

By Kyle Stevens

Climate change is a pressing issue for local governments. Sea level rise and the unpredictable nature of storm events have put a strain on already aging stormwater infrastructure, requiring huge investments to address the problem.

Paying for these investments should not rely upon methods of the past. Addressing the problems climate change has caused requires a new approach to stormwater funding. Using data like trip generation rates to develop a hybrid model of assessing fees is an innovative and equitable solution that benefits communities.

Stormwater fees

Typically, stormwater fees are part of your monthly utility bill or yearly property tax assessments and are determined by impervious area — the footprint of your property that cannot absorb water. In these areas, the

natural infiltration of stormwater into the ground is blocked, which results in higher stormwater runoff that must be managed by the municipal stormwater system. A larger structure or more pavement on a property usually leads to a higher fee. While that may seem like a fair method of calculating fees, every city is different. Vertical development and high population densities have challenged the usual model of fee collection, exposing proportional benefit gaps among property types and usage.

Vertical development and high population densities have challenged the usual model of fee collection.

In Fort Lauderdale, Florida, for example, stormwater issues have primarily affected roadways, forcing the city to focus its efforts on keeping roads clear and passable while enhancing the quality of stormwater through street sweeping. What's more, its fee structure did not accurately reflect benefits to residents of usable streets from stormwater infrastructure. This meant much of the cost burden fell on a smaller fraction of the

city's residents, while the benefits are accrued more broadly. Working with city officials, our team found that a hybrid model using a trip-generation rate component for stormwater fees would better reflect the estimate of a given plot's roadway use, creating a more equitable system.

Trip generation

The Institute of Transportation Engineers creates trip generation rates from extensive survey data. Simply put, they estimate the average number of daily trips a parcel generates. A single-family home averages about nine trips per day, while a gas station averages 845 trips per thousand square feet of store. Commercial properties generate trips due to the high economic activity that takes place on the land. This, in turn, leads to a greater benefit from clear and passable roads than a similar-size plot that generates fewer trips. Additionally, trip generation rates are measured in one of two units: either the building square footage or the number of trip demand units (dwelling units).

Those two measurements consider a parcel's whole development, including the vertical built environment. This change is a significant contrast to traditional measurements that only considered impervious area, which is basically a 2D variable.

For example, the impervious area of two plots can be identical, but one is a single-story building with 15 residential units and the other is a multi-story building with 300 residential units. Looking

Engagement is essential for helping residents understand that they are part of a larger community.

only at the measured impervious area, one could conclude that the two plots benefit the same from stormwater services, but that isn't necessarily true. The plot with more residential units generates more trips and receives more benefit in total than the plot with a lower use of the roadway network — the primary place where stormwater activities occur.



In Fort Lauderdale, Florida, stormwater issues have primarily affected roadways, forcing the city to focus its efforts on keeping roads clear and passable while enhancing the quality of stormwater through street sweeping.

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Fort Lauderdale's hybrid model of using a trip-generation rate component for stormwater fees better reflects the estimate of a given plot's roadway use, creating a more equitable system.

When you consider the steps that the city takes to address stormwater issues to maintain a free and passable roadway, it is evident the parcels benefit far differently. By expanding our thinking to consider how the roadway network is being used, we can create a fee schedule that better reflects the benefits of stormwater activities and provides a more fair and equitable plan.

Community engagement

Perhaps the most critical element to applying an innovative fee structure is community support. People are naturally resistant to change, especially when it involves increased costs.

Engagement is essential for helping residents understand that they are part of a larger community. Helping the residents grasp how their community's systems are linked can reduce the resistance to fee increases that support quality of life services.

In Fort Lauderdale, our team participated in nine public meetings. Part of our strategy was to find community champions that could convince their neighbors the changes were needed. Since the fee increase affected high-rise residences and commercial properties more, we scheduled special meetings to discuss the increased benefits of stormwater management to them.

A cookie-cutter approach to stormwater funding will not work for most communities.

Unique solutions

A cookie-cutter approach to stormwater funding will not work for most communities. Each has its own unique traits and needs. Thus, solutions must address local challenges. While trip generation rates made sense for Fort Lauderdale, they may not work for another city. For example, in the city of Venice on the opposite coast of Florida, red tide events and algae blooms can cause infrastructure issues. In that case, our team suggested a water quality element to the city's fees meant to help reduce the impact of stormwater pollution on local waterways. The water quality of the discharge can be measured and fees assessed accordingly to provide a unique equitable solution for this community.

There are many other combinations of solutions available to produce a fair and equitable fee structure. By working with stakeholders to understand the community's problems, we can align the solutions available to make sure the fee reflects the area needs. ♦

Commercial properties generate more trips due to the high economic activity that takes place on the land. This, in turn, leads to a greater benefit from clear and passable roads than a similar-size plot that generates fewer trips.



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A focus on hiring veterans could help ease the industry's skilled-labor shortage

By Ken Wysocky

Jose Martinez firmly believes that military veterans are great candidates for jobs in the water and sewer industries, which sometimes struggle to attract employees. And the general manager of the Otay Water District should know — he's a United States Navy veteran himself.

Granted, Martinez had an easier path than many veterans when he transitioned from the Navy into the water and sewer industry. After leaving the Navy, he worked as a consultant and project manager for power and water utilities for five years before the OWD — based in Spring Valley, less than 10 miles east of downtown San Diego — hired him.

Nonetheless, Martinez realizes that obstacles exist to what otherwise should be a perfect marriage

between well-qualified veterans with high-level, skilled-trade experience and an industry facing a shortfall of skilled laborers, especially as baby boomers prepare to retire in the coming years.

After all, a machinist that can fix a broken pump while cruising underwater on a nuclear submarine can surely apply those same skills at utilities.

"This is a big passion of mine,"

says Martinez, who serves as the vice chairman of the California-Nevada Section of the American Water Works Association's Veterans Engagement and Transition committee. He also works on veterans' issues with other like-minded personnel at the 24 regional water agencies that belong to the San Diego County Water Authority, one of the primary agencies from which OWD buys water.

The OWD provides water, recycled water and sewer service to a population of about 226,000 people in a 125-square-mile area. It

owns and operates about 723 miles of potable waterlines, 104 miles of recycled waterlines and 84 miles of sewer lines.

Large labor pool

Military veterans represent a huge labor pool. By some estimates, 30,000 veterans leave the military each year in just California alone. And most of them prefer to stay in the state, which means there's an available labor pool that would be the envy of many employers, says Martinez.

Furthermore, veterans typically have the aptitude and mindset to be great utility employees.

"It sounds corny, but the military culture centers on discipline and accomplishing a mission — figuring out how to get things done," he notes. "In addition, employees at utilities serve the public, doing something that's bigger than themselves — making sure the water supply is safe, reliable and cost effective. And this is a culture to which veterans, with their can-do attitudes, can relate."

The OWD employs roughly 140 people, including nine veterans. While the district certainly would like to hire more, utility agencies tend to have lower turnover rates, which limits hiring opportunities. However, Martinez points out that's expected to change with the coming wave of retirements.

Furthermore, until very recently, there hasn't been a clear career path for veterans to join the water and wastewater industries without starting at the bottom, then earning certification, even though they have experience that's equivalent to a more advanced certification.



Jose Martinez

"If you use water industry terminology, veterans are likely to feel they're unqualified."

Jose Martinez

“We have to get hiring managers more comfortable with and understand exactly what those military qualifications really mean.”

Jose Martinez

In addition, the industry only started focusing more heavily on the veteran employment issue a few years ago. And to use a Navy metaphor, it takes a while to turn around an aircraft carrier.

Martinez speaks from experience. He graduated from the U.S. Naval Academy in Annapolis, Maryland, in 2001 with a degree in mechanical engineering. After serving on a Los Angeles-class, fast-attack nuclear submarine, Martinez left the Navy in 2007.

The OWD hired him as a utility services manager in 2012, then promoted him to assistant chief of water operations. He became general manager in early 2020.

New connections

So why is there such a disconnect between veterans with skilled-trade experience and water and sewer utilities that need them? Martinez says that it's a multipronged issue.

For starters, there's a language barrier, so to speak. Too many human resources departments at utilities look at veterans' resumes and don't understand that their job skills, often spelled out in hard-to-decipher military jargon, are well suited for jobs at utilities.

“Too many hiring managers think they need employees with specific [water sector] experience,” he says. “So when I talk to them about hiring, say, an Air Force water and fuel systems specialist, they say no — even though there are strong similarities between that job and a position like a utility maintenance worker responsible for the installation and maintenance of water and wastewater distribution systems.”

By the same token, many veterans simply aren't aware of the solid career opportunities that exist at water and sewer utilities. “We need to educate them more, get them excited about these great careers,” Martinez says.

Another obstacle is the job certifications required to be, say, a water plant operator, for example. Some veterans might be highly qualified for such positions. But without the required certifications, they're forced to start at lower-paying, entry-level positions for which they're overqualified.

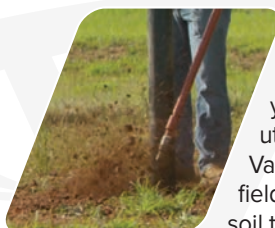
Unfortunately, that can be a disappointing non-starter for many vets.

“An experienced petty officer might be eligible for a job that pays \$70,000 or \$80,000 a year at a power utility but starts out at ground zero in the water industry,” Martinez explains. “It's a shame.”



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“There’s no doubt it’s a tough problem with no easy solutions.”

Jose Martinez

Establish best practices

To better connect with veterans, Martinez says the OWD is focused on implementing best hiring practices to make it easier for veterans to find jobs.

For example, the district now is more intentional about where it posts job advertisements. Military-oriented Facebook groups and other social media offer good examples of oft-overlooked fertile ground, Martinez says.

Furthermore, utilities need to carefully craft job descriptions in those advertisements so that veterans can easily see how their skillsets match up.

“They need to use language that’s more general — that talks more toward veterans’ skill sets than just a position title,” he says. “If you use water industry terminology, veterans are likely to feel they’re unqualified.”

At OWD, job applications include a box that candidates can check if they served in the military. If the box is checked, human resources personnel know they need to assess and scrutinize the application more carefully to be sure they’re not overlooking a qualified candidate. Sometimes another veteran will assist with the review.

“We have to get hiring managers more comfortable with and understand exactly what those military qualifications really mean,” Martinez adds. “Human resources is a critical component in this process.”

The agency also taps into programs such as SkillBridge, a U.S. Department of Defense program that allows military personnel to work at internships during the last six months of their service.

“A couple agencies in our region just brought on board a couple of veterans as interns in the instrumentation field and the feedback after a few months was, ‘Wow, these people are amazing,’” Martinez says.

No quick fix

In 2019, Martinez and leaders at San Diego County also spearheaded the passage of a California bill that allows any education and experience earned during military service to count toward state certification requirements for jobs such as water and wastewater operator.

“So if they have, say, 20 years of experience and can check off a certain number of boxes, they can apply for these higher-level jobs instead of being forced to start at the bottom,” Martinez explains. “That was a huge development.”

Looking ahead, Martinez urges utilities nationwide to get their human resources departments to make water industry careers more accessible to veterans. Many of the best practices they can implement, such as translating job descriptions into more understandable language, don’t require a lot of time and effort.

“There’s no doubt it’s a tough problem with no easy solutions, but as long as we’re mindful and intentional about it in the long term, these best practices can make a big difference in solving the nationwide shortage of skilled labor — provide water and sewer utilities with the technical and administrative skills they need,” he says. ♦

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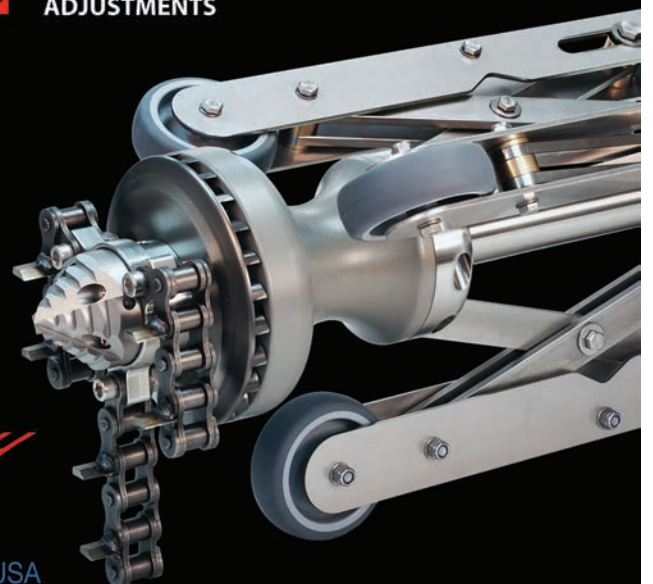
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OPEN TO WHAT WORKS

The York County Public Works Utilities team includes (from left) Ronald German, Tim Warthan, James Williams, Charles Meredith, Erik Kister, Curtis Carr, Brennon Grover and Mason Hionec. (Photography by Kevin Blackburn)



Coastal utility finds sustainable sanitary collections solutions by incorporating different systems and approaches

By Suzan Chin-Taylor

Neither gravity nor vacuum can solve every sewer problem. In York County, Virginia, they play an equal role in providing safe collections for the community and protecting one of the country's most sensitive and important watersheds.

utilizing a combination of gravity and vacuum sewer systems in conjunction with grinder pumps. Specialized departments have been the key to keeping all the diverse elements of this unique collections system performing optimally.

“York County was in very good shape because our systems are, in the grand scheme of things, young.”

Tim Warthan

Situated on the beautiful coastline of Chesapeake Bay, York County has found ways to migrate off septic systems, combat inflow and infiltration and deal with high water tables by

York County is an older community, established originally in 1781. Its sanitary collections systems are relatively new to the region, however, with the oldest



PROFILE:

York County Public Works Utilities,
York County, Virginia

YEAR COUNTY FOUNDED:
1781

COLLECTIONS SYSTEM SIZE:
82 miles of vacuum sewer with 675 vacuum pots; 245 miles of gravity sewer with 15 miles of high-pressure mains and 15 miles of low-pressure force main; 76 lift stations

CUSTOMERS SERVED:
75,000 with 26,000 sewer connections

NUMBER OF EMPLOYEES:
170

ANNUAL BUDGET:
\$50 Million

WEBSITE:
www.yorkcounty.gov/1934/Utilities

“The biggest advantage to having an ongoing flow monitoring program is the ability to quickly identify infiltration.”

Tim Warthan

public sewer segments being installed in the 1950s. The county's topography and size are unusual in that it is 40 miles long but only 3 miles wide, divided into two sections by U.S. Navy bases.

Situated along the multipeninsular coastline of the Chesapeake Bay, it serves a population of 75,000 with 26,000 sewer connections. Between the upper and lower sections, York County has 82 miles of vacuum sewer with 1,675 vacuum pots, 245 miles of gravity sewer with 15 miles of high-pressure mains and 15 miles of low-pressure force main, 25 lift stations, along with 45 pump stations, 9 vacuum stations and around 285 grinder pumps.

York County's first comprehensive plan was adopted in 1991 and is updated approximately every five years. The comprehensive plan among many things sets a planned course for land use and allowable housing densities, which guides development. The County also initiated a Utilities Strategic Capital Plan for extending sanitary sewer and water to existing developed neighborhoods. The goal of that plan was to replace the private onsite septic systems with public sanitary sewer, and connect properties with private wells to the public water system. Those neighborhoods that were developed on the tributaries of the Chesapeake Bay were top priority.

Since the upper and lower collections systems incorporate both gravity and vacuum and are so diverse, the county utility operations has five sections to deal with the ongoing maintenance, monitoring and rehabilitation of the systems: preventive maintenance, construction, pump stations, vacuum and grinder pumps/force mains.

A critical shift

In conjunction with the Chesapeake Bay Act, in the 1980s, York County began extensive research on how to get residents who were on septic systems converted over to public sewer. Because many of these residents and onsite systems were located right on the tributaries of the bay, there were significant environmental concerns regarding the private septic systems leeching into the waters of the bay. Michael Elam, P.E., project engineer in the early 1990s, presented vacuum sewers as a viable solution since installation of gravity sewers in areas with high water tables was not financially feasible. At the time, this was a relatively new technology for sanitary collections systems, so the county visited a neighboring jurisdiction also situated on the bay that



Top: Charles Meredith rebuilds a residential check valve for a vacuum system pit.

Right: A monitoring system sits outside the manhole for a residential service check valve. Each pit serves up to four homes.

had installed a vacuum system in 1972 and was experiencing positive results.

York County decided to move forward with its first vacuum system in the mid-1990s. Nine different areas of the county are now served by vacuum.

Better monitoring

The Hampton Roads Sanitation District handles the sanitary sewer treatment for the Hampton Roads area, which is comprised of nine cities, four counties (including York) and one town. In 2007, the district was placed under an Order by Consent to eliminate all sanitary sewer overflows.

“York County was in very good shape because our systems are, in the grand scheme of things, young,” shares Tim Warthan, York County's superintendent of utilities.

The County established an extraordinarily strong program of CIP projects, including lining of gravity lines, manhole inspections and rehabilitation, and pump station rehabilitation. It also developed a continuous PM program along with smoke testing to help identify inflow and infiltration sources. In addition to its CIP and PM programs, HRSD also came up with a program, Smart Water Initiative For Tomorrow.

“Instead of discharging treated effluent water into the tributaries of the Chesapeake Bay, HRSD is now injecting a portion of the treated wastewater back into the groundwater, which over time should help the local environment tremendously,” Warthan says. York County also monitors flow rates before and after each rehabilitation proj-



ect to accurately determine the impact on inflow and infiltration.

The Order by Consent made York County and its neighboring localities learn more about their sanitary sewer collections systems throughout the process. York's collections system is maintained at a higher level now through education,

“It’s important that we educate our community about the cost of treating water.”

Tim Warthan

NASSCO certification training, knowledge and flow monitoring using an FMS (Flovac Monitoring System) telemetry system. Each vacuum interface valve or connection has a magnet located inside of the top section of the valve body. The telemetry system works by attaching a special sensor to the valve body to detect the movement of this magnet. It detects each time the valve opens and closes, as well as how long each valve stays open.

The valves have a typical average number of firings during normal conditions so the volume of flow can be calculated based on the number of activations. When a higher than normal volume of water enters the sump, the valve will take in a larger quantity of fluid during that one cycle and be outside normal tolerances and an alert will be sent to the crews to take appropriate action. The data is captured in real-time and this enables quick response.

“The biggest advantage to having an

ongoing flow monitoring program is the ability to quickly identify infiltration,” Warthan says. “When you’re able to identify infiltration, you cut your run times at your stations, which leads to saving energy and in turn saves money, and our system simply runs better. Plus, we’ve experienced a significant reduction in our work orders or service requests.”

Keeping it running

York County has dedicated, multifaceted teams to maintain its gravity and vacuum systems. Within a gravity system each of the sections and associated lift stations can vary widely, so the teams must learn about the personality of each asset. With its vacuum stations, components are pretty much the same. Although vacuum stations are similar to gravity stations in that they perform a similar function, vacuum stations have twice the amount of equipment to be maintained and monitored so different skills sets are required.

To help its vacuum team, York County has incorporated an elaborate control system for its stations with most of its pumps being controlled and run on variable frequency drives. But even with all this great monitoring technology, control systems and a highly skilled crew, York County’s biggest challenge is often out of its control — Mother Nature.

The Chesapeake Bay region is susceptible to violent weather events caused by nor’easters that can create more system maintenance problems than a hurricane. Because of this, York has established storm preparedness protocols



Top: James Williams checks nightly readings and current system status at one of the vacuum stations.

Middle: Charles Meredith points out the remote monitoring system that is keeping tabs on the vacuum station. These remote sensors monitor the residential system as well as vacuum stations.

Bottom: Curtis Carr records the daily vacuum levels at the oldest vacuum center. This location is not yet on the remote monitoring system but is the starting point for diagnosis when there’s a problem call for this service area.

COLLABORATION FOR THE GREATER GOOD

Being among a group of 17 municipalities that rely on the Hampton Roads Sanitation District for wastewater treatment, York County, Virginia, has ample networking opportunities at the group’s regular meetings.

“One of the best ways we’ve been able to get introduced to new technologies and sample new technologies is through our connections with our fellow neighbors at these gatherings,” shares Tim Warthan, superintendent of utilities for York County.

WaterJams and information gathered at trade shows by its engineering staff have also helped York County and its neighbors collectively. Not wanting to be the test subject for new technology but open to innovation,

Warthan and his team are excited about all the new technology that is coming to the forefront of the industry. Knowledge gathered through networking in addition to their own internal data helps York County make educated decisions about new technologies to improve systems and productivity.

“Years ago, when we were speaking to our peers at one of these events no one knew what a data collection or SCADA system was but now we couldn’t do our jobs as well without it,” Warthan says. “As technology evolves you need to evolve with it. New processes may change the way you maintain something, and you have to be open to hearing new ideas and learning every day. Open dialogue and exchange not only within your own teams but also with your peers, it helps us all grow together.”



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and does its best to prepare many of the low-lying areas served by its vacuum system from becoming waterlogged.

"Recovering a vacuum system that has been overcome with water from a storm can be very costly," Warthan says. "Our vacuum team has done an excellent job of mitigating these instances and finding effective ways to work through them."

Driven by data

With its telemetry monitoring system, SCADA, ESRI ArcView GIS and Infor asset management system, York can collect extensive data on the health and performance of its systems and operations. This data leads the way in creating programs for ongoing maintenance and expansion of their systems should development require it.

"Just because things were done in certain ways in the past, it's important to recognize that new developments will occur and that the way we've been addressing things before may not have been the best way to do things," says Charles Meredith, a vacuum mechanic with York County Utilities. "When new information does point this out it's OK to sit back, listen and assess because by doing so, we've learned some new things that have really been helpful in our everyday work."

Sharing this data and information with the community has become increasingly more important so that the residents become partners with the county utility teams in ensuring the health of the

sewer systems and the surrounding environment.

"It's important that we educate our community about the cost of treating water and understand that it costs more to treat water once you've used it than it does to buy it, and what it takes to perform the work we do. I often like to share one of my favorite quotes from Gandhi when I speak at community events, 'Sanitation is more important than independence,' to emphasize its importance," Warthan says.

Lasting legacy

Recognizing the need to create a sustainable collections system, the migration away from septic and openness to utilizing multiple methods has set York County up for the long run.

"We need to thank the people who were here before us who had the forethought to put the plan in place for getting septic tanks converted to collections systems so they could no longer impact the bay. They created amazing projects that have lasted for almost 50 years. Our director, Brian Woodward, has had a big hand in that,



All members of the vacuum team have access to the monitoring app and can quickly determine exact locations when a problem arises.

and thanks to that forethought we now have a small, manageable number of septic tanks left," Warthan says.

With an arsenal of gravity, vacuum or low-pressure grinding pumps, York will continue slowly chipping away to create a legacy system for its community.

"The business that we choose for our life's work sometimes chooses us," Warthan says. "Sometimes it's challenging because it's an unseen entity, but we understand that what we do is for the environment, for our fellow human beings, the betterment of our community, our country as a whole and the environment." ♦

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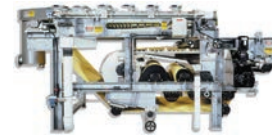
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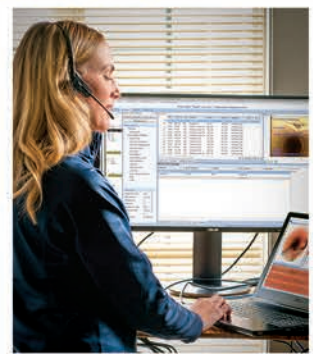
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TOOLBOX TALKS FOR TRENCH SAFETY

Help increase worker understanding on trench hazards and safe work practices.

It's easy to cut corners while excavating or working in trenches, but it's hard to bring a life back.

United Rentals has more than 92 trench safety locations and the largest fleet of shoring and underground excavation rental equipment in North America. The company knows trench safety, and it has compiled some toolbox talk topics to help increase worker knowledge about trench hazards and safe work practices in trenching and excavation operations.

Choosing the right topics for toolbox talks — informal, topic-specific, short-format meetings to convey important safety messages — will bolster trench safety understanding among your crew.

“Safety is our No. 1 priority at United Rentals,” says Todd Hayes, Trench Safety regional vice president. “We engage our customers to help mitigate risk and improve production on underground construction projects by providing education and training about regulations, along with a partnership on shoring

solutions. By dedicating time to a safety program that includes job site toolbox talks, companies provide an out of the classroom overview of the regulations, as well as a review of the hazards, and a plan to protect every employee from those hazards so they can work safely in and around trenches and excavations.”

Choosing the right topics for toolbox talks — informal, topic-specific, short-format meetings to convey important safety messages — will bolster trench safety understanding among your crew. Here are a few ideas to get the ball rolling and help keep safety top of mind with workers.

Protecting Installations. Existing utilities are everywhere, and hitting them while digging is extremely hazardous. Scratching the coating on a gas pipeline can cause line failure. Hitting fiber optic lines can cause severe disruption to every industry. Damage prevention is key. Make sure to call a locate service through 811, which is the national call-before-you-dig phone number.

Even if the project is on private property where the property owner does not own the utility, and even if it is in a submerged setting like a swamp or a lake. Know the state law regarding how much time to give to owners to respond, and a locate service will come out and mark the approximate location of those utilities. Even when the lines have been marked, use care when digging around any utility so as to not disturb or damage the line. Fines for digging without having called for

By dedicating time to a safety program that includes job site toolbox talks, utilities can provide an out-of-the-classroom overview of the regulations, as well as a review of the hazards, to help keep workers safe.





Most understand the potential hazards of performing sewer work, but if there are unique gases in an environment, like those from a refinery or chemical plant, ensure that monitors are configured to test for them.

the appropriate locates are significant even if nothing is hit. Know the law and refer to OSHA Standard 1926 Subpart P — call before digging.

Provide Proper Access and Egress. In every trench of 4 or more feet in depth, a ramp, ladder or other safe means of access and egress must be in place any time employees are in a trench. An employee must be able to exit a trench safely at any time without depending on assistance from someone else to get out. In a trench excavation, point of egress must be within 25 feet of every worker, according to OSHA Standard 1926 Subpart P. If an earthen ramp is the access/egress choice, the employee must not be exposed to a potential cave-in and the earthen ramp must allow for the employee to enter and exit in a normal, upright orientation. Likewise, if a ladder is the choice, the employee must be able to access the ladder without being put at risk of a cave-in.

Test for Hazardous Atmospheres. Trenches and excavations are not automatically considered confined spaces, according to OSHA Trench and Excavation Safety. In every trench or excavation that is 4 or more feet in depth, where there is a potential for a hazardous atmosphere to exist, then that atmosphere must be tested. The tests would include oxygen deficiency or enrichment and testing the atmosphere for flammable gas concentrations that would be in excess of 20% of the lower flammable

In every trench of 4 or more feet in depth, a ramp, ladder or other safe means of access and egress must be in place any time employees are in a trench.



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Before beginning work or when hazards become known, a competent person should inspect the protective system and adjacent area, and test to ensure no hazardous conditions exist.

trench is 6 feet or more, then a walkway with guardrails 42 inches high (+/- 3 inches), midrails at least 21 inches high, and meeting the other specific requirements in OSHA Fall Protection found in 1926.502(b) must be used. Also, if the trench is not readily visible due to any visual barrier, then fall protection must be provided and must meet the requirements found in OSHA 1926.502. Refer to OSHA Standard 1926 Subparts P and M for more information. ♦

limit of the gas. Where those situations are found, adequate ventilation is required to reduce the atmospheric contaminants to an acceptable level, and testing shall continue as needed to ensure the atmosphere remains safe. Also, emergency rescue equipment (davit arms, basket stretchers, harnesses) shall be readily available where hazardous atmospheres exist, or could develop, during the work. Most would think it reasonable to find a potential for hazardous atmospheres while performing sewer work. If there are unique gases in an environment, like a refinery or chemical plant, ensure that monitors are configured to test for those gases.

Performing Inspections. Before the beginning of work, or during work after a hazard-increasing event takes place, the competent person shall perform an inspection of the protective system and the adjacent area and test the atmosphere to ensure no hazardous conditions exist. Where hazards are found, the competent person shall ensure that corrective measures are taken to eliminate the hazards prior to the restart of the work. What could be a hazard-increasing event? It could be the addition of a significant surcharge, movement of a protective system, a rainstorm, a nearby gas leak or a breach of a sewer line, just to name a few. Refer to OSHA Standard 1926 Subpart P for more details.

Providing Fall Protection. When an employee is permitted or allowed to cross over a trench, and the depth of the



In every trench of 4 or more feet in depth, a ramp, ladder or other safe means of access and egress must be in place. An employee must be able to exit a trench safely at any time without depending on assistance from someone else to get out.

Grundfos and Baseform formalize strategic partnership

Grundfos and Baseform have formalized a strategic partnership to bring digital services to water utilities worldwide. Grundfos Utility Analytics, an AI, machine-learning utility management technology provided by Baseform, allows utilities to better plan their network renewal investments, actively manage water losses or infiltration and inflow, and optimize their energy usage while enhancing operational efficiency and effectiveness. The analytics offer will be served in a software as a service (SaaS) base to utilities, allowing an unlimited number of users and connecting to an unlimited number of data sources in the utility.

Barbco's Barbera inducted into NASTT Hall of Fame

On March 30, Barbco founder James Barbera was posthumously inducted in the North American Society for Trenchless Technology Hall of Fame at the annual No-Dig Show in Orlando, Florida. Barbera was presented for induction by his wife, Frances, and their sons Anthony, David and James.

The NASTT Hall of Fame honors members who have made outstanding accomplishments and exceptional contributions to the advance of the North American trenchless industry and NASTT. Winners of the accolade are former or current NASTT members who have been members for a minimum of 10 years and are age 50 or older.

CUWA names Broley as new executive director

California Urban Water Agencies named Brown and Caldwell's Wendy Broley as its new executive director effective July 1, replacing Cindy Paulson after 10 years in the role. CUWA is a nonprofit corporation of 11 major urban water agencies responsible for serving drinking water to over two-thirds of California's population.

Kurita Water Industries acquires Keytech Water Management

Kurita Water Industries completed its acquisition of Keytech Water Management through its North American subsidiaries in a stock purchase deal. Keytech, which is headquartered in Kitchener, Ontario, will operate as a 100% consolidated subsidiary of Kurita Canada. Douglas Halbert, former president and general manager of Keytech, will continue to lead the organization as general manager, under the leadership of LaMarr Barnes, CEO of Kurita America.

Mueller Water Products acquires i2O Water

Mueller Water Products has acquired i2O Water for approximately \$20 million in cash. Founded in 2005, i2O Water is headquartered in Southampton, United Kingdom, with operations in Malaysia and Colombia. The company provides a range of intelligent water network solutions including advanced pressure management, network analytics, event management, data logging and the iNet software suite.

Perma-Liner expands portfolio to include RIDGID

Waterline Renewal Technologies, a portfolio company of Behrman Capital, announced Perma-Liner Industries as an official North American stocking distributor of RIDGID. New diagnostics and heavy-duty drain cleaning tools from RIDGID enhance the company's trenchless rehabilitation product offerings.

IPT welcomes Dennis Persaud as VP of operations

Internal Pipe Technologies appointed Dennis Persaud as vice president of operations. He will oversee the manufacturing operations at the IPT plant in Texas. With 13 years' experience in the CIPP lining industry, his last position was director of manufacturing, quality and compliance at Aquam Corp.

McElroy adds new distributor in Northeast

McElroy named F.W. Webb Co. as its newest distributor to serve pipe fusion machine customers along the East Coast. The company has several locations and its Springfield, Massachusetts, location will serve as the main hub for McElroy machine sales.

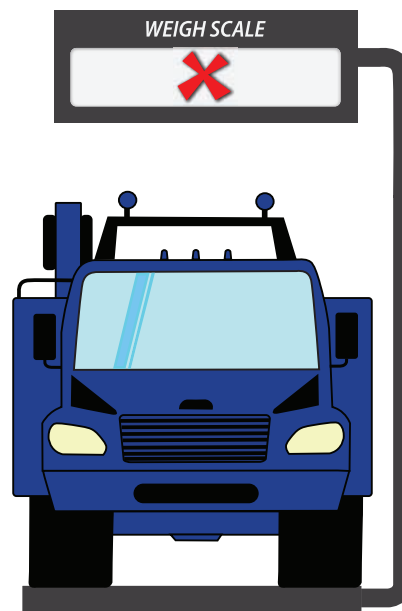
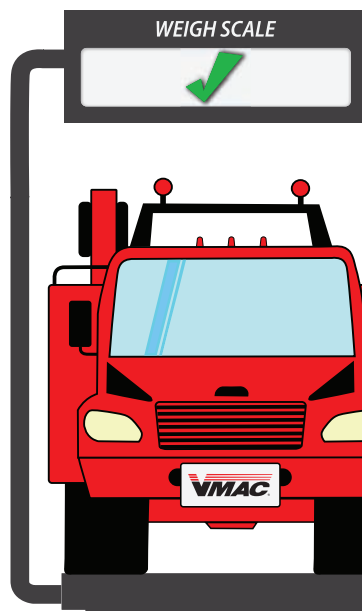
Felling Trailers acquires Larson Cable Trailers

Felling Trailers acquired the assets of Huron, South Dakota-based Larson Cable Trailers, a manufacturer of fiber optic cable handling trailer products. Felling Trailers has retained all Larson Cable Trailers' employees and will continue operations in Huron. Larson Cable Trailers will operate as Larson Cable Trailers, Inc., a separate division of Felling Trailers. With the acquisition, Felling named Larson's original owner and founder Rick Larson as product manager. ♦

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NEW TECHNOLOGY SLATED FOR WEFTEC 2021

By Craig Mandli

WEFTEC, the Water Environment Federation's annual Technical Exhibition and Conference, offers water and wastewater professionals from around the world exposure to the newest products, along with water-quality education and training. This year's event,

from Oct. 16 to 20 in Chicago, promises to show off some of the finest new products on the market for municipal and industrial water and wastewater professionals. Below is a preview of some of the newest products that will be highlighted at this year's show.

Aerzen Rental Temporary Oil-Free Blowers

Aerzen Rental provides temporary oil-free blower packages engineered for aggressive rental environments with onboard variable frequency drives, remote monitoring and outdoor builds with sound-attenuating enclosures. The rental units are available for immediate deployment in the event of a production failure or shortfall to longer-term operational leasing and rent to own. **844-400-2379; www.aerzenrentalusa.com; Booth 1062**



AllMax Software Operator10 wastewater

Operator10 wastewater software from **AllMax Software** is designed to address the issues that are most important in managing plant operations. It provides centralized storage for all wastewater operations data. Plants that record data from external labs, LIMS, SCADA, Historians and more need a place to house, organize, review, manipulate and report on their data. It includes multiple options to get data into the company's database, and tools to perform calculations, create charts and run reports. It can handle issues in a budget-friendly, straightforward and secure database solution. **800-670-1867; www.allmaxsoftware.com; Booth 2908**



Analytical Technology Entech EchoSmart

Entech EchoSmart sludge blanket monitors from Analytical Technology take the guesswork out of blanket measurements in clarifiers, thickeners and anywhere an underwater interface measurement is needed. Smart sensor technology allows for wireless networks with up to 16 sensors, reducing the per-tank price. In addition, the ability to remotely monitor the system via a cellular modem ensures support for even the most challenging processes. **800-959-0299; www.analyticaltechnology.com; Booth 3452**



AquaStorm Cloth Media Filtration System

The new **AquaStorm cloth media filtration system** is an effective solution for CSO, SSO and stormwater applications due to its removal efficiencies and high-quality effluent, even under varying influent conditions. The AquaStorm system utilizes a disk configuration with three zones of solids removal to effectively filter wet weather flows without the use of chemicals. The system is designed to handle a wide range of flows in a fraction of space compared to other treatment methods, and offers simple startup/shutdown with unattended operation for remote locations. The system's flexibility also allows for dual-use application for tertiary and wet weather operation. **815-654-2501; www.aquastormfiltration.com; Booth 4657**



BDP Industries 3DP Belt Press

The **3DP Belt Press** from **BDP Industries** is designed to provide high discharge cake solids at high flow rates. It has a 25-year track record of low operation and maintenance costs while providing suitable performance. It has been continually improved with the latest features and automation, and is a rugged, durable machine designed to provide years of reliable service. With its history of dewatering aggregates and minerals, as well as wastewater treatment plant solids, it is also especially suited for water treatment plant residual dewatering. **518-695-6851; www.bdpindustries.com; Booth 2402**



Blue-White FLEXFLO M1

Users can standardize one chemical feed solution with the **FLEXFLO M1** peristaltic chemical dosing pump from **Blue-White**. It is self-priming and delivers consistent, precise chemical dosing with no vapor lock or lost prime. SCADA inputs include 4-20mA. The pump achieves a 10,000:1 turndown ratio and feed output range of 0.0001-5.6 gph, with pressures to 100 psi. It has a high energy-efficiency rating and is powered by efficient BLDC motor technology. A sealed enclosure and a



display shield protect the pump's controls and display from chemical spills and splashes. It has CNC precision-machined rollers for optimum squeeze, accuracy and extended tube life. **714-893-8529; www.blue-white.com; Booth 3442**

Bright Technologies, Division of Sebright Products Inc., belt filter press

Bright Technologies, Division of Sebright Products Inc., offers belt filter presses that provide high performance in a compact, high-value package. Complete belt filter press dewatering systems are skid or trailer mounted. The company designs and manufactures the skid equipment package for high throughput, low maintenance, superior cake solids and ease of operation. **800-253-0532; www.brightbeltpress.com; Booth 4336**



Centrisys/CNP MagPrex

MagPrex is a digestate phosphorus-removal technology offered by **Centrisys/CNP**. It is for all-sized plants that have high soluble phosphorus concentrations, struvite accumulation and poor dewaterability as a cost-effective way to remove the soluble phosphorus. Installing between the anaerobic digester and the dewatering equipment, it converts the orthophosphate into struvite crystals and the system is configurable to either sequester or harvest the struvite. With five operating installations across the USA, it has demonstrated it will reduce soluble phosphorus by at least 90%, reduce maintenance costs up to 50% and reduce polymer consumption up to 30%. **262-747-2384; www.centrisys-cnp.com; Booth 3256**



Charter Machine Co. Elode Dryer

Charter Machine Co. is introducing a new way of increasing your cake solids dryness by use of electro-dewatering. The **Elode dryer** takes any dewatered cake and doubles the cake solids in under one minute by use of electrophoresis and electro-osmotic reactions that are generated from a DC field, according to the maker. No pressure, no chemicals, just a little electricity and your hauling costs are cut in half. The Elode dryer works well with cake solids in the 15-20% TS range to generate more than 40% TS cake. Stop by the Charter Machine booth for more info. **732-494-5350; www.chartermachine.com; Booth 1623**



Cla-Val Model XP2F

The **Cla-Val Model XP2F** is a flow-metering option available now for any Cla-Val control valve. It is a differential pressure-based solution and comes with pressure transmitters, a valve position transmitter and flow calculation module. It is IP 68 rated, with a 12-24V DC input, four analog inputs and four analog outputs with the ability to accept additional field instrumentation and retransmit measurements to PLC/SCADA via 4-20mA signals. **949-722-4800; www.cla-val.com; Booth 4621**



CUES QZ3 Advanced

CUES has developed an advanced model of its lightweight, portable, HD wireless video inspection pole camera, the **QZ3 Advanced**, which can be operated by one person using any tablet. It provides safe viewing in industrial or environmental areas with no-man entry. Users can



perform swift inspections and surveys of pipelines, manholes, tanks and other areas that are difficult to reach. It can also be used to locate lateral services or to identify blockages at manholes, access ports or other entry points without entering the line or structure. Added features over the basic model include motorized height and tilt, in addition to laser distance measurements. Many options are available to enhance the utility of the model. **800-327-7791; www.cuesinc.com; Booth 1605**

Emerald Coast Mfg. WAVE

The **WAVE** from **Emerald Coast Mfg.** is an all-climate heavy-duty vacuum wastewater sampler. The ABS/acrylic case provides superior weather protection. Its 7-inch color touch screen grants ease of programming and status viewing. This refrigerated sampler provides composite sampling with a high level of accuracy and the powerful vacuum system will lift nearly 30 feet. It is completely user friendly. Sample size can be programmed, and the system will automatically adjust to insure an accurate repeatable sample. **850-469-1142; www.emeraldcoastmfg.com; Booth 4257**



Envirosight sewer inspection vehicles

Getting the full picture underground requires rugged, versatile equipment. **Envirosight** has applied decades of operator experience to deliver trucks with the capabilities and amenities needed. It features the **ROVER X** inspection crawler platform, with options for lateral launch, push camera and zoom survey camera. It is available on many panel van and box truck options, with generator (gas or diesel), inverter or engine electric power. It comes with equipment washdown, safety beacons, site lighting, stainless work surfaces, climate control, overhead monitors, storage drawers and cabinetry, and washable surfaces. Options include cranes, sinks and winches. **866-936-8476; www.envirosight.com; Booth 2274**



Flomatic Valves Model 745 AIS Swing Check Valve

Flomatic's AIS-complaint Model 745 AIS Swing Check Valve is designed with a short disc travel distance, guaranteeing a fast valve closure for non-slam high performance. Constructed with a full flow area equal to nominal pipe diameter and a 45-degree valve-seat angle, accessories include a backflush device, position indicator and limit switch. Manufactured according to ANSI/AWWA C508 standards, it includes a Buna-N coated steel one-piece disc with an integral molded O-ring on the seating surface. Featuring NPT threaded and plugged side ports, it's suitable for easy installation of gauges or accessories. **800-833-2040; www.flomatic.com; Booth 4248**



Franklin Electric FPS NCX Series

Municipal infrastructure operators have a safe and reliable solution for wastewater transfer with the **NCX Series** of explosion-proof submersible non-clog pumps from FPS, a brand of **Franklin Electric**. The pumps are certified for use in Class I, Division I and Group C & D hazardous location requirements — making them suitable for applications such as lift stations; stormwater, flood and pollution control; and general fluid transfer. Available in single- and three-phase power options to accommodate flows up to 625 gpm, each unit is designed with a field-adjustable wear plate, dual silicon carbide mechanical seals, and chemical-resistant components. **866-271-2859; www.franklinengineered.com; Booth 2062**



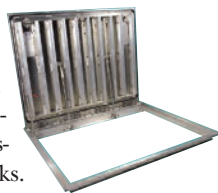
Gorman-Rupp EchoStorm

The **EchoStorm**, **Gorman-Rupp's** new static venturi aeration device, is designed to add dissolved oxygen into pumped liquids, adding oxygen to wastewater, reducing the size of organic solids and degassing organic solids. It is available in sizes from 2 to 6 inches, with flows from 50 to 1,300 gpm. It is a suitable solution for municipal, industrial, and agricultural applications, including wet well influent, aerobic sludge digestion, lagoons, oxidation ditches, fat, oil and grease digestion and landfill leachate. The device can be combined with a variety of Gorman-Rupp self-priming, centrifugal and priming assisted pumps. **419-755-1011; www.grpumps.com; Booth 2012**



Halliday Products Series F Flushmount Floodtight Covers

Series F Flushmount Floodtight Covers from **Halliday Products** are made from highly durable aluminum and stainless steel, and feature EDPM compression gaskets, spring assists and stainless steel cam locks. They are structurally designed to support a 25-foot column of water. **800-298-1027; www.hallidayproducts.com; Booth 648**



InfoSense SL-RAT

The **Sewer Line Rapid Assessment Tool, or SL-RAT** from **InfoSense** is a portable and easy-to-use technology that uses sound waves to assess blockage conditions in gravity sewer pipe. It serves as the first step in a collection system maintenance process — providing a fast, low-cost but low-resolution view of blockage conditions. An assessment is provided in three minutes or less, allowing a two-person crew to screen up to 10,000 feet per day at less than 1/10th the cost of cleaning or CCTV. It is portable, with no-flow contact, GPS enabled and EPA validated. **877-747-3245; www.infosense.com; Booth 7317**



JDV Equipment Nozzle Mix System

The dual-zone **Nozzle Mix System** from **JDV Equipment** provides uniform mixing patterns that produce even distribution and a stable environment. It optimizes solids suspension and contact to promote efficiency in a wide range of applications. The system is designed with pumps installed outside the tanks and are typically chopper pumps or pumps incorporating in-line grinders. The high-velocity nozzles mounted inside the tank completely mix the tank contents. Applications include anaerobic digestion, biosolids storage, blending tanks, excess flow tanks, septage or leachate, anoxic zones, combined sewer overflow handling, aerobic digestion, secondary treatment and biosolids holding ponds. **973-366-6556; www.jdvequipment.com; Booth 3844**



JWC Environmental Monster Stack

Since materials in the waste stream vary, grinders often need to address multiple challenges from the bottom to the top of the grinder. The **Monster Stack** from **JWC Environmental** addresses those specific challenges. No longer does the facility need to settle on a single cutter type. JWC uses individual cutters for its grinders, so you can mix and match different cutter types in the Monster Stack, and those changes can happen anywhere along the stack. Using the right cutter at the right location optimizes grinder performance and unit longevity. Wastewater debris varies. So should grinder cutters. **833-912-3331; www.jwce.com; Booth 2043**



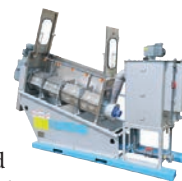
Keller America Econoline

The **Econoline** pressure transmitter from **Keller America** combines a media-isolated piezoresistive silicon sensor with signal conditioning electronics to provide a compact pressure transmitter with less than plus or minus 1% total error band accuracy over 0 to 50 degrees C. The industry standard 4-20mA analog output is compatible with most existing monitoring infrastructure and SCADA systems and provides meaningful output in ranges from 30 to 10,000 psi. The design makes it suitable for use under harsh environmental conditions, including those with high levels of electromagnetic radiation and/or those involving aggressive media where small size, low weight and reasonable cost are required. Modular production provides short lead times and maximum versatility for customer-specific applications. **877-253-5537; www.kelleramerica.com; Booth 8013**



Komline-Sanderson Multi-Wave Screw Press

Komline-Sanderson's Multi-Wave Screw Press is designed for high volume reduction and high hydraulic throughput at a low polymer dose. The design has low maintenance costs and long operational life even with highly corrosive sludges. As a combined thickener and dewatering device, polymer consumption is reduced by the progressive stabilization achieved through aggressive water removal in the thickening zone. The unit self-regulates to achieve the highest cake solids in one step. **800-225-5457; www.komline.com; Booth 1841**



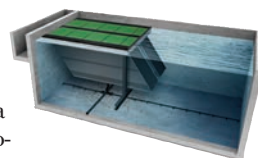
Lakeside Equipment Raptor FalconRake Bar Screen

Protecting downstream equipment in municipal and industrial applications, the **Raptor FalconRake Bar Screen** from **Lakeside Equipment** achieves high removal efficiency and low headloss — without the need for lower bearings, sprockets, bushings or guides that could foul or jam conditions in the channel. The all stainless steel, corrosion-resistant construction is designed with multiple rakes that continuously remove captured material. It is available in a wide range of bar shapes and depths, so that it can create an efficient, durable and dependable rapid debris removal system for a wide range of applications. In addition, its design and construction mean a low horsepower, energy-efficient drive system. **630-837-5640; www.lakeside-equipment.com; Booth 1826**



Leopold, a Xylem Brand Texler

The **Texler** lamella clarifier from **Leopold, a Xylem Brand** uses inclined lamellas designed to fit in rectangular clarification basins, providing a large settling area within a small footprint. It provides a large clarification area basin and the numerous lamella sheets, installed at a 55-degree angle, increase the water treatment capacity by up to 100% compared to conventional sedimentation systems. Solids settle without blocking the pathway of the water. The trough covers have an integrated V-notch weir design to ensure even flow distribution throughout the clarifier. In this process, solids are reduced by over 80%, resulting in turbidity levels below 1 NTU. **855-995-4261; www.xylem.com; Booth 1808**



Mueller i2O Data Logger

With **Mueller's** recent acquisition of i2O, the company now offers data loggers to cost-effectively monitor flow and pressure throughout water distribution networks. The data loggers are accurate, reliable and robust, with highly configurable data transmission and



a full set of alarm functions on all data channels. They offer a wide range of interval and dial-up configurations and can detect transients and monitor pressure-relief valve conditions. The i2O three-pressure logger can also be used as a controller, meaning there is a minimal upgrade path to advanced pressure management. **770-206-4200; www.muellerwaterproducts.com; Booth 2034**

Penn Valley Pumps Double Disc Pumps

The **Double Disc Pump** from **Penn Valley Pump** are based on a free-disc technology and operate on the principle of induced flow. This positive displacement pump's discs work in unison to perform the duties of both the pump and valve element, creating a double-acting, non-clogging pumping action. The pump handles sludge, slurry, scum and other waste liquids with up to 2-inch solids and is routinely used to feed a variety of dewatering devices. Thanks to a non-close tolerance design, it has less wear for longer operating life and can run dry without damage. When maintenance is required, the maintain-in-place system allows the pump to be serviced without disturbing piping. **215-343-8750; www.pennvalleypump.com; Booth 3323**



Sauereisen SewerGard Roll Applied 210XROL

Sauereisen SewerGard Roll Applied 210XROL is an epoxy lining system designed to protect concrete surfaces of municipal wastewater treatment structures and collection systems from chemical attack and physical abuse. Roll applied ensures ease of application on vertical surfaces, does not require a primer, zero

VOCs and prohibits water inflow and infiltration. It is resistant to corrosive conditions common to the municipal wastewater treatment industry and suitable for application over damp or dry concrete surfaces. Depending on surface temperatures and substrate conditions, it can be applied up to 25 mils per coat. **412-963-0303; www.sauereisen.com; Booth 1728**



Sealing Systems Flex-Seal 2.0

Flex-Seal 2.0 from **Sealing Systems** is an all-purpose sealant that adheres to many surfaces and has over 800% elongation. It is designed to prevent inflow and infiltration and to provide corrosion protection at the grade adjustment ring section or joint section of manholes and catch basins. It is 100% safe and Prop 65 compliant. **800-478-2054; www.sssealingsystems.com; Booth 1125**



Sulzer Pumps Solutions HST Turbocompressor

The **HST Turbocompressor** from **Sulzer Pumps Solutions** offers an advanced design with digitally controlled magnetic bearing technology and a premium efficient high-speed motor driven through a built-in frequency converter. It has no mechanical wearing parts or lubricants requiring minimal maintenance. This is made possible by electronically controlled magnetic bearing technology, which levitates the integrated rotor/shaft/impeller single-piece assembly along the self-diag-



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nostic features of the active magnetic bearing controller. The result is a compressor with no performance deterioration over time and no need for scheduled maintenance. They are widely used in wastewater treatment plants and in low-pressure industrial processes. **203-238-2700; www.sulzer.com; Booth 2038**

Vaughan Company Chopper Pump

At its core, a true chopper pump consists of a rotating impeller with cupped and sharpened leading edges, cutting against stationary fingers at the entrance to the volute. The original patent was applied for in 1960 by **Vaughan** founder, Jim Vaughan. Vaughan has introduced many new chopper pump models covering a broad range of heads and flow, greatly improved efficiencies, all incorporating numerous patented cutting features. Including upper cutters, stationary cutter bars and other cutting features is fundamental to chopping and clearing problematic materials. This protects downstream components which is vital to the effectiveness of wastewater systems. **360-249-4042; www.chopperpumps.com; Booth 2379**



Wachs Utility Products DWG 416

The **DWG 416** diamond wire guillotine saw from **Wachs Utility Products** can be used to cut pipe from 4- to 16-inch O.D. Equipped with folding arms for ease of storage, transport and entry to tight locations, it uses a diamond-infused cutting wire to cut all materials quickly and precisely, including concrete lined and plastics. It mounts to the workpiece



for safe operation, avoiding kickback injuries. It is hydraulic powered for long life, allowing for full water immersion. Its long-lasting diamond cutting wire delivers a low cost per cut. Two models are available — the DWG 208 for 2- to 8-inch O.D. and DWG 416 for 4- to 16-inch O.D. **847-537-8800; www.turnvalves.com; Booth 743**

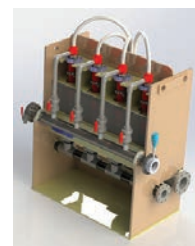
WinCan Web

Maintaining sewers starts with understanding sewer condition, and WinCan makes it easy to collect detailed, standards-compliant inspection data. It identifies trends, pinpoints hot spots, prioritizes maintenance and lets you forecast budgets. Its broad range of reporting and data visualization tools lets you drill down to the insight you need. Now, **WinCan Web** helps get more from the sewer inspection data collected. The cloud-based platform lets you share inspection data with anyone — instantly and securely online; view video, maps and observations on any device with a browser; safeguard your data with automatic offsite backups; and reduce IT costs and overhead. It replaces unreliable methods of sharing inspection data — such as printouts, DVDs, emails and thumb drives — with cloud-based collaboration. And it works with all brands of sewer inspection equipment. **877-626-8386; www.wincan.com; Booth 2907**



World Water Works inDENSE

World Water Works' inDENSE system increases process throughput and performance through the selection of dense sludge aggregates with improved MLSS settling and the promotion of enhanced biological phosphorus removal bacteria. It's a gravimetric selection technology that provides a method for retaining the denser biomass while wasting out the lighter (unwanted) fraction of the MLSS in the treatment system. It can enhance nitrogen and phosphorus removal, promote denser sludge selection, and serve as a solution for poor settling MLSS. It reduces and/or completely eliminates chemistry for settling/TP removal, and can be easily integrated into any existing plant. It offers a minimization of sludge loss and operational stability. **800-607-7873; www.worldwaterworks.com; Booth 1861**



YSI VARiON Plus 700 IQ H

The **VARiON Plus 700 IQ H** is YSI's Class I, Division 2 rated sensor for measuring ammonium and nitrate in hazardous locations. It is an ISE probe and works directly with IQ SensorNet for process monitoring and control. IQ SensorNet is the only networked water quality monitoring system available that can measure ammonium and nitrate in C1D2-rated areas. The unit conforms with NFPA standard 820 to reduce the potential of fire or explosion in hazardous locations in wastewater treatment facilities. The sensor is reliable and a safer option for measuring nitrate and ammonium in aeration basins that are not preceded by a primary settling tank. **937-767-7241; www.ysi.com; Booth 1808**



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WORTH NOTING

PEOPLE/AWARDS

Dr. Abderrahman Zehraoui was hired as executive director of the Niagara Falls (New York) Water Board.

Andrea Cole was hired as general manager of Dominion Water & Sanitation District, which incorporates a focus on stormwater for Douglas County (Colorado).

Freese and Nichols announced the election of new principals across the firm's Texas offices:

- Jim Keith, manager in the stormwater engineering group in Dallas
- Krista Bethune Melnar, stormwater practice leader and group manager of the stormwater engineering group in Austin
- Cory Stull, manager in the stormwater engineering group in Houston

The American Planning Association-Federal Planning Division presented **U.S. Army Garrison Rheinland-Pfalz**, Germany, a Merit Award in the Environmental Planning category for its Stormwater Pollution Prevention Plan. The plan was recognized for improving the management, function and quality of stormwater runoff.

Tony Rojas retired after 20 years as executive director of the Macon (Georgia) Water Authority. ♦

CALENDAR

Aug. 29-Sept. 1

American Public Works Association Public Works Expo (PWX), America's Center, St. Louis. Visit apwa.net.

Sept. 13-15

StormCon Milwaukee and WaterPro Conference, Wisconsin Center, Milwaukee (parallel events being held on same days and location). Visit stormcon.com or waterproconference.org.

Oct. 6-8

Southeast Stormwater Association Regional Stormwater Conference, Hilton Head Marriott Resort and Spa, Hilton Head Island, South Carolina. Visit seswa.org.

Oct. 6-9

American Society of Civil Engineers 2021 Convention, Hilton Chicago Hotel, Chicago. Visit asce.org.

Oct. 12-14

American Public Works Association Public Works Expo (PWX) Plus, held virtually for those unable to attend in person the PWX event on Aug. 29-Sept. 1. Visit apwa.net.

Nov. 8-11

American Water Resources Association Annual Conference, Embassy Suites by Hilton, Kissimmee, Florida. Visit awra.org.

Municipal Sewer & Water invites your national, state or local association to post notices and news items in this column. Send contributions to editor@mswmag.com.

5

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SETTING GOALS

NASSCO committees are making lasting impact on industry standards

By Sheila Joy

It's only two months into NASSCO's fiscal year and our dedicated and hard-working committees are already making significant impacts on the underground infrastructure industry.

With an objective to support and move forward NASSCO's vision to build awareness of our aging underground infrastructure, the committees were charged with setting goals for 2021 that accomplish this through one of three ways: education, technical resources and advocacy. We look forward to an exciting year as the following goals are achieved to support our entire industry.

Government Relations: Advance NASSCO's federal policy recommendations with congressional leaders and federal agencies while increasing NASSCO member participation for fly-ins and NASSCO's grassroots Sewer System Heroes campaign.

Grouting: Develop curriculum for NASSCO's ITCP Grouting course; conduct third-party research on grouting materials; develop a grouting material safety training document; and develop an educational tool based on a white paper on grout test cell research findings.

Health and Safety: Support all committees in matters of health and safety; develop safety videos on the topics of styrene monitoring equipment and confined-space entry; conduct a webinar on styrene monitoring equipment; serve as resource for industry-wide questions on safety.

Infrastructure Assessment: Continue implementation of Pipeline Assessment Certification Program Version 8; publish NASSCO QA/QC guidelines; produce educational videos on PACP, including PACP for Asset Management; develop a PACP risk management online course; and help roll out NASSCO's cross-bore policy to state regulators.

Lateral: Develop an educational video on lateral rehabilitation technology; update NASSCO specification guideline for lateral lining and overview document; monitor plumbing codes; develop resources for lateral inspections in real estate transactions.

Manhole Rehabilitation: Update content for ITCP Manhole Rehab; develop matrix detailing differences, advantages and methodologies of manhole rehab technologies; and produce educational video on manhole rehabilitation.

O&M: Update NASSCO's Jetter Video; develop NASSCO specification guideline for pipe cleaning prior to cured-in-place pipe or coating.

Pipe Rehab: Support NASSCO's Phase 3 study on CIPP emission safety underway by the Trenchless Technology Center; create educational video on spiral wound technology; develop technical resources on the topic of spray-applied pipe lining; and write a white paper on features and benefits of all pipe rehab technologies.

Pressure Pipe: Develop a white paper on pressure pipe technology; conduct an educational webinar on pressure pipe rehab; develop a NASSCO specification guideline for rehab of force mains using CIPP; and develop matrix highlighting requirement differences between water and force mains.

Software: Prepare for PACP Version 8 implementation; plan for import/export data exchange using SQLite; develop document explaining changes between PACP Version 6-7 and 7-8; and build relationships with asset management software vendors.

Workforce Development: In partnership with SkillsUSA and other NASSCO committees, develop curriculum on trenchless rehab industry trades; and partner with other trade associations to extend workforce development initiatives.

To learn more about these goals, visit NASSCO.org where you can watch a recording of NASSCO's June 22 webinar with detailed updates from each committee chair.

Do you think you can help NASSCO move these initiatives forward? If so, we need you! If you are already a NASSCO member and want to get involved, email lisa@nassco.org. If you are not yet a member, please join us by visiting NASSCO.org today. ♦



NASSCO is located at 5285 Westview Drive, Suite #202, Frederick, MD 21703; 410-442-7473; www.nassco.org

Sheila Joy is executive director of NASSCO. She can be reached at director@nassco.org.

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Sept. 14, 7 a.m.

Antioch, CA

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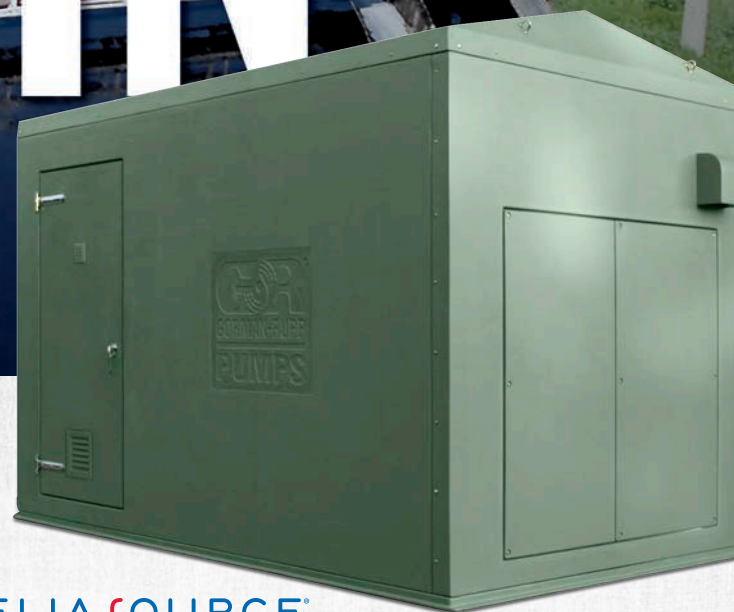
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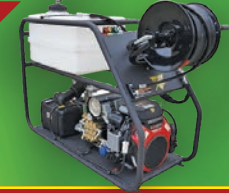


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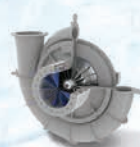
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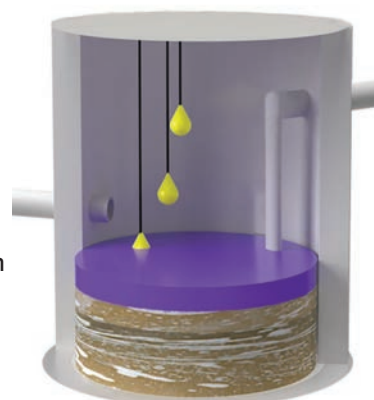
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Product Spotlight

Device combines pressure monitoring with acoustic leak detection

By Craig Mandli

In the world of municipal water and sewer maintenance, leaks are money. Not only does that mean money down the drain, but technically right out the drain as well. Those additional treatment and conveyance costs mean not only decreased revenue, but also increased costs in leak detection and pipeline repair.

To combat the issue, Syrinix has launched the PIPEMINDER-ONE Acoustic, a device that combines the power of transient pressure monitoring with acoustic leak detection. Combined with RADAR, Syrinix's cloud analysis platform, PIPEMINDER-ONE Acoustic locates leaks on a broad range of pipeline material and sizes. Like the rest of the PIPEMINDER-ONE family, the Acoustic version triangulates pressure events and sends intelligent alarms so utility users can identify and fix potential problems on their network. Because units are widely spaced along the distribution network, fewer PIPEMINDER-ONE Acoustic units than traditional leak detectors are needed to obtain high-resolution data.

"Water and wastewater utilities need cost effective and resilient monitoring systems," says Mark Hendy, vice president of business development EMEA at Syrinix. "The PIPEMINDER-ONE Acoustic can be installed permanently or on a semi-permanent survey basis for use detecting both leaks and the damaging pressure events that can lead to leaks and bursts."

According to Hendy, the benefits of PIPEMINDER-ONE Acoustic



translate to significant cost savings. "Preventing asset deterioration is often the best way to maintain a viable utility," he says. "With the early detection of leaks and problematic pressure sources, utilities can proactively make operational adjustments to prevent wear and tear on the network instead of reacting to asset failures."

PEPMINDER-ONE Acoustic records pressure at 128 samples per second, generating both transient and summary data, which can be used for triangulation, clustering, classification and export via an API. The addition of acoustic data from an improved hydrophone is used in combination with pressure monitoring to identify a leak position. With speedy and precise detection, utilities can now respond quickly to operational and network failures before customers notice any problems and, with the same unit, identify and mitigate the pressure events contributing to those leaks and bursts.

"Modern utilities must monitor for developing leaks while performing real-time analysis of pressure transient events," says Ben Smither, vice president of engineering at Syrinix. "Combining leak notifications with high resolution pressure monitoring and zone alarms empowers operators with the data to save time, save money and improve performance." www.syrinix.com

SPECIAL REPORT

DeZURIK APCO ASU Combination Air Valves



APCO Single Body Combination Air Valves from DeZURIK can be used for clean or dirty fluids. The venting design provides varied and predictable air flow over a wide range of air release and air/vacuum conditions with low pressure sealing down to 2 psi. The compact design of the ASU combination air valve allows for installation in piping systems with limited space and in vaults with low ceiling heights. A large-diameter air/vacuum disc provides high-volume air flow for rapid venting during pipeline filling and for high volumes of air to enter the pipeline during draining. During

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SPECIAL REPORT



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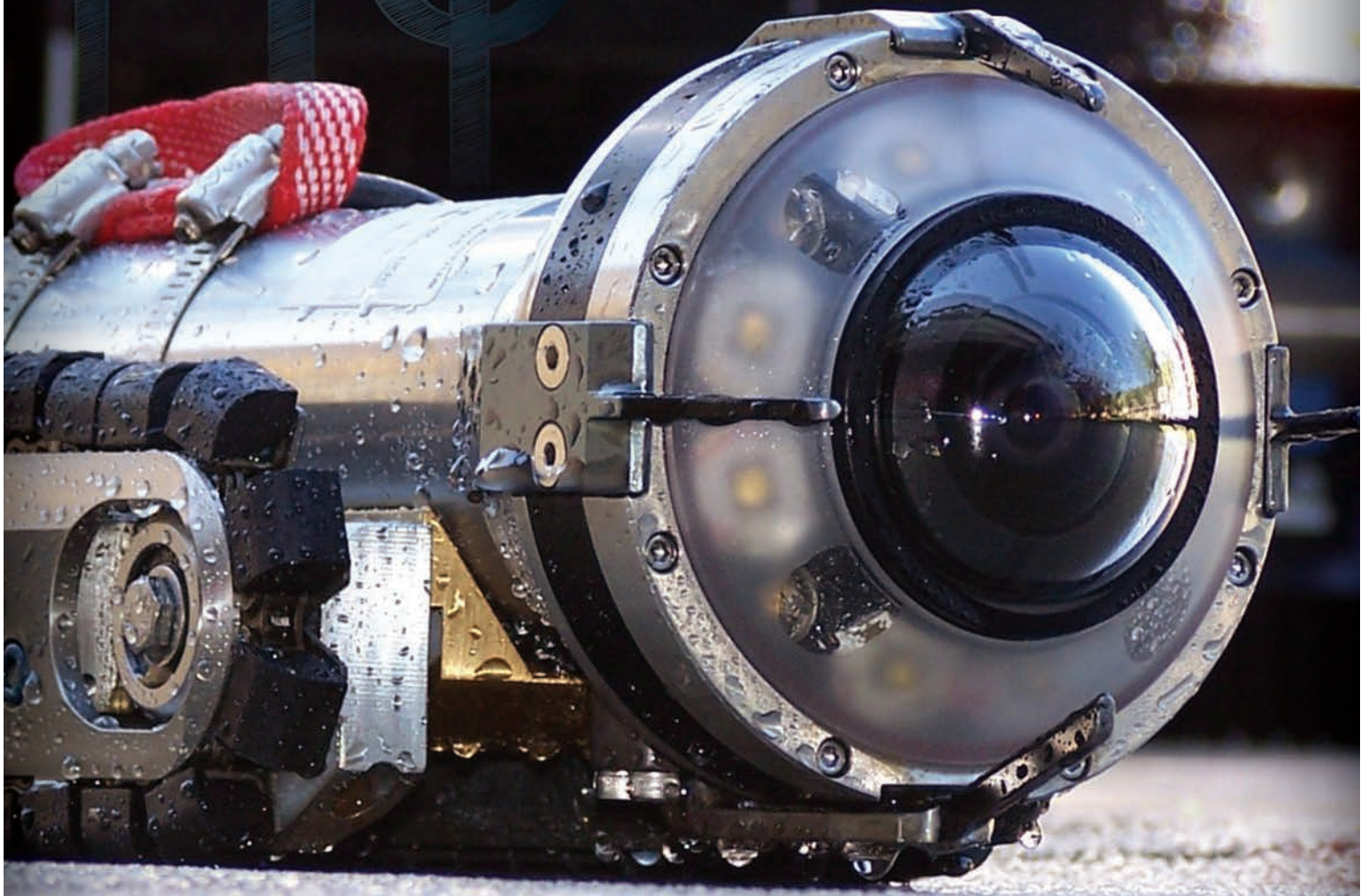
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