

MUNICIPAL

SEWER  
&

WATER™

FOR SANITARY, STORM AND WATER SYSTEM MAINTENANCE PROFESSIONALS

September 2018

www.mswmag.com

HUMAN SIDE: COMPLIANCE TRAINING  
AND POLICIES AREN'T ENOUGH

PAGE 22

TECH CLOSE-UP: SATELLITE TECHNOLOGY  
HELPS UTILITIES SPOT LEAKS

PAGE 36

STAYING SAFE: PLANNING IS KEY  
TO PROTECTING PEDESTRIANS

PAGE 114

2018-2019  
BUYER'S  
GUIDE

PAGE 50

# MAPPING THE FUTURE

Wisconsin utility's GIS mapping  
and other next-generation upgrades  
boost system performance

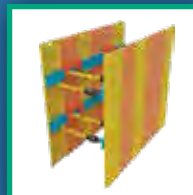
PAGE 28



Travis Kloetzke  
Water Utility General Manager  
Fond du Lac, Wisconsin

## PRODUCT NEWS

PAGE 124



# Share Sewer Inspections with **Anyone, Anywhere**

1  
Download projects with pre-populated headers.

2  
Upload complete PACP-compliant inspections.

3  
Share securely online with anyone, anywhere.



**ROVVER X  
Makes It  
Possible.**

With our new crawler controls, you can wirelessly download assigned projects, complete PACP-compliant inspections on the touchscreen and upload your results to the cloud to share instantly. **See what else ROVVER X makes possible – request a FREE demo.**

**EnviroSight**

# THIS CHANGES EVERYTHING. AGAIN.



## THE NEW VACTOR 2100i

**Intuitive. Intelligent. Innovative.  
Individualized. Incomparable.**

These words describe the new Vactor 2100i. Add it all together and you have a machine that combines proven performance with a new level of operating simplicity.

From the revolutionary, new IntuiTouch™ controls to the patent pending, optional RDB1015™ Rapid Deployment Boom, the 2100i does more, with less effort, and more control than ever before.

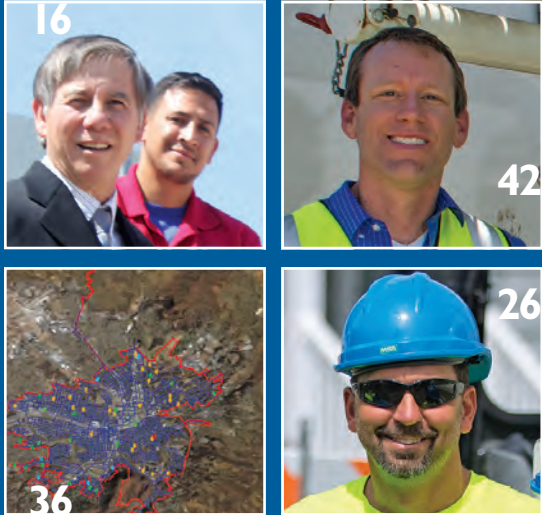
Discover how we made  
the best even better.

Visit [2100i.vactor.com](http://2100i.vactor.com)

# VACTOR® 2100i

# INSIDE:

ANNUAL BUYER'S GUIDE



ON THE COVER: Fond du Lac (Wisconsin) Water Utility General Manager Travis Kloetzke stands in one of the utility's five booster stations. Fond du Lac distributes an average of 4.5 mgd over a 20-square-mile service area. (Photography by Mike Roemer)



## COMING IN OCTOBER 2018

### Flow Control & Monitoring

- ◆ **TECH CLOSE-UP:** Pump regulation lets wipes pass through
- ◆ **HUMAN SIDE:** Today's utilities need an agile workforce
- ◆ **WATER:** Charleston tackles major capital

## FEATURES

- 16 STORM: An Urban Oasis**  
Restoration project provides flood control, rainwater harvesting, wildlife habitat and a host of recreational opportunities.  
By Lee Allen
- 28 WATER: Mapping the Future**  
Wisconsin utility's GIS mapping and other next-generation upgrades boost system performance.  
By Jared Raney
- 42 SEWER: The Rules of Rehabilitation**  
Aurora tackles deteriorating interceptors with a new comprehensive asset management plan.  
By Giles Lambertson

## COLUMNS

- 8 FROM THE EDITOR: The Future of Water and Wastewater**  
Improvements are evident as utilities upgrade the tools and technology of their trade.  
By Luke Laggis
- 12 @mswmag.com**  
Visit daily for news, features and blogs. Get the most from *Municipal Sewer & Water* magazine.
- 22 HUMAN SIDE: Rooting Out Sexual Harassment**  
Compliance training and policies alone aren't enough to curb this insidious misuse of power in the workplace.  
By Ken Wysocky
- 36 TECH CLOSE-UP: A View From Above**  
Satellite-based technology helps water utilities find and fix distribution and transmission leaks more cost-effectively.  
By Ted J. Rulseh
- 48 NASSCO CORNER: Rounding Up the Industry**  
NASSCO is working to bring members together and understand regional issues.  
By Sheila Joy
- 50 ANNUAL BUYER'S GUIDE**
- 114 STAYING SAFE: Secure Your Site**  
Planning is key to protecting pedestrians in and around your job sites.  
By Jared Raney
- 118 WEFTEC PRODUCT PREVIEW**  
By Craig Mandli
- 124 PRODUCT NEWS**  
Product Spotlight: Compact vacuum manufacturer jumps into the municipal market.  
By Craig Mandli
- 126 INDUSTRY NEWS**
- 128 WORTH NOTING**  
People/Awards; Learning Opportunities; Calendar

SEPTEMBER 2018

MUNICIPAL  
**SEWER**  
&  
**WATER**

# ZERO DIG

Trenchless  
PIPE REPAIR

**SECTIONAL MAIN LINE POINT REPAIR**  
NOW INTRODUCING **STYRENE-FREE SILICATE** RESINS  
**FOR RAPID CURE TIMES**

100% AMERICAN MADE

100% TRENCHLESS

100% SUPPORTED

## SECTIONAL POINT REPAIR SYSTEM

- ✓ 3+ Repairs in a Single Day
- ✓ 3 Man Crew Required
- ✓ Structural Repair
- ✓ 6" Diameter Pipes and Larger
- ✓ 2 FT Length Repairs and Longer
- ✓ Sold in Kit Form - No Measuring or Waste

## COMPLETE SYSTEM & TRAINING FOR LESS THAN \$15,000

- ✓ PLI Certified Installer Onsite Training
- ✓ 10 Sectional Point Repair Kits (8" x 4')
- ✓ Installation Equipment
- ✓ PLI Certified Technical Support
- ✓ PLI Marketing Support & Lead Generation
- ✓ Proudly Made in the USA

CALL TO SCHEDULE A **ONE-ON-ONE DEMONSTRATION!**

 **LIVE DEMOS** ALL SUMMER LONG 



**TURN-KEY TRAILERS  
& TURN-KEY BOX  
TRUCKS**

**PERMA-LINER™  
INDUSTRIES, LLC.**


























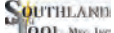
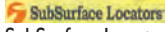






**ZERO DOWN, NO  
PAYMENTS FOR  
90-DAYS**



To learn more call **1-866-336-2568** or visit **www.perma-liner.com**

# ADVERTISER INDEX

COMPANY	PAGE
3T Equipment Co. Inc.	123
ADS Environmental Services	9, 115
 AMP	
American Highway Products, Ltd.	95
American Pleasure Products, Inc.	109
 American Sewer Parts & Cleaning	21
American Shoring, Inc.	14
 AMT Pump Company	26
AP/M Permaform	83
 Applied Felts	
Applied Felts, Inc.	35
 Aries Industries, Inc.	27
Arthur Products Co.	87
Best Management Products, Inc.	95
Blue-White Industries	43
 Cam Spray	38
CCI Pipeline Systems	99
 Chempace Corporation	97
Cretex Specialty Products	40
CTSpec	51
 CUES	61
Cusco	23
Deep Trekker	65
 Duke's Root Control, Inc.	15
Edgewood Media Solutions, LLC	116
Elastec	85
 EnviroSight	
Envirosight	2
 enz usa inc.	
Enz USA Inc.	83
Felling Trailers, Inc.	10
Ferguson Waterworks	69
FlowMark Vacuum Trucks	105
Foundry Services Co.	93
 GapVax	
GapVax, Inc.	135
 General Pipe Cleaners/General Wire Spring	31
 Gorman-Rupp Pumps	
Gorman-Rupp Company	113
Greyline Instruments	20
Hach - Flow Products & Services	53
 HammerHead Trenchless	79
 Hannay Reels	
Hannay Reels	103
Hermann Sewerin GmbH	26
HIPPO Multipower	25
Hurco Technologies, Inc.	24
 InfoSense, Inc.	8
InfoSense, Inc.	8
InfoSight Corporation	91
Inliner Technologies	19
IPEX USA LLC	41
JAECO Fluid Systems	39

COMPANY	PAGE
 Kaiser Premier	
Kaiser Premier LLC	14
Komline-Sanderson	87
LADTECH, Inc.	91
Liner Products	47
LMK Technologies	127
Miller Pipeline Corp.	10
Multi Fittings Corp.	59
 NozzTeq	
NozzTeq, Inc.	107
 Perma-Liner Industries, LLC	5
Petersen Products Co.	107
Pipeline Renewal Technologies	33
 RapidView IBAK North America	49
RauschUSA	71
Raven Lining Systems	89
Reed Manufacturing	97
Reline America, Inc.	101
Root Rat	109
 RootX	
RootX	57
RUGID	38, 125
SAERTEX multiCom LP	34
Sauereisen, Inc.	105
Sealing Systems, Inc.	103
Sewer Equipment	13
Singer	24
SmartCover Systems	11
 Sonetics Corporation	
Sonetics	75
 Southland Tool Mfg. Inc.	129
Specialty Maintenance Products	81
SpectraShield Liner Systems	63
Sto-Away Power Cranes, Inc.	123
 SubSurface Locators	
SubSurface Locators, Inc.	99
 Super Products	
Super Products LLC	73
 T&T Tools, Inc.	101
The Plug Hug LLC	91
Total Piping Solutions, Inc.	40
 Ultra Shore	87
USB-USA LLC	34
 VAC-CON	
Vac-Con, Inc.	136
Vacall	55
 Vactor	
Vactor Manufacturing	3
Vanair	45
Vaporooter	77
Vaughan Company, Inc.	37
VEGA Americas, Inc.	67
Vivax-Metrotech Corp.	20
Wilo USA	117
 WinCan	
WinCan, LLC	7
WWETT Show	134
CLASSIFIEDS	132
MARKETPLACE	130-133

## MUNICIPAL SEWER & WATER

FOR SANITARY, STORM AND WATER  
SYSTEM MAINTENANCE PROFESSIONALS

Published monthly by:

 COLE publishing

1720 Maple Lake Dam Rd., PO Box 220,  
Three Lakes, WI 54562



www.mswmag.com

© Copyright 2018, COLE Publishing Inc.

No part may be reproduced without permission of publisher.

In U.S. or Canada call toll free 800-257-7222

Elsewhere call 715-546-3346

Email: info@mswmag.com / Fax: 715-546-3786

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

**SUBSCRIPTIONS:** A one year (12 issue) subscription to *Municipal Sewer & Water*™ in the United States, Canada and Mexico is free to qualified subscribers. A qualified subscriber is any individual or company in the United States, Canada and Mexico that maintains, manages, designs or installs municipal or commercial sewer, water and storm infrastructures. To qualify, visit [www.mswmag.com](http://www.mswmag.com) or call 800-257-7222.

Non-qualified subscriptions are available at a cost of \$60 per year in the United States and Canada/Mexico. Subscriptions to all other foreign countries cost \$150 per year. To subscribe, visit [www.mswmag.com](http://www.mswmag.com) or send company name, mailing address, phone number and check or money order (U.S. funds payable to COLE Publishing Inc.) to the address above. MasterCard, VISA, American Express and Discover are also accepted. Include credit card information with your order.

Our subscriber list is occasionally made available to carefully selected companies whose products or services may be of interest to you. Your privacy is important to us. If you prefer not to be a part of these lists, please contact Nicole at [nicole.labeau@colepublishing.com](mailto:nicole.labeau@colepublishing.com).

**CLASSIFIED ADVERTISING:** Submit classified ads online at [www.mswmag.com/classifieds](http://www.mswmag.com/classifieds). Minimum rate of \$25 for 20 words; \$1 per each additional word. All classified advertising must be paid in advance. DEADLINE: Classified ads must be received by the first of the month for insertion in the next month's edition. PHONE-IN ADS ARE NOT ACCEPTED. Fax to 715-546-3786 only if charging to MasterCard, VISA, Discover or AmEx. Include all credit card information and your phone number (with area code). Mail with check payable to COLE Publishing Inc. to the address above. CLASSIFIED ADVERTISING APPEARS NATIONWIDE AND ON THE INTERNET. Not responsible for errors beyond first insertion.

**DISPLAY ADVERTISING:** Contact Jim Koshuta or Kayla Bisnette at 800-994-7990. Publisher reserves the right to reject advertising which in its opinion is misleading, unfair or incompatible with the character of the publication.



Jim Koshuta



Kayla Bisnette

**EDITORIAL CORRESPONDENCE:** Send to Editor, *Municipal Sewer & Water*, PO. Box 220, Three Lakes, WI, 54562 or email [editor@mswmag.com](mailto:editor@mswmag.com).

**REPRINTS AND BACK ISSUES:** Visit [www.mswmag.com](http://www.mswmag.com) for options and pricing. To order back issues, call Nicole at 800-257-7222 (715-546-3346) or email [nicole.labeau@colepublishing.com](mailto:nicole.labeau@colepublishing.com). To order reprints, call Jeff Lane at 800-257-7222 (715-546-3346) or email [jeff.lane@colepublishing.com](mailto:jeff.lane@colepublishing.com).

**CIRCULATION:** 2017 average circulation was 37,681 copies per month (U.S. and international distribution).



[www.facebook.com/MSWmag](http://www.facebook.com/MSWmag)  
[www.twitter.com/MSWmagazine](http://www.twitter.com/MSWmagazine)  
[www.youtube.com/MunicipalSewerWater](http://www.youtube.com/MunicipalSewerWater)  
[www.linkedin.com/company/municipal-sewer-&-water-magazine](http://www.linkedin.com/company/municipal-sewer-&-water-magazine)



Water & Wastewater Equipment,  
Treatment & Transport Show  
[www.wwettshow.com](http://www.wwettshow.com)

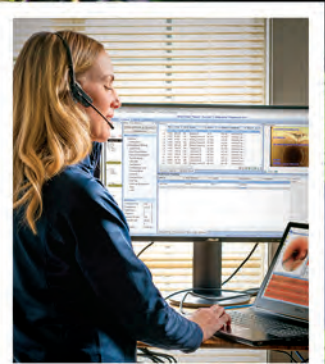
Education Day: Wed., Feb. 20, 2019  
Exhibits: Thurs.-Sat., Feb. 21 - 23, 2019  
Indiana Convention Center, Indianapolis, Ind.



## Online Insight, Trusted Support

Share your sewer asset data on the cloud effortlessly and securely with WinCan Web. From the moment you sign on, our support specialists guide you toward better insight, better decisions and better teamwork. It's just one more way we never stop innovating.

[www.wincan.com/web](http://www.wincan.com/web)



# THE FUTURE OF WATER AND WASTEWATER

Improvements are evident as utilities upgrade the tools and technology of their trade



FROM THE EDITOR

Luke Laggis

**T**echnology and innovation pushes everything forward, from entertainment to manufacturing to water and wastewater utility operations.

The three utilities profiled in this issue of *Municipal Sewer & Water* exemplify that fact. The city of Aurora (Colorado) Water Operations department made the decision a few years back to get a better handle on its infrastructure. It had already adopted CCTV inspection and pipe rehabilitation programs, but that wasn't enough.

The department's newly established principal engineer position was tasked with creating and implementing a comprehensive asset management program incorporating data systematically collected by the city during previous decades. That included development of an organization-

wide strategic plan and a specific strategy to systematically inspect the community's wastewater lines, and using that information to prioritize interceptor relining work.

The city has now prioritized projects and has plans to line a significant amount of its highest-priority pipes over the next five years. By all accounts, the asset management initiative has gotten off to a very successful start.

The Fond du Lac (Wisconsin) Water Utility has also embraced technology in its quest to improve service and operations. While the utility is more than 130 years old with some of the original distribution system still in service, it is using technologies like GIS mapping and automated systems to carry it well into the future.

Fond du Lac recently built the first GIS map of its entire system using old historical records. The utility had asset data stored in a filing cabinet but no way to visualize it. So, team members worked to recreate all that data by digitizing and interpreting historic construction plans to create a map that's accessible on fieldworkers' smartphones and tablets. The system has already helped locate shut-off valves quickly on water main breaks and dictate replacement schedules for problem pipes.

The utility has also installed advanced metering infrastructure, providing instantaneous water consumption reports from all the system's customers, and is working to integrate AMI, SCADA, and GIS systems.

Pima County, Arizona, along with the Army Corps of Engineers, put different technology to work in the city of Tucson. An initial flood diversion project quickly grew into a massive stormwater collection/distribution system that encompasses 155 acres while providing flood control, wildlife habitat, and a new recreation area, all at a savings to taxpayers.

High in the sky above all these communities, another remarkable form of technology is at work. Utilis, a company founded in 2013, is using analysis of images captured by a satellite-mounted radar system and sensor to detect leaks in water distribution and transmission networks. The company says its method, used in tandem with traditional acoustic devices, can triple leak detection efficiency. The system can pinpoint as many as hundreds of possible leaks in a single project, and it can be much more time- and cost-effective than traditional leak detection methods.

It's a remarkable tool and a far cry from digging up pipe to try to find a leak. All of the technology in these stories is remarkable, and it highlights how far the water and wastewater industry has come in recent years.

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.

## OUR TECHNOLOGY IS BASED ON SOUND SCIENCE

Inspect More, Clean Better

Active Acoustics screen for blockage with no flow contact

MILLIONS OF FEET INSPECTED

- Save time, water, AND money
- Screen 2+ miles per day
- EPA validated
- Highly portable and easy to operate



877-747-3245

sales@infosense.com • www.infosense.com

weftec | 2018  
Booth 1039





# ECHO™

## More Than a Simple Level Alarm

The ADS ECHO™ helps you better understand collection system performance. New LTE-M communications provides reliable, on-demand access to actionable data. When combined with ADS' FlowView software, the ADS ECHO provides system-wide performance at a glance or the ability to drill down to specific site details.

The ADS ECHO is a multi-purpose level monitor designed to handle a variety of applications, including...

### EFFICIENT CLEANING PROCESS

The ADS ECHO enables utilities to optimize cleaning practices where continuous monitoring practices can drive when to clean, protects the site 24/7 and reduces wear on the pipes.

### LIFT/PUMP STATION BACKUP

The ADS ECHO adds redundancy for monitoring critical wastewater pump stations, eliminating power outages and pump concerns.

### SSO MITIGATION & BYPASS MONITORING

Uniquely providing 20 feet of visibility below the unit and up to eight feet above it, the ADS ECHO always knows the water level in a manhole and provides multiple configurable alarms for advanced warning. It monitors bypass sites providing 24/7 protection against SSOs.

### HYDRAULIC MODELING

The ADS ECHO captures remote site data in a cost efficient manner, enabling wider deployment of sensors that can continuously feed and update hydraulic models.

### I&I SCOUTING

The ADS ECHO enhances I&I studies, specifically when coupled with the ADS TRITON+® flow monitor.

### CSO DATA & REPORTING

The ADS ECHO makes CSO reporting easier with automated data capture and reporting tools.



Find your  
**Trusted Solution**



Booth **#4317**

**Solutions You Can Trust**



[www.adsenv.com/echo](http://www.adsenv.com/echo)

# WE KNOW SEALS INSIDE AND OUT

WEKO-SEAL® is the leading trenchless system for internal joint seals. With more than 40 years of experience and 250,000 installations, our experts have developed a turnkey process that's simple and used in pipelines carrying any product and any shape—including pipes with compound angles. When it comes to leaks, WEKO-SEAL® can't be beat.



[www.weko-seal.com](http://www.weko-seal.com)



## *EXPERIENCE YOU CAN TRUST, QUALITY THAT IS PROVEN.*

You know what you need to haul, Felling has the trailer to get it there. With over 100 years combined industry sales experience, Felling provides the innovative solutions for your specialized trailer needs. Talk to Felling, The Trailer Experts.



### FT-20 IT-1

Shown with optional 5' stationary platform with storage rack, shovel pipes, 140K twin 2-speed jacks, Vivid White paint, spare wheel & tire mounted



# FELLING® The Trailer EXPERTS.

Visit [www.felling.com](http://www.felling.com) |  
Call 1-866-213-2948 | Email [trailers@felling.com](mailto:trailers@felling.com)



VISIT US AT  
**2018 WEFTEC**  
In New Orleans | Oct 1-3  
BOOTH # 3839

Something keeping  
you up at night?  
Sleep well.

**SmartCover® Systems™**  
has you covered.



**Do you worry about what could go  
wrong with your collection system overnight?**

Now you can rest easy.  
**SmartCover Systems** has you covered.

**SmartCover** provides you with collection system visibility by  
offering real-time condition assessment,  
alerting you to a potential issue before it occurs.

No more spills or mess.

*We deliver more than data. We deliver peace of mind!*



[smartcoversystems.com/msw](http://smartcoversystems.com/msw) • [sales@smartcoversystems.com](mailto:sales@smartcoversystems.com) • 760-291-1980

# @mswmag.com

Visit the site daily for new, exclusive content. Read our blogs, find resources and get the most out of *Municipal Sewer & Water* magazine.

## PUBLIC WORKS

### Engaging the private sector

Despite the fact that municipal workers are putting in long days to make life better for everyone, it often feels like they're at odds with the public. Many municipalities have at least thought about customer education and outreach in an effort to combat misinformation and unfair stigmas about the sewer and water industry. See a few of their ideas in this online exclusive article. [mswmag.com/featured](http://mswmag.com/featured)



## OVERHEARD ONLINE

“The main focus is to explore the surfaces of cities, searching for overlooked, seemingly insignificant details on the pavement.”

— *'Pirate Printers' Find Beauty in Manhole Covers* [mswmag.com/featured](http://mswmag.com/featured)



## LOW-INCOME CITIES

### Why infrastructure is a hard sell

Spending \$20 million on restoring sewer and water lines is not something many Lawrence, Massachusetts, residents are keen on. Even though the city hasn't raised water/sewer rates in 10 years, residents are anxious about the money being spent on pipeline restorations. That kind of investment into unseen infrastructure isn't viewed in the same light as something like a shiny new sports center. [mswmag.com/featured](http://mswmag.com/featured)



## BABY BOOMER RETIREMENTS

### Employment gap in water sector

When Kathleen Cahall was a high school student in Dayton, Ohio, her advanced chemistry class focused on environmental issues including water quality. As the class progressed, Cahall says she came to understand that she had found her professional life's work. Nearing retirement after 27 years, Cahall expresses concern that too few young careerists in today's workplace share her interest in public utility work. [mswmag.com/featured](http://mswmag.com/featured)



## Emails & Alerts

Visit [MSWmag.com](http://MSWmag.com) and sign up for newsletters and alerts. You'll get exclusive content delivered right to your inbox, and you'll stay in the loop on topics important to you.



## Join the Discussion

Find us at:  
[facebook.com/MSWmag](https://facebook.com/MSWmag)  
[twitter.com/MSWmagazine](https://twitter.com/MSWmagazine)



# SEWER EQUIPMENT CO. OF AMERICA

# MODEL 800-HPR TRUCK JET

## THE INDUSTRY'S GOLD STANDARD

Sourcewell  
Formerly MAF  
Awarded Contract  
Contract #122017-SCA

Throughout its evolution, the Model 800-HPR has been the industry standard by which other manufacturers are judged. Whether it is longevity, operator safety, overall value or available options, the 800 truck series is without peer in the marketplace.



### EASE OF START-UP / NO CHASSIS INTEGRATION

Designed to have the module and chassis work independently of one another, start-up is as simple as 1-2-3. Put the truck in neutral, engage the parking brake and turn the work mode switch to the "on" position and you are ready to go to work. Start-up so easy any operator can do it and no extensive training is required.

### DURAPROLENE WATER TANKS

Duraprolene water tanks are standard equipment on the Model 800-HPR. The construction of these tanks make them immune to long term water and deicer damage, provide up to 1500 gallon water capacity in under 23' length, and are completely baffled to eliminate water surging and increase operator safety.

### CLIMATE CONTROLLED ENVIRONMENTAL ENCLOSURE

With consideration to climate and security concerns, our unique heated enclosure protects against system freezing during operation in temperatures well-below freezing. The locking roll-up doors also offer unequalled security for your truck and other equipment you carry to your job site.

### EXTENDING/ROTATING HOSE REEL

A unique and simple design allows for hose reel to be stored in a temperature-controlled chamber when not in use. During operation, the rear door opens up and the hose reel can be extended outside the shroud, rotated 190 degrees and locked at every two inch interval, granting operators maximum access to remote manholes, reducing operator fatigue and minimizing operator exposure to "high traffic zones".

### AUTOMATIC LEVEL WIND

Exclusive to Sewer Equipment equipment, the automatic level wind provides hydraulic up/down action which allows operators to access hard-to-reach manholes by raising and lowering the level wind to properly align the sewer hose with the manhole.

### WATER PUMP OPTIONS

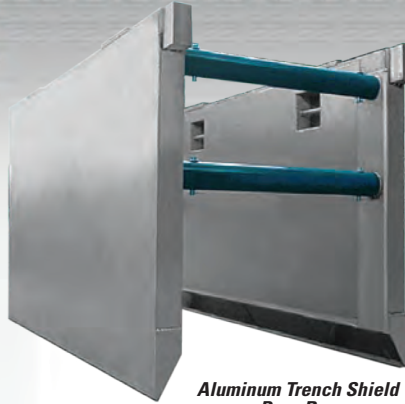
No need to settle for just any water pump, our "plug and play" design allows you to select the water pump of your choice. The 800-HPR is the only truck jet on the market to offer both single piston and triplex water pump designs to meet your application needs exactly.

# Trench Shoring

## with Light Weight ALUMINUM

SALES • RENTALS • SERVICE  
REPAIRS • TRADE-INS • RECERTIFICATION

- Economical and Modular
- Professional Engineer Certified to O.S.H.A. Regulations
- Field Service and Support
- Our Light weight Systems are Transportable By Pick-up, Truck, Van or ASI Shoring Trailer
- Custom Configurations Available
- Unload & Assembly by Hand



Aluminum Trench Shield Drag Box



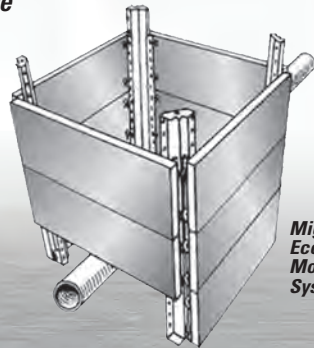
Aluminum Trench Shield Drop Box

- Manufacturer of Complete Line of Heavy Duty and Lightweight Aluminum or Steel Trench Shoring.

- Road Plates & Rock Boxes
- Worlds only Manufacturer of Aluminum Slide Rail Systems



MightyLite® Erector Series



MightyLite® Economic Modular System

Original MightyLite Since 1989

FACTORY DIRECT

MADE IN THE USA

# AMERICAN SHORING INC.

1-800-407-4674

www.americanshoring.com  
E-Mail us at: sales@americanshoring.com



## KAISER PREMIER



## KAISER RENTAL



**AquaStar**  
Sewer Cleaner &  
Water Recycling System



**CV Series Hydrovac**  
Best In Class Hydrovacs



**Urban X**  
Dig With Water, Air Or Both

IMMEDIATE AVAILABILITY  
RENT TO PURCHASE OPTIONS  
SALES AND SERVICE  
MADE IN THE USA

www.kaiserpremier.com  
970-542-1975  
sales@kaiserpremier.com



Visit us at WEFTEC Booth #4439

## SSO prevention starts here.

**Duke's Razorooter® II is a diquat-based herbicide that is registered by the EPA for controlling roots in sewer lines.**

Duke's has sewer root control down to a science. Nearly 40 years of experience, 250 million feet of treated sewer lines, and a quality guarantee make Duke's the root and grease control company you can count on. This long-term success is possible because of what happens behind the scenes. Duke's trained team of experts in the laboratory, on the street and in the office constantly work to develop the best products, deliver world-class customer service and ensure every application is successful. Guaranteed. **Visit [dukes.com](http://dukes.com) or call 1-800-447-6687 today.**

**Sewer root control done right.**



# AN URBAN OASIS



**Project:**  
Kino Environmental  
Restoration Project,  
Pima County, Arizona

**PURPOSE:**  
Stormwater storage and reuse

**SIZE:**  
155 acres with a 114-million-gallon  
retention basin

**COST:**  
\$11 million





Principal players in the Kino Environmental Restoration Project include (from left) design engineer Lawrence Robinson, maintenance supervisor Loretto Jaimez Jr., flood control district Director Suzanne Shields and hydrologist Jennifer Becker. Officials in Pima County, Arizona, and the city of Tucson have been very happy with the continuing success of this flood control and water recycling project. (Photography by: Lee Allen)

Restoration project provides flood control, rainwater harvesting, wildlife habitat and a host of recreational opportunities

By Lee Allen

Some stormwater projects protect assets. Pima County, Arizona, used its stormwater to create assets.

A couple of decades ago, the county, with help from the Army Corps of Engineers out of Los Angeles, rounded up some earthmovers and went to work on an initial flood diversion project, the 50-acre Ajo Detention Basin.

When the dust finally settled many years later, the modest endeavor ended up triple that size, a 155-acre playground on the south side of Tucson, the largest professional sports and entertainment venue in southern Arizona with a 3,000-seat stadium; a 2,000-seat grandstand; and lots of soccer fields, softball fields, and outdoor basketball courts.

What is lesser known is the other part of that package called the Kino Environmental Restoration Project, or KERP — a well-designed flood control, rainwater harvesting, ecological Eden. It's a wildlife habitat with a 2.2-mile paved bicycle and pedestrian path as part of the retention basin that serves irrigation needs of the site and its surrounding area.

Publicity for the complex calls its construction “an excellent example of a sustainable living community. The project demonstrates what can be achieved when people join forces and share resources to achieve a common goal.”

“The purpose of ecosystem restoration is to establish the attributes of a naturally functioning and self-regulating system,” says Dr. Sharon Megdal,

director of the University of Arizona Water Resources Research Center, quoting from the Corps' mission statement. The Corps came on board belatedly after passage of the National Environmental Policy Act that established environmental protection as one of its primary missions in addition to flood control.

**“Instead of a big flash of floodwater coming through quickly, it slows down and stores that input, minimizing peak discharge. That's public safety in its rawest form.”**

Jennifer Becker

It's a testimonial to excellence as evidenced by a 2006 Army Corps Chief of Engineers award in recognition of “a truly exceptional project — technically sophisticated while appearing natural — that takes an existing mud flat in an arid area and creates aesthetic landscapes, recreation features, and flood control — a prototype for water harvesting.”

#### Different perspective

The KERP captures and directs runoff from an 18-square-mile watershed into a system of lined basins that retain over 114 million gallons (350 acre-feet) of water available for irrigation needs. By harvesting that water, taxpayer costs are

**“We’re the smart kids on the block because we looked at stormwater from a different perspective and were willing to take the risk in building this collection/distribution basin.”**

**Suzanne Shields**

reduced because of the water that doesn’t have to come out of reclaimed system distribution.

That harvested rainwater is a big positive, a low-cost alternative to purchasing and using groundwater. All the basin’s vegetation, the ballfields, median landscapes, and easements are nourished by the harvested water.

“Stormwater from the KERP basin saves taxpayers an average of close to \$400,000 in annual irrigation costs,” says Jennifer Becker, principal hydrologist with the Pima County Regional Flood Control District.

It cost \$11 million to build the KERP, a partnership between the Corps, Pima County Flood Control District, and the County Regional Wastewater Reclamation Department. “The county share of the construction costs, about \$6 million, was amortized this year because of the money saved by using that harvested water,” Becker says. “And our detention basin helps reduce peak flood discharge amounts by 45 percent. Instead of a big flash of floodwater coming through quickly, it slows down and stores that input, minimizing peak discharge. That’s public safety in its rawest form.”

**Maintenance supervisor Loretto Jaimez Jr. checks the control panel in the recycle pump station.**



## RETENTION BASIN DRAWS WEALTH OF WILDLIFE

In the southern Arizona end of the arid Sonoran Desert lies a 114-million-gallon retention basin that serves not only as a flood control mechanism during the rainy season, but a dry-month source of water that keeps a lush riparian area green during a time of triple-digit heat.

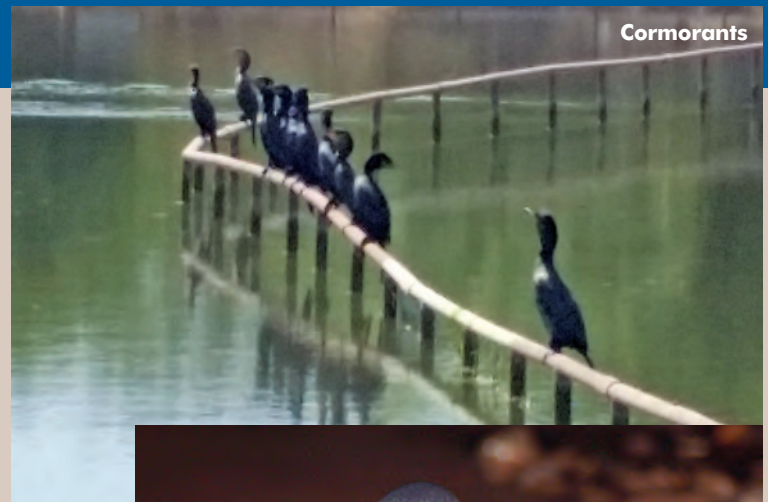
The Kino Environmental Restoration Project in Tucson has brought about a multipurpose stormwater harvesting project where the practical and the aesthetic are blended together.

Located on 155 acres of what used to be flood plain storm runoff, the complex has five different environments ranging from uplands to open water (that includes a 5-acre, 50-foot-deep pond), riparian communities, wetlands, and a mesquite bosque. A big chunk of the acreage (over 90 acres) includes a basin berm and flood control structures.

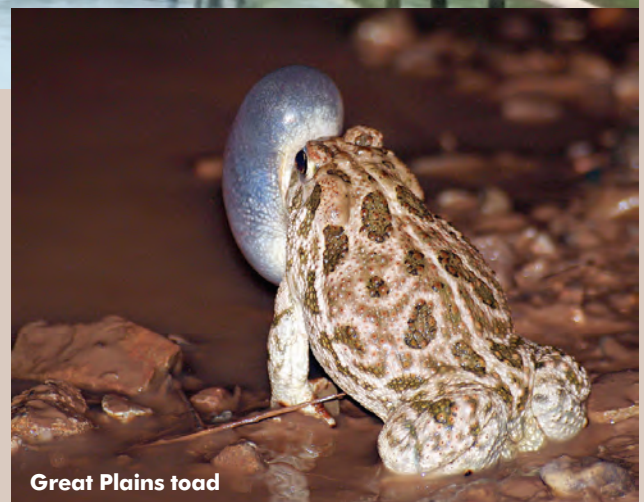
And as might be expected, having wetness in a dry climate is a big attraction for sightseers, primarily of the birder and flora/fauna types. The Tucson Audubon Society likes this place so much they schedule birding field trips there.

Upland birds are numerous with red-tailed hawks, Gambel’s quail, curve-billed thrashers, cactus wrens, and the ubiquitous roadrunner being the most prevalent in that group, although the open water, riparian wetlands, and shady bosques hold dozens of other varieties.

Bird watchers, as well as walkers, joggers, and bicyclists, like to view flying critters and other wildlife along the 2.2-mile paved trail.



**Cormorants**



**Great Plains toad**

PHOTOGRAPHY BY DENNIS CALDWELL

Storing and reusing stormwater in lieu of pumping groundwater or using reclaimed water or any other source is somewhat unique to the Southwest.

"We're the smart kids on the block because we looked at stormwater from a different perspective and were willing to take the risk in building this collection/distribution basin," says Suzanne Shields, P.E., director of Pima County Flood Control. "Detention basins aren't new, but what we've done and how we've configured it to capture rather than lose the liquid makes it unique. We even had to file for the water rights of the natural runoff that has increased because of urbanization."

### Flood control

Located in a generally arid environment with an average annual rainfall of about 11 inches, when summer storms do come, they arrive so fast and hard that the desert soil can't absorb more than a small percentage. And as the rains continue to fall, they gather in speed and intensity, overflowing washes and arroyos with walls of water, necessitating a need for some kind of flood control.

"In general, from the start of the annual rainy season in July through the spring of the following year, the entire complex is watered by runoff. In addition to the flood control benefits of modifying a storm's first flush and the neighborhood natural enhancement, stormwater goes into two ponds (ingeniously named Big Pond and Small Pond) that is then pumped out as needed," Shields says. "It's built; it's working; and we've proven it does the job and does it well."

Building dams to hold that runoff isn't really an option because of numerous earthquake fault lines that run through the area. "It's a gravity-fed system," Becker says. Stormwater flows through the main channel into Big Pond with a connector pipe to fill Small Pond. "That stormwater sustains the entire complex. In the last 10 years, we've used reclaimed water in this facility just twice, and one of those two times, it was only for a day. I'm not sure the county could afford to run this complex if it couldn't get this water."

An extensive pumping system mixes and circulates stormwater (and, if truly needed, reclaimed water) within the basin. The rainy day offerings are cleaned of sediment and floating debris, then parked in a lined storage pond.

Water is circulated along three stream courses that drain into the ponds, and cooler water is pumped from the bottom of the pond to improve quality and aid with mosquito vector control.

### Model project

The size and scope of the project are part of what has made it so effective.

Among the facts and figures:

- There are 15,000 linear feet of piping (ranging from 4 to 42 inches in diameter) to support the stormwater harvesting, flood discharge, irrigation, and recirculation needs of the site.

- The intake pipe is a 30-inch epoxy-coated steel pipe within a concrete encasement at the bottom of the pond, a depth of 65 feet below the pumps.
- There are 850,000 square feet of 40 mil HDPE liner installed under the KERF pond and stream areas.

Although regional geologies differ, engineers from elsewhere with similar topographies have expressed interest in the project construction and application.

"Researchers from all over the world, like Mexico, China, and Romania, have come to visit what we've built," Shields says with a modest smile. "Essentially the Kino Environmental Restoration

**"That stormwater sustains the entire complex. In the last 10 years, we've used reclaimed water in this facility just twice, and one of those two times, it was only for a day."**

Jennifer Becker

Project represents flood control, a needed source for more water and one that brings in urban wildlife and supports all kinds of recreation — all at a savings to taxpayers." ♦

**MAKING CIPP HISTORY**

**MASTERING THE ART OF ONSITE WET-OUTS**

**Inliner®** expertise and skill is visible above-ground, too. Our experience and proven techniques working around complex, high-traffic areas give you confidence that everything will flow smoothly on the surface, while we correct the pipe conditions below. **With 20 years of innovative solutions and 30 million feet of CIPP** in the ground, Inliner Technologies is writing the history book, with CIPP solutions cured with water, air or UV light.

**ADVANCING AMERICA'S WASTEWATER INFRASTRUCTURE RENEWAL.**

When you specify Inliner Technologies, you get the confidence that comes with decades of innovation, process improvement and practical experience.

Contact us today to find licensed contractors in your area.  
**812.723.0704 | Inliner.com**

**inliner**  
technologies™

©2018, Inliner Technologies, LLC

**VIVAX**  
**METROTECH**

# Above the Rest Underground



### vCam-6 HD Inspection Camera

Inspect pipes from 3" to 8" up to 400 feet in length with the vCam-6 HD Inspection Camera

- 1080p HD resolution
- One touch video recording
- Voice-over and text-over video



### VM-585 Utility Locator & Ferrous Metal Detector

Detect buried ferrous metal objects and locate buried utilities with the VM-585 Metal Detector and utility locator.

- Combination metal detector and utility locator
- Push button depth readout



### Spar 300 Underground Utility 3-D Survey

- Non-walkover locator system
- Underground utility asset survey
- Real time depth of cover
- Compatible with Trimble™ utility mapping software

Call us to schedule an on-site no obligation demonstration (800) 446-3392

Vivax-Metrotech Corporation  
3251 Olcott Street,  
Santa Clara, CA 95054, USA

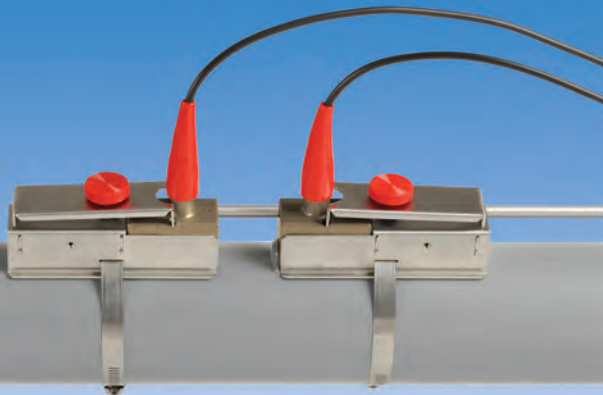
Toll Free: 800-446-3392  
Phone: +1 (408) 734-1400

Email: sales@vxmt.com  
[www.vivax-metrotech.com](http://www.vivax-metrotech.com)



# Non-Contacting Ultrasonic Flow Meter

weftec | 2018  
Booth 5949



Measure flow of clean liquids  
from the outside of pipes

**Greyline**  
Precision Flow Measurement  
An ONICON Brand

[www.greyline.com](http://www.greyline.com)  
888-473-9546





# AMERICAN

## Sewer Parts & Cleaning

Visit  
[AmericanSewerParts.com](http://AmericanSewerParts.com)  
Or Call  
800.666.0766  
For A Dealer Near You



**WE WILL NOT BE UNDERSOLD**

# ROOTING OUT SEXUAL HARASSMENT

Compliance training and policies alone aren't enough to curb this insidious misuse of power in the workplace

By Ken Wysocky



**T**oo many organizations try to curtail sexual harassment by just offering compliance training and establishing policies aimed at prohibiting such abusive use of power. But in reality, those steps often enough still fall short, as evidenced by the slew of celebrities and high-level executives outed since last fall by the #MeToo movement.

A better solution requires organizations to perform a considerably deeper dive to get to the core of the problem: corporate cultures that subtly foster conditions for harassment, no matter how comprehensive the compliance training and policies, says Connie Costigan, the vice president of communications for Saba, a global talent-development and management consultant.

"Sexual harassment isn't a compliance issue — it's a cultural issue," Costigan explains. "Certainly it's important to have an approach that includes compliance, but that's only a check box to eliminate risk. To really be proactive,

**We invite readers** to offer ideas for this regular column, designed to help municipal and utility managers deal with day-to-day people issues like motivation, team building, recognition and interpersonal relationships. Feel free to share your secrets for building and maintaining a cohesive, productive team. Or ask a question about a specific issue on which you would like advice. Call editor Luke Laggis at 800-257-7222, or email [editor@mswmag.com](mailto:editor@mswmag.com).

organizations must address the underlying issues of power and culture.

"Training doesn't always help the people who take this sort of power approach because they think the rules don't apply to them," she continues. "As such, training only scratches the surface."

The move toward compliance-based workplaces began in 1998, when two Supreme Court decisions determined that companies could avoid liability in sexual harassment cases if they could prove they provide anti-harassment training. But as it turns out, compliance training raises a fairly low bar for curbing harassment. Companies that rely only on this letter-of-the-law approach essentially are in essence waiting for a harassment problem to get bad enough that some brave employee will actually report it, she observes.

"I don't think that it's an ill-intentioned approach on the part of organizations," she says. "But there's a whole lot of underreporting (of harassment) going on. It's human nature to fear retaliation or not want to rock the boat or get someone into trouble. So the burden for identifying harassment typically depends on a victim coming forward."

Studies back up Costigan's comments. In 2016, for example, a report from the United States Equal

Employment Opportunity Commission estimated that 25 to 85 percent of women have experienced workplace sexual harassment. While that's an admittedly large range, even the low-end figure comes out to an unacceptable one in every four employees. Moreover, the report also noted that 75 percent of harassment incidents aren't reported and 75 percent of harassment victims experienced retaliation after they voiced complaints.

## Identifying trouble spots

So where do organizations start in terms of evaluating their culture? If companies don't already do so, Costigan suggests they collect data to find potential hot spots. Telltale indicators could include high rates of employee turnover (especially among females), poor rates of female promotions and,

of course, high rates of sexual harassment complaints.

But beyond that, so-called pulse surveys — which pose simple, high-level, yet nonthreatening questions that effectively gauge employees' cultural perspectives — also serve as effective tools. Typical pulse-survey questions could ask employees if they feel comfortable in their working relationships with others; do they feel respected; do they feel they can be themselves at work; do they feel comfortable raising concerns to their managers; and so forth.

"Then you can drill down further and ask if they've ever observed or experienced behavior that made them uncomfortable," Costigan says. "You need to look for patterns in the data, perhaps in a certain department or business unit. All this data can give you a sense of where hot spots exist."

It's also beneficial to provide training for unconscious bias, in which people make quick judgments and assessments of people and situations; those judgments are strongly influenced by people's background, cultural environments and personal experiences. Unconscious-bias training helps employees understand their diversity and gender blind spots.

For example, some people unconsciously dismiss proposals made and opinions expressed by females while automatically endorsing those voiced by white males. In addition, some employees might make gender-related comments about gender that, for whatever reason, they don't realize are biased and can easily be misinterpreted as harassment, she explains.

"You want to create a culture where people can say, 'That's not cool — that doesn't sound right to me,' and it's well-received," she points out. "You have to make it OK for people to object and stand up when they see or hear something they feel is inappropriate or makes them uncomfortable."

### Examine the power structure

Unconscious bias against females often is subtly reinforced because in most organizations, males hold the most power, which makes certain cultural problems self-perpetuating. That brings up another important factor in curbing sexual harassment: changing the power dynamics within companies.

"You need to look at where the power is concentrated," Costigan notes. "Just look at your org chart, and then look at potential future leaders. If you have a bunch of people already in power who are assessing future leaders and they're overwhelmingly male, you need to take a look at your talent pool and make it

**"You have to make it OK for people to object and stand up when they see or hear something they feel is inappropriate or makes them uncomfortable."**

Connie Costigan

your organization," she continues. "No one should want cookie-cutter clones

more balanced. Otherwise you're just continuing to build a predominantly male power structure.

"Diversity in thought and leadership makeup is only going to enrich



### INTRODUCING CUSCO'S SEWER JETTER

The underworld can be a dirty place, but Cusco's new Sewer Jetter obliterates blockages to keep you up and running when you need it most. This industry-leading truck performs major cleanups by excavating debris with a 26 ft. boom reach and a 270° boom rotation to reach every clog, every time. Outfitted with quality components and reverse engineered for optimal weight and payload with a superior operator control system, the Sewer Jetter is packed with features and benefits to outlast the competition.



Oversized Waste Tank



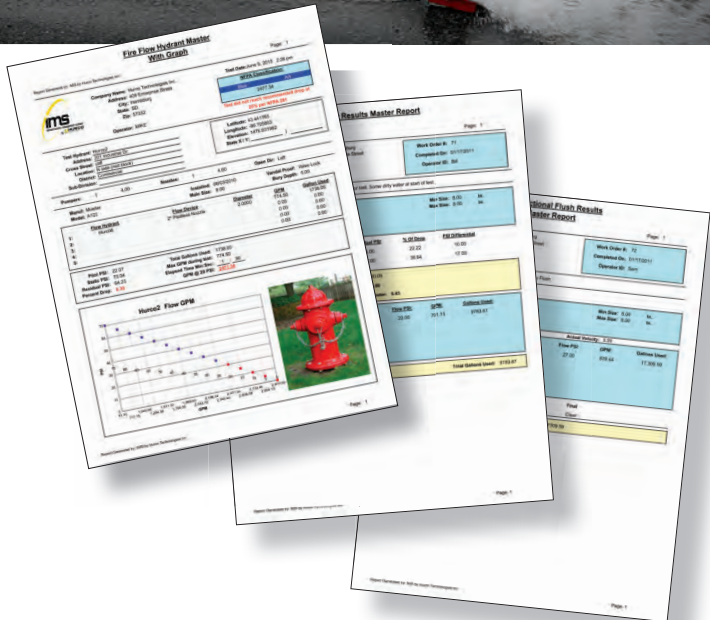
Boom Rotation



Boom Reach



CA Max. Maneuverability



- The most accurate method available for flow testing activities – Utilizes UL certified testing equipment
- Displays real time pressure and flow calculations
- Detailed reports are automatically created
- Options available to suit small communities needing inventory options, to large cities needing GIS solutions

**HURCO** TECH.com  
800-888-1436

who perpetually reinforce everything that’s ever happened in your business. If want to build an organization that can change and evolve, a balance of diversity can only help. And when you even out the distribution of power, you’re far more likely to change the frequency of sexual harassment.”

Companies also can use performance-management protocols to send a strong message about behaviors that won’t be tolerated. In essence, the culture of any organization is shaped largely by the worst behavior management is willing to tolerate, she says.

“Standards for managers’ behavior need to be included in job reviews and assessments,” Costigan emphasizes. “If you want to make sure the right behaviors are being assessed, recognized, and rewarded, you must determine what skill sets and competencies anyone in power needs in order to rise through the ranks.”

**Set the bar high**

In other words, only employees that demonstrate strength in areas such as diversity and inclusion, integrity, empowering employees and equitable treatment should be considered for leadership positions. “Otherwise you send the message that any jerk who’s ill-behaved and makes lewd comments still is going to move up in the organizational ladder,” she says. “It’s up to you to set the standards for your company.”

In short, organizations need to take proactive steps to curb sexual harassment through major paradigm shifts in their cultures, not put the onus on harassed employees to come forward with accusations. “There has never been a time like there is today where we need to identify and root out this kind of cultural behavior,” Costigan concludes. “It puts organizations at risk and doesn’t allow them to fully tap the potential of their employees because it creates an environment where people don’t feel safe, respected or engaged. And that’s just not a place where people want to work.” ♦



**WHEN WASTING EARTH’S MOST PRECIOUS RESOURCE ISN’T ACCEPTABLE**

*You choose Singer’s leakage management valves.*

Water conservation products designed for the health of our planet.



VISIT US TODAY!  
SINGERVALVE.COM



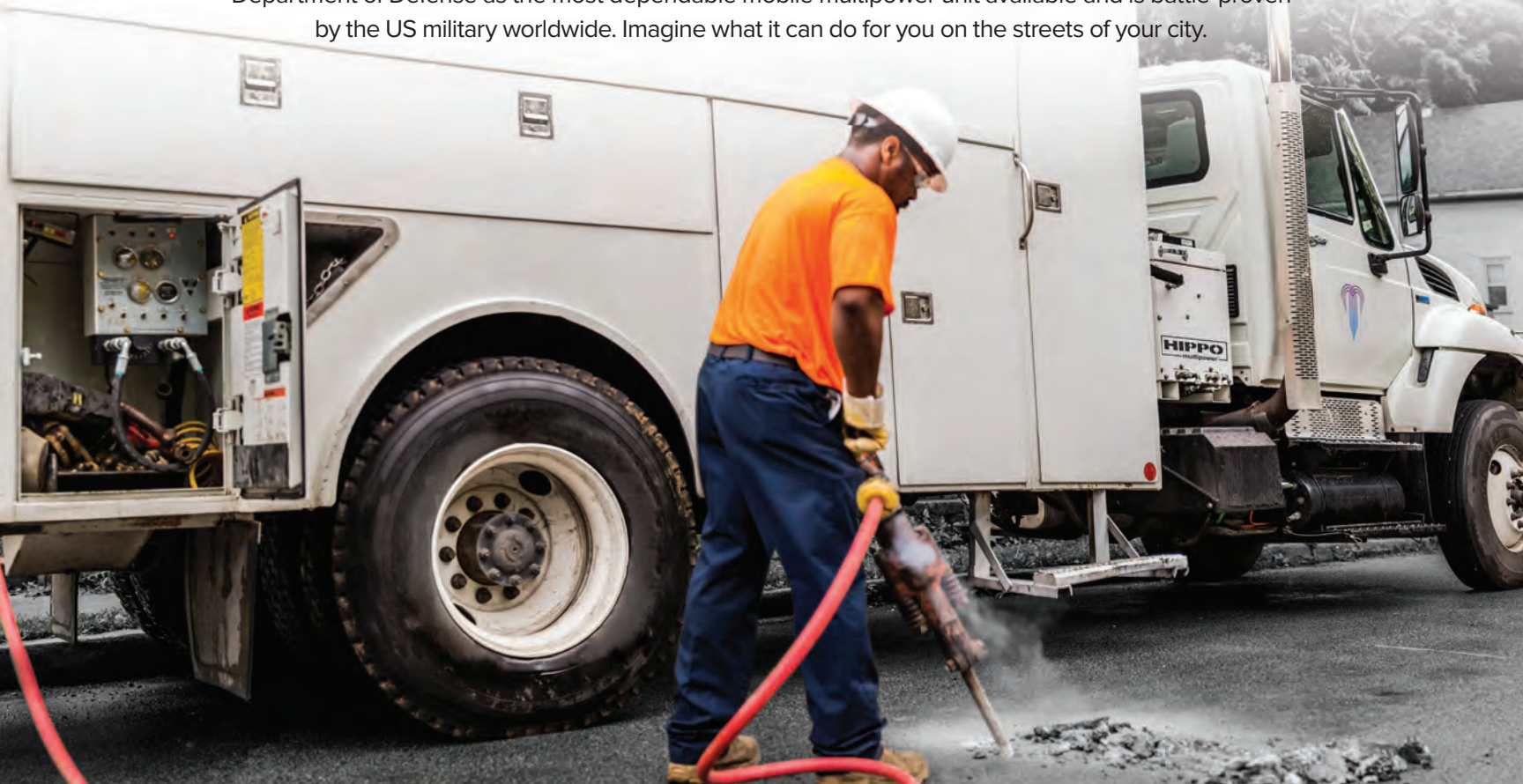




## ANSWERING THE CALL OF DUTY

When your city crews hit the streets to make repairs, they need all kinds of reliable mobile power to get the job done. Until recently, that meant dispatching multiple trucks or tow-units, adversely affecting worker productivity and already taxed municipal budgets.

**HIPPO Multipower** units change all of that by equipping city vehicles with up to four sources of power in one unit: hydraulic, air, electric and welding. And the reliability? **HIPPO** has been selected by the Department of Defense as the most dependable mobile multipower unit available and is battle-proven by the US military worldwide. Imagine what it can do for you on the streets of your city.



HYDRAULIC



AIR



ELECTRIC



WELDING

Request a live demo at [HippoMultipower.com](http://HippoMultipower.com) or call 800.844.0624.



## The 7 SEWERIN Summits for professional Water Leak Detection

Hermann Sewerin GmbH | Office +1 888 592 9916 | Cell +1 888 592 9916 ext. 102 | sewerin-usa@sewerin.net | www.sewerin.com

ENGINE DRIVEN   DIAPHRAGM   HIGH PRESSURE/FIRE   SELF PRIMING ELECTRIC   STRAIGHT CENTRIFUGAL   HVAC/BOOSTER   COOLANT   SUBMERSIBLE   DRUM PUMPS

**AMT**  
A Gorman-Rupp Company



*The Pump People.*

Please visit us at [www.amtpump.com](http://www.amtpump.com)

ENGINE DRIVEN   DIAPHRAGM   HIGH PRESSURE/FIRE   SELF PRIMING ELECTRIC   STRAIGHT CENTRIFUGAL   HVAC/BOOSTER   COOLANT   SUBMERSIBLE   DRUM PUMPS

# PORTABLE.

# POWERFUL.

# PRODUCTIVE.

**NEW!**



**PATHFINDER**  
INSPECTION SYSTEM

## VERSATILE MAINLINE INSPECTION

The lightweight and rugged Mobile Pathfinder is easy to transport and set up. An all-in-one controller with an 8.4-inch LED screen ensures quick and efficient assessments.

This compact, integrated system features:

- Aircraft-grade aluminum reel with 1000 feet of lightweight cable
- Quick set-up for pipes from 6- to 36-inch and larger
- Pan & Tilt camera with self-cleaning lens & electric lift

Contact Aries to learn how the Mobile Pathfinder can improve your productivity.



All-in-one  
controller

**ARIES**  
INDUSTRIES, INC.

See what you're missing.

[ariesindustries.com](http://ariesindustries.com)  
(262) 896-7205

© Aries Industries, Inc.

# MAPPING THE FUTURE



Fond du Lac Water Utility water distribution maintenance crew members Rob Scheeler (left) and Kevin Speerf work on replacing a lead water service line with new poly pipe at a residential location. (Photography by Mike Roemer)



## Wisconsin utility's GIS mapping and other next-generation upgrades boost system performance

By Jared Raney

**T**echnology can be daunting, but the city of Fond du Lac, Wisconsin, is learning to let it work for them, simplifying day-to-day management of their water utility.

The city's water utility has been around since 1885, and much of the original system is still in service today. But the Fond du Lac Water Utility is striding toward the future with major initiatives like a proactive lead replacement program, GIS mapping and implementing automated systems.

### A complex system

In recent years, the city has experienced its fair share of leaks and main breaks: an average of about 70 breaks per year for the last five. They haven't measured nonrevenue water lost through leaks, but it's on their list.

"Maintaining the infrastructure is always a challenge," says Travis Kloetzke, water utility general manager. "Keeping everything operational and functioning properly is a challenge."

**"One of our biggest challenges is just aging infrastructure as a whole. We do have mains that date back to the 1800s, although it seems not necessarily the oldest mains cause the most problems."**

Travis Kloetzke

The system, which serves around 16,000 customers, consists of 224 miles of pipe, with 3,000 valves and almost 1,800 fire hydrants. Four treatment plants capable of producing 15 mgd distribute an average of 4.5 mgd over a 20-square-mile service area.

"One of our biggest challenges is just aging infrastructure as a whole. We do have mains that date back to the 1800s, although it seems not necessarily the oldest mains cause the most problems," Kloetzke says.

Throughout its history, Fond du Lac has tried nearly every type of common pipe material — from lead to copper, then

“A lot of people don’t even understand that they have a lead service. They just know that they turn the water on in the kitchen and it comes out.”

Travis Kloetzke



**PROFILE:**  
Fond du Lac (Wisconsin)  
Water Utility

**FOUNDED:**  
1885, taken over by city in 1911

**POPULATION SERVED:**  
43,000

**AREA SERVED:**  
20-mile radius around Fond du Lac

**WATER SYSTEM:**  
11 miles of raw water main, 213 miles of distribution pipe, 17 wells, 4 treatment plants, 6 booster pump stations

**ANNUAL OPERATING BUDGET:**  
\$10 million operating budget,  
\$2 to \$3 million in capital improvements

**NUMBER OF STAFF:**  
18 in water department

**WEBSITE:**  
[www.fdl.wi.gov](http://www.fdl.wi.gov)

cast iron, ductile iron, polywrapped ductile iron, and finally polyvinyl chloride.

The combination of a fluctuating climate with acidic clay soils made problems for all but a few kinds of pipe. The acidic soils are corrosive, causing pinhole leaks in copper and degrading joints in ductile iron; extreme weather causes a lot of ground movement — frost heave in winter, and shrinking clay in summer heat — which means cracking in cast iron mains. Copper and iron pipes with projected life spans of 70 to 80 years are having problems after 50 to 60. Today they use all PVC.

Even though many of the oldest pipes are in great shape, they are also made of lead. From approximately 1885 to about 1920, the city was exclusively installing lead pipes.

Rob Scheeler makes a connection on a new residential water service.

**Get the lead out**

One proactive effort the city has undertaken is a public outreach campaign called “Get the Lead Out.”

“The goal there is to remove all the lead services within the city,” Kloetzke says.

Fond du Lac has not experienced any lead issues so far, but with the current national attitude, it has become a priority.

“I think the catalyst for the lead talk in general has really been Flint, Michigan. It seems like since that unfolded, the talk of lead has been more and more, and I don’t think it’s going to go away,” Kloetzke says. “We do sample lead annually — we do two sets of 60 samples every

*(continued)*



# ***Tight Space Specialist***

## **The Power-Vee® with Power Cable Feed**

When a drain cleaning job puts you in a tight spot, using the Power-Vee is like having an extra hand to make the job easier. Just squeeze the feed lever and the cable spins into the line. Retracting the cable is just as easy.

This compact tool feeds tough Flexicore® cables at up to 16 feet per minute. Convenient quick-change cartridges make cable switching quick, clean, and easy.

It's time to upgrade from manual feed machines. Have a Power-Vee ready for your next tight spot. It puts power in the palm of your hand.

Call the Drain Brains® at 800-245-6200 or 412-771-6300, or visit [www.drainbrain.com/powervee](http://www.drainbrain.com/powervee).



# ***General*** **PIPE CLEANERS**

***The toughest tools down the line.™***



MADE IN USA

© General Wire Spring 2018



The Fond du Lac water distribution maintenance crew includes (from left) Kevin Speerf, Chris Semenas, General Manager Travis Kloetzke, Chris Wendler, Craig Weiese and Rob Scheeler.

year. Historically we have not exceeded the level set by Wisconsin Department of Natural Resources, so currently we have not had any lead issues; this is a proactive effort.”

The program, encompassing 4,500 lead services in the city, began in 2017. Lead service replacement had taken place before that on the public side, but with funds from the Safe Drinking Water Loan Program, they have expanded the program to include private-side services.

With the grant, they were able to offer up to \$2,000 or 50 percent of the private-side repair through 2017. Around 25 to 30 customers took advantage of the subsidy, and Kloetzke says the list of volunteers is already a lot higher than that for 2018, thanks in part to increasing the subsidy to \$3,000.

The average cost of a private-side lead pipe replacement was \$3,300 in 2017.

“We want to stretch that money out. It’s good for three years, and we want to keep that going and be able to supply it and provide it to those prop-

erty owners for the next three years here.”

The state Legislature recently passed a bill that allows the city to subsidize projects like this with loans and grants from ratepayer dollars, so Kloetzke says the city is hoping to continue funding the project even after their loan money runs out.

For the time being, lead service replacements are only taking place during emergency repairs and larger annual construction projects. Services are not actively slated for replacement at this time.

“A lot of people don’t even understand that they have a lead service. They just know that they turn the water on in the kitchen and it comes out. So that’s kind of where the problem lies — to educate the public and try to get them to invest money into their own water service to remove the lead,” Kloetzke says.

### Map for the future

Another ambitious project that’s been in the works for seven years is finally reaching fruition.

Using ArcGIS from Esri, Fond du Lac built a

GIS map of its entire system using old historical records.

“We didn’t really have good computer records of all the water mains,” says Chad Churchill, the water utility engineer who spearheaded the GIS project. “We had really good attribute data: historic numbers and quantities that would get carried over year to year, just in a file cabinet, paper copies, but we really didn’t have a visualization of all the data. So we worked to recreate all that data by digitizing and interpreting historic construction plans.”

Though it was a long process, the new GIS

### FEATURED PRODUCTS FROM:

**Badger Meter**  
877-243-1010  
www.badgermeter.com

**PRO-TEC  
Equipment, Inc.**  
800-292-1225  
www.pro-tecequipment.com

**Esri**  
800-447-9778  
www.esri.com

 To learn more about the Fond du Lac (Wisconsin) Water Utility, take a look at a video profile at [www.mswmag.com](http://www.mswmag.com).





**Water utility engineer Chad Churchill shows how GIS mapping is used to track Fond du Lac Water Utility's assets.**

map has come in handy on many projects, especially in locating shut-off valves quickly on water main breaks. The maps are accessible on field workers' smartphones and tablets.

"We've been utilizing that technology pretty heavily in the last two years, and I would imagine in the future here we're going to keep using it, as we keep coming up with better ideas on how to utilize it," Kloetzke says.

The biggest benefit so far has been using the GIS to dictate replacement schedules for problem pipes. By inputting data on past main breaks, they've been able to pinpoint the system's weak points.

"Up until now, our whole main replacement has been based on age. Basically we target the oldest main first, and that's misleading because it's not necessarily the oldest main causing you the most problems," Kloetzke says. "With that GIS data, we'll be able to analyze that and allocate our maintenance money where it's going to give us the biggest bang for our buck."

They are also looking to the future with automated technology.

Already they've installed advanced metering infrastructure from Badger Meter, providing instantaneous water consumption reports from all the system's customers. Utility officials hope to integrate their AMI, SCADA and GIS systems to become a comprehensive next-generation water utility.

"Taking all three of those and putting them together, you can almost have a live water-loss report: This is what we're pumping and treating, but this is what we're actually selling," Kloetzke says. "Having the meters in there also gives us access to the customer information, to potentially have that automatic notification go out stating that there's a main break in your area and your service could be disrupted."

### Worth the effort

It's easy to look ahead at the challenges of

implementing new technologies and hesitate, but in the end, the results speak for themselves.

"There's quite a lot of efficiencies with technology," Churchill says. "Obviously technology continues to improve from year to year, and there are new ways to gather data, so we've implemented a lot of new applications, new tools. It has really increased the effi-

ciency and the usefulness of that data; that then drives future maintenance cycles.

"It frees up time that used to be spent on maintaining these models; now we can do analysis on the models. We're gathering that data, and then we're bringing it back to this model so that we have a more complete picture of our system. As the old adage goes, 'A picture is worth a thousand words.'" ♦



1,000,000  
Installed!

Point Repair  
That Solves  
Infiltration

Pushed in by your crawler and expanded with air, a Quick-Lock sleeve delivers structural trenchless sewer repair with heavy-gauge stainless steel and stops infiltration with a one-piece rubber gasket. It installs in minutes with two people and minimal equipment.



~~digging  
resin • pot life  
wet-out • cure  
bypass pumping  
wash-outs~~

Quick-Lock is also offered as an end sleeve to protect installed CIPP liners.

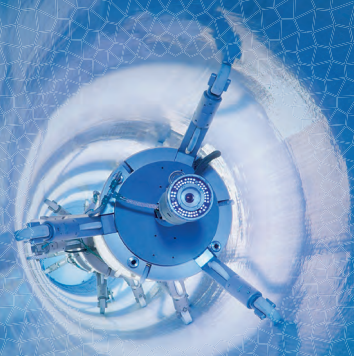




for on-site demo, visit [www.pipelinert.com/ql](http://www.pipelinert.com/ql) or call (866) 936-8476

infiltration • offsets • roots • abandoned laterals • holes • cracks

# The UV Cured **SAERTEX-LINER**<sup>®</sup>: Next Generation of GRP Liners!



**SAERTEX**  
*multiCom*<sup>®</sup>

**High Strength GRP Liner for Sewer, Pressure and Water Pipes**

SAERTEX multiCom LP | 12200 - A Mt. Holly-Huntersville Rd. | Huntersville, NC 28078 | USA | Phone: +1 317 464-9717  
Fax: +1 704 464 - 5922 | E-Mail: [multicom@saertex.com](mailto:multicom@saertex.com) | [www.saertex-multicom.com](http://www.saertex-multicom.com)



**USB-USA Is NOW OPEN**  
to Fulfill All Your  
**Sewer Cleaning Nozzle**  
and **Root Cutting Needs!**

We focus on offering **high quality** sewer cleaning equipment that is **reliable**, highly **efficient** and **powerful** but most importantly **affordable**. Our innovative products are designed and manufactured by USB-Duesen in Germany and distributed throughout the globe. USB-USA's product line includes sewer cleaning nozzles with 3D fluid mechanics, Turbo Chain Cutters for root cutting and other accessories.

**USB-USA services and repairs all USB equipment.**



Contact Us Today!

1-844-285-5770 | Fax: 678-649-1766 | [info@usb-usa.com](mailto:info@usb-usa.com) | [www.usb-usa.com](http://www.usb-usa.com)



THE WORLD'S LEADING CIPP LINERS,  
**REINFORCED**  
WITH PERSONAL CARE.



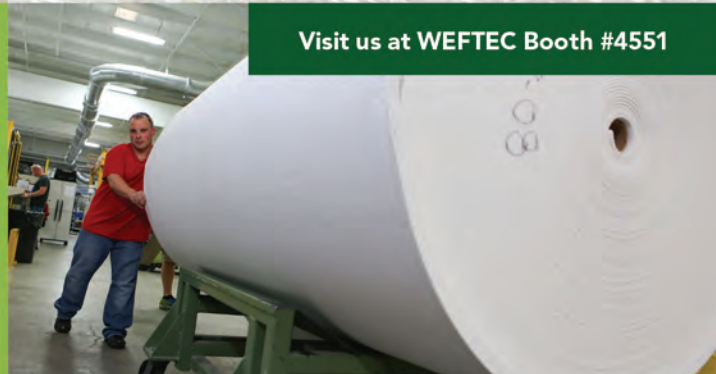
Applied Felts uses innovative technology for the precision manufacturing of our custom, quality felt and reinforced cured-in-place liners for gravity sewer, pressure pipe and potable water applications. Our liners are world-class, but it's the people behind the product that make Applied Felts a global leader. With over 200 million feet of successful installations around the world, our personalized care and close attention to the smallest of details—from using only the highest quality raw materials, manufactured with our state-of-the-art equipment, to our rigorous 28-stage QA/QC testing program—help our customers grow right along with us. **Visit [appliedfelts.com](http://appliedfelts.com)**

Visit us at WEFTEC Booth #4551



**APPLIED FELTS**

YOUR SUCCESS IS OUR SUCCESS™



# A VIEW FROM ABOVE

Satellite-based technology helps water utilities find and fix distribution and transmission leaks more cost-effectively

By *Ted J. Rulseh*

**L**eaks from drinking water systems cost money. So do leak detection and repair programs.

The trick to dealing with leaks is to find the method that delivers the best possible return on investment. A variety of leak detection tools and methods are deployed with success at water utilities of many sizes. Now, Utilis adds a new layer of technology that can help make those tools more cost-effective to deploy.

The company has devised a method for detecting leaks in water distribution and transmission networks from outer space. The technology is based on analysis of images captured by a satellite-mounted radar system and sensor. The company says its method, used in tandem with traditional acoustic devices, can triple leak detection efficiency.

The technology requires no upfront investment in equipment and can significantly reduce field labor. It enables priority leaks to be targeted and addressed quickly. Utilis CEO Elly Perets talked about the technology in an interview with *Municipal Sewer & Water*.

**MSW: What is the history behind this technology?**

**Perets:** Utilis was founded in 2013 and has been operational for the last three years. The idea came from our chief technology officer and founder Lauren Guy, who was studying for his master’s degree in atmospheric physics and dynamics and was using remote sensing to find underground water on Mars and Venus. Since we have so many water-related problems right here on Earth, he decided to apply that same technology to help find underground water here.

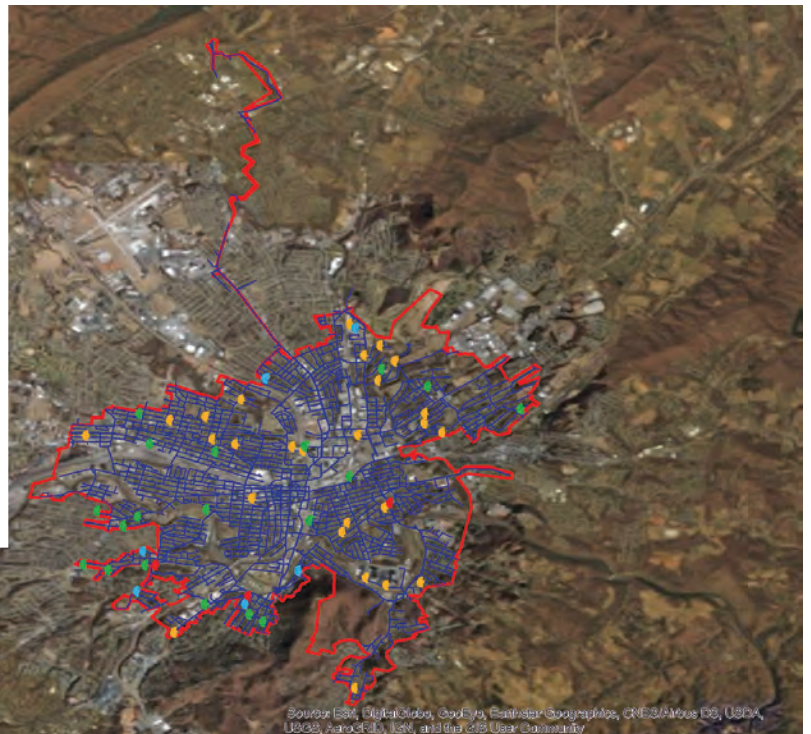
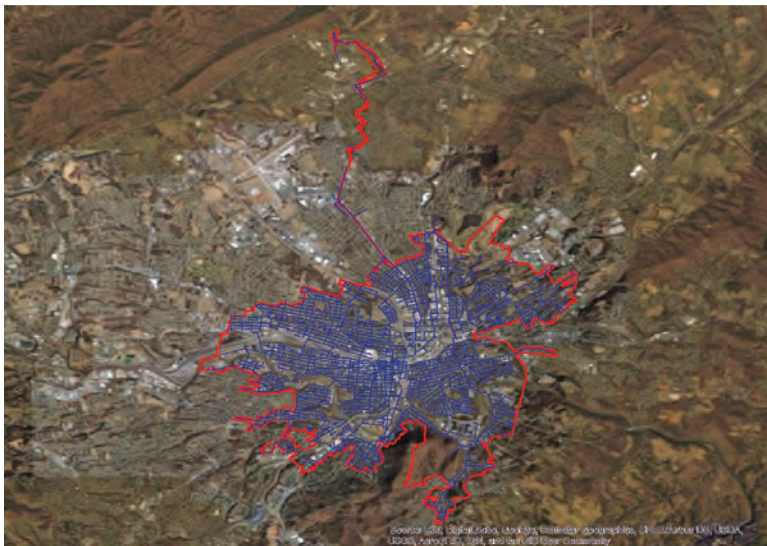
**TECH CLOSE UP**

**PRODUCT:**  
Utilis

**MANUFACTURER:**  
Utilis  
858-382-7066  
www.utiliscorp.com

**APPLICATION:**  
Detecting leaks in water distribution and transmission networks from outer space

**BENEFITS:**  
No upfront investment in equipment and can significantly reduce field labor



Above: A GIS map of a water utility distribution system. Right: The same distribution system overlaid with likely leak locations as detected by a satellite-mounted radar system. Locations are color-coded according to leak probability.

**“Our solution helps utilities reduce nonrevenue water. It can pinpoint as many as hundreds of possible leaks in a single project, and it can be much more time- and cost-effective than traditional leak detection methods.”**

**Elly Perets**

**MSW: What is the practical benefit of the Utilis technology?**

**Perets:** Our solution helps utilities reduce non-revenue water. It can pinpoint as many as hundreds of possible leaks in a single project, and it can be much more time- and cost-effective than traditional leak detection methods.

**MSW: How does this technology save time and money over acoustic listening and other conventional methods?**

**Perets:** First of all, satellite leak detection methodology does not substitute for traditional acoustical leak detection. Depending on the size of the distribution system, we deliver to our clients dozens or hundreds of possible leaks that may be happening in the system. So instead of an acoustic leak detection team going through the entire system, walking 2 1/2 to 3 miles a day, they simply go to specific points that we’ve delivered, saving time and money.

**MSW: In basic terms, how does the satellite-based technology work?**

**Perets:** The satellite orbits about 400 miles above the surface. It carries a radar that sends microwaves to Earth in a specific wavelength and frequency that can penetrate the ground. Every single object reacts to microwaves and sends back a signature that is received by a sensor. We look for the signature of treated water that is gushing out of a pipe and in contact with soil, thus creating chemical reactions. That is what the satellite picks up.

**MSW: How is all this data sorted and analyzed?**

**Perets:** Once we have an image formed, we do many things. We do georeferencing and we clean out many types of noise, because the satellite image picks up not only water but also vegetation, buildings and man-made objects in general. The last part of process is to input that image into an algorithm that we developed. We pick up all types of water: treated water, high water tables, sewage and seawater. We filter out everything that is not treated water in contact with soil and deliver the finished image to the client.

**MSW: Can the technology differentiate large leaks from small leaks so that utilities can set repair priorities?**

**Perets:** We pick up leaks as small as 0.1 liter per minute (0.026 gpm), but our reports do not distinguish between small, medium, and large leaks. We deliver to the client a GIS map with a grid code where we identify the leaks according to probability: red is the highest, then yellow, then green, and then blue is the lowest probability. The color indicates how strongly we picked up the signal of treated water in contact with soil, but that doesn’t indicate the size of the leak. A big leak running for two days can give the



**Special Events at WEFTEC!**

Visit us at WEFTEC 2018 **Booth #1517** for our 'Chopper Pump Maintenance 101' class! Full schedule at:  
[Chopperpumps.com/WEFTEC18](http://Chopperpumps.com/WEFTEC18)

## RELIABLE FLOW ON THE GO

FEATURING THE ORIGINAL CHOPPER PUMP

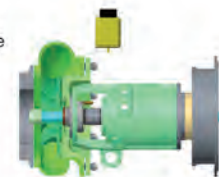
Vaughan's Portable Bypass Trailer units are heavy duty trailers that provide unmatched reliability, anywhere. Available with Vaughan's signature Chopper Pump and Triton "Screw" Pump, this unit can be used for tough solids reduction applications or low shear solids handling. Powered by diesel or electric drive motors, this trailer is ready for the toughest jobs in any location. Contact us to see what we can do for you.

**PUMP OPTIONS:**

- Dry Prime Horizontal End Suction Chopper Pumps in 3"-16" models
- Dry Prime Horizontal End-Suction Triton Screw Pumps in 3" to 12" models
- Wet Prime Self Priming Chopper Pumps in 4"-10" models

**FEATURES:**

- Open or enclosed "sound attenuated" options available
- Constructed with Vaughan Co.'s proprietary Mechanical Cartridge Seal
- Seal Oil Reservoir for dry-run scenarios
- Digital Control Panel
- Diesel, Hydraulic, or Electric Drive motors
- Skid Mount Available



Contact Vaughan to get moving today.

[ChopperPumps.com](http://ChopperPumps.com) | 360.249.4042 | [info@chopperpumps.com](mailto:info@chopperpumps.com)





## Pressure Washers & Drain Jetting Equipment

**We Custom Build  
Machines To  
Your Specifications!**

800-648-5011

[www.camspray.com](http://www.camspray.com)

[sales@camspray.com](mailto:sales@camspray.com)

Van and Truck Mount Models Available  
See All The Features And Specifications At [CamSpray.com](http://CamSpray.com)

### STB Series Trailer-Mounted Drain Jets



- DC-Powered Jet Hose Reel and 4-Nozzle Set
- Pressure Gauge & Hour Meter
- Electric Start with Low Oil Shutdown
- Pumps Handle Fluids Up To 160°
- Lockable Tool and Storage Boxes
- 150' Garden Hose on Manual Reel
- 300 Gallon Tank with Low Water Shut Off
- Gearbox Drive Triplex Plunger Pump with Ceramic Plungers and Stainless Valves
- Trailer with Industrial Painted Finish and 15" Aluminum Wheels

#### STB4012K \$18,999

- 12 G.P.M. @ 4000 PSI
- 999 CC Kohler • 400' x 1/2" Hose

#### STB3015K \$18,999

- 15 G.P.M. @ 3000 PSI
- 999 CC Kohler • 400' x 1/2" Hose

#### STB2712K \$13,499

- 11.5 G.P.M. @ 2700 PSI
- 689 CC Honda • 400' x 1/2" Hose

#### STB3708K \$13,299

- 8 G.P.M. @ 3700 PSI
- 689 CC Honda • 300' x 3/8" Hose

#### STB4007K \$13,299

- 7 G.P.M. @ 4000 PSI
- 689 CC Honda • 300' x 3/8" Hose



### TT4025HZ-35 \$52,995

- Produces 25 Gallons Per Minute at 4000 PSI
- 74 HP EPA Tier 4 Final Compliant Hatz Turbo Intercooled Diesel Engine
- Hydraulic Slide Out Swivel Reel with 500' x 5/8" Hose
- Air Purge Valve and 18 Gallon Anti-Freeze Tank and Freeze Protection
- Heavily Constructed Trailer with 2" x 4" Steel Tube Box Frame
- 26 Gal Fuel Tank Gives Hours of Run Time on a Single Fill
- Wireless Remote to Control Throttle Up and Down, Water Valve and More
- 350 Gallon Tank with 2" Hydrant Fill
- Features 150' Wash Down Hose and Front-mounted & Over-fender Tool Boxes

# MORE?!



More Stories at [MSWmag.com/featured](http://MSWmag.com/featured)

See what's not in print!

same signal as a very small leak running for three years. However, because our map shows the areas of highest probability, customers can attack those areas with the expectation of finding most of the leaks there.

#### MSW: What kind of orbital pattern does the satellite follow?

**Perets:** The satellite orbits the planet in a polar orbit about two dozen times every day. It covers the same swath of the Earth every two weeks. So if we took one image of New York City today, the next time we could get one covering an identical swath of area is two weeks later. One satellite frame can give us a 50- by 70-kilometer image, which is 3,500 square kilometers, or 1,200 square miles.

#### MSW: Once you contract with a utility to do this, how is the offering structured?

**Perets:** It differs for every customer and the price is based on the length of pipeline they want to monitor. We do provide single surveys, but most customers need a service contract, as leak detection is an ongoing issue.

#### MSW: How would you characterize the customer response so far?

**Perets:** Customers like it because we pinpoint not just leaks that have surfaced, but also background leaks — those that most likely wouldn't be found without our tool. Some leaks are in locations where acoustic listening is difficult or come from plastic pipes. Normally, we can deliver many more leaks and do so much faster than acoustic leak detection. We have served more than 100 utilities in 26 countries. We do not have to prove anymore that our technology works. It has already become part of the utility toolbox. ♦

**Durable Gear for Extreme Conditions**

20 QT - \$149.99

45 QT - \$199.99

60 QT - \$239.99

75 QT - \$299.99

COLOR OPTIONS: SNOW, SAND, SURF

100% REPLACEABLE PARTS

5 YEAR WARRANTY

MAXIMUM ICE RETENTION

**RUGID**

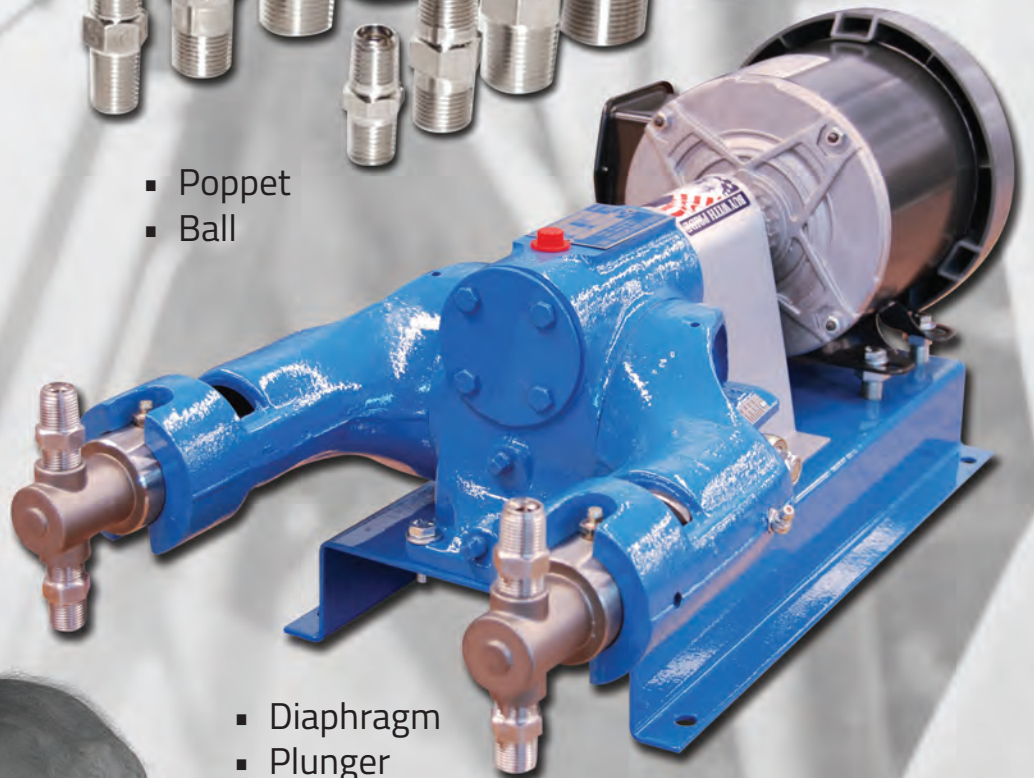
833-777-8443  
[RUGIDGear.com](http://RUGIDGear.com)

AMERICAN-MADE CHECK VALVES & METERING PUMPS

# TRUSTED BY GENERATIONS FOR GENERATIONS



- Poppet
- Ball



- Diaphragm
- Plunger
- Hi-Flo

**JAEACO**  
FLUID SYSTEMS, INC.

[www.jaecofs.com](http://www.jaecofs.com)

100 Quaker Lane ■ Malvern, PA 19355  
Phone: 610-407-7207 ■ Fax: 610-240-4906

# CLAMP DOWN ON INVENTORY COSTS!

That's right! The Quick Cam® Rapid Seal Repair Clamp features a double range body, allowing a substantial reduction in inventory. No need for extra on-hand sizes for repairing breaks, holes and splits in water and sewer piping.

But that's not all. Check out these features:

- ✓ High Performance = Bigger Safety Factor
- ✓ Slide On -Slide Off Lugs = Low Profile Under Pipe
- ✓ Stainless or Ductile Lugs = Your Choice
- ✓ Rapid Seal = Faster Stop of Leak and Easier to Install

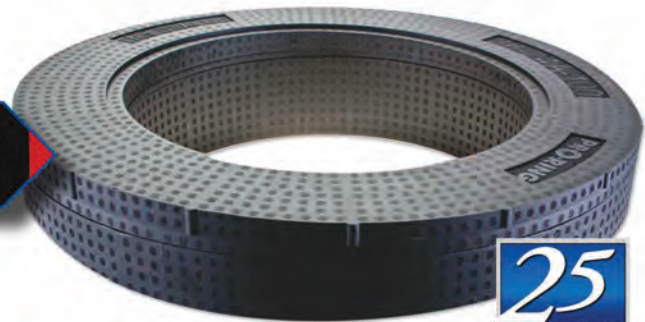
Contact us for complete information.  
Email [sales@tps.us](mailto:sales@tps.us) or phone 716-372-0160.



# THE CHOICE IS EASY



**VS**



## CONCRETE

- Heavy
- No warranty
- Unreliable
- Prone to breakage
- Safety concerns
- Short lifespan
- More expensive over time
- Multiple angles not achievable

*Get the best value in manhole grade adjustment systems....*



## PRO-RING

- Lightweight
- Industry leading 25 year warranty
- Reliable-50 year design life
- High strength & traffic rated
- Safer to install
- Durable
- Less expensive over the long haul
- Variety of heights and angles

weftec | 2018  
Booth 1328

800-345-3764 • [info@cretexseals.com](mailto:info@cretexseals.com) • [www.cretexseals.com](http://www.cretexseals.com)



# THE PIPE THAT FITS IN SO MANY WAYS.



## NovaForm™ PVC Liner

### Styrene Free Structural Liner for Sewers and Culverts.

NovaForm, a new PVC-based structural liner from IPEX, allows municipalities to repair their failing infrastructure while respecting the environment. With Novaform, capturing and treating contaminated curing liquid is a thing of the past. As an engineered thermoplastic, Novaform is installed using steam, and the only jobsite discharge is water.



To learn more, call us toll free at **1-800-463-9572**  
or visit **[ipexna.com](http://ipexna.com)**

Products are manufactured by IPEX Inc. and distributed in the United States by IPEX USA LLC.  
NovaForm™ is a trademark of IPEX Branding Inc.





Inliner project manager Joseph Moya (left) inspects the water boiler and explains the function of the Rush-Overland Generation II heater truck to Steve Simon, the principal engineer and infrastructure planner with Aurora Water. (Photography by Carl Scofield)

# THE RULES OF REHABILITATION

Aurora tackles deteriorating interceptors with a new comprehensive asset management plan

By Giles Lambertson

When a manhole cover is broken, you don't even have to climb out of your service truck to see it. A suspected crack in an underground sewer line is a whole different matter. You can run a camera through the line, but when the cost of a complete inspection is prohibitive — especially for a line that *seems* intact — what

are the alternatives?

This was the dilemma facing Aurora (Colorado) Water Operations and Engineering personnel in 2015. A sinkhole adjacent to busy Peoria Street in the Colorado city announced a leak from a sewer interceptor line buried 30 feet underground. A camera was inserted in the line at the point of the

rupture and water department engineers got a peek at a short section of the 42-inch reinforced concrete pipe. It wasn't a pretty picture.

Concrete had been eaten away by hydrogen sulfide. The corrosive gas produced by the wastewater flow had exposed some of the pipe's steel reinforcement ribbing. A subsequent CCTV examination of the rest of the

*(continued)*

Visit us at **weftec** **BOOTH 3829**



Blue-White  
Is Now  
ISO 9001:2015  
Certified

# ProSeries-M<sup>®</sup>

**PRECISION CHEMICAL DOSING**

**FOR THE TREATMENT OF MUNICIPAL WATER & WASTEWATER**



## MD-3

### HYBRID DIAPHRAGM METERING PUMP

MD-3 DELIVERS A NEW LEVEL OF PERFORMANCE AND FUNCTION IN CHEMICAL METERING.

PRECISE TURNDOWN	✓ 2,000:1
VARIABLE FLOW RATE	✓ .03-58 GPH (.11-219.6 LPH)
VARIABLE WORKING PRESSURE	✓ Up to 145 psig (10 bar)
SMOOTH CHEMICAL DOSING	✓ No Pulsation Dampener Needed
EASY ORDERING	✓ Single Model Number Handles All Your Needs
DIAFLEX <sup>®</sup> EQUIPPED	✓ A Blue-White <sup>®</sup> Exclusive
PATENTED	✓ Multiple U.S. and International Patents Pending



## CHEM-FEED<sup>®</sup> SINGLE AND DUAL PUMP SKIDS

### ENGINEERED SKID SYSTEMS

DESIGNED AND ENGINEERED USING SOLID MODELING TOOLS FOR SUPERIOR QUALITY AND EASY COMPONENT MAINTENANCE.

EASY INSTALL	✓ Drop it in place and make your connections / Wall mountable / Small footprint design
PROVEN COMPONENTS	✓ Vented ball valves, PRV (pressure relief valve), gauge guards, and metal free check valves
FLOW INDICATOR	✓ Provides a visual indication of chemical movement through the system
CALIBRATION CYLINDER	✓ Self filling cylinder, does not require chemical level in supply tank be above calibration cylinder for filling



PRECISION CHEMICAL METERING FOR OVER 60 YEARS  
**Blue-White** [www.proseries-m.com](http://www.proseries-m.com) • [www.blue-white.com](http://www.blue-white.com)  
5300 Business Dr., Huntington Beach, CA 92649 USA • 714-893-8529 • [sales@blue-white.com](mailto:sales@blue-white.com)



“If an inspection and repair extends the life of a pipe tens of years, that can be justified. We feel pretty confident that it is not a prudent investment to expend that much money to inspect our 40-year-old interceptors.”

Steve Simon

Joseph Moya inspects and monitors a 36-inch sewer bypass junction and manhole suction station during a high-pressure test of a sewer bypass line. Three Pioneer pumps pull the flow from the existing sewer line into a bypass pipe in preparation for relining a damaged section of pipe.

40-year-old interceptor line showed the deterioration was pervasive.

### Strategic decisions

The city was not guilty of having ignored its underground infrastructure. It had already launched a CIPP repair program to rehabilitate older sanitary sewer collectors where substantial pipeline defects were found. Nor were water department officials totally unaware of the weakened interceptor lines: The deterioration had been caught on camera inspections. Unfortunately, that information had not been forwarded in a timely way to engineers, a communications breakdown that was fixed.

The larger reinforced concrete interceptors were not being routinely monitored for the simple reason that they are active, high-flow lines. Aurora is home to 351,000 people spread over 154 square miles. Consequently, wastewater flows through the interceptors constantly and at fairly high levels. The flow masks the condition of the pipes below the waterline and precludes taking the pipes out of service for comprehensive inspection.

“It’s a strategic decision,” says Steve Simon, Aurora’s principal engineer for infrastructure planning. “Is it worth the investment to completely inspect a line? You can spend several hundreds

of thousands of dollars just to decide if rehabilitation needs to be done. In some cases, investing to find out the condition of a pipe is justified. If an inspection and repair extends the life of a pipe tens of years, that can be justified. We feel pretty confident that it is not a prudent investment to expend that much money to inspect our 40-year-old interceptors.”

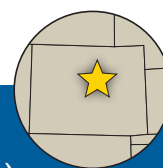
The cost of such inspection is so high in these instances because of the need to divert the wastewater flow so that the entire circumference of the pipe’s interior can be exposed to the camera’s eye. Though the greatest deterioration in a concrete sewer pipe occurs in the upper area where the hydrogen sulfide collects, the integrity of high-flow pipes also is weakened under the surface by turbulence. Therefore, to completely inspect a section of pipe, it must be taken out of service.

Bypassing a line is not a problem when a parallel line has been run nearby for redundancy, but most of Aurora’s large-diameter interceptors do not have parallel lines, so the expensive diversion of sewage through temporary lines is the only option. Simon says the cost of temporarily bypassing a length of interceptor pipe can range from \$100,000 to \$150,000 per mile, depending upon the amount of flow being diverted.

### Setting a plan

Simon arrived in Aurora from a position in the San Diego County Water Authority in January 2015, just in time to experience the interceptor failure. As principal engineer — a new position — he was tasked with creating and implementing a

*(continued)*



### PROFILE: Aurora (Colorado) Water Operations

**CUSTOMERS:**  
351,000 (people served, not individual accounts)

**SERVICE AREA:**  
154 square miles

**WATER VOLUME:**  
210 mgd capacity

**INFRASTRUCTURE:**  
1,407 miles of water mains  
1,094 miles of sanitary sewer lines

**EMPLOYEES:**  
445

**WEBSITE:**  
[www.auroragov.org](http://www.auroragov.org)



# Power To Go™ For Your Cab & Chassis



Vanair's PTO Underdeck Systems Provide You With the Power Combination You Need



Up to  
210 CFM



Up to  
12 kW



Torque output up to  
77 Ft. Lbs.



In any  
Combination

Why PTO?

Half the price of a tow-behind | Extra bed space  
Increased maneuverability | Tier 4F Compliant  
Less maintenance | Freed up hitch | Reduced weight



**VANAIR**®  
MOBILE POWER SOLUTIONS™

Vanair's **There**



[Youtube.com/VanairManufacturing](https://www.youtube.com/VanairManufacturing)

800.526.8817 [vanair.com](http://vanair.com)



“It was pretty forward-thinking for a relatively young water system to create an asset management position now so that as our system continues to age, we don’t have to play catch-up and plan at the same time.”

Steve Simon

A temporary sewer bypass line is laid out along Sand Creek to divert wastewater from a damaged 36-inch main in preparation for CIPP repair.

comprehensive asset management program incorporating data systematically collected by the city during previous decades.

“A lot of good work had been done over time, and my role is to use that data,” Simon says. “It was pretty forward-thinking for a relatively young water system to create an asset management position now so that as our system continues to age, we don’t have to play catch-up and plan at the same time.”

Simon oversaw development of an organization-wide strategic plan and a specific strategy to systematically inspect the community’s wastewater lines. The plan relies upon accumulated data and available CCTV footage. From that, Simon and other department engineers extrapolate scenarios and prioritize interceptor relining work.

Specifically, the engineers stipulated that an interceptor needing urgent rehabilitation must:

- Be at least 30 inches in diameter and constructed of reinforced concrete
- Be 40 years old or older
- Carry at least 5 million gallons daily
- Flow at least half full
- Lack previous inspection data.

This “predictive rehabilitative” model guides the department’s interceptor inspection and repair regime. Simon concedes that the modeling is mostly theoretical, with the exception of occasional video evidence.

“I really enjoy this process, but it is guessing,” he says, acknowledging that some colleagues have suggested as much. “It is not like a more calculated approach. We are not able to really tell you



Aurora Water principal engineer and infrastructure planner Steve Simon (left) with staff member Shiva Sapkota, Inliner project manager Joseph Moya, and staff member Kirk Skogen.

## BUILDING PROFICIENCY

Aurora, Colorado, is Denver’s largest neighbor. In square miles, Aurora is larger than the Mile High City. So did Aurora look to its big-city neighbor in 2015 for guidance on how to assess and upgrade its water utilities?

“No, we didn’t try to emulate Denver,” says Steve Simon, principal engineer of Aurora Water Operations. “It’s an older utility with a different set of infrastructure challenges. We didn’t go and look and try to exactly mimic what Denver or any other utility was doing.”

Rather, Simon and other Aurora officials started from scratch and worked up their own plan to strategically manage assets and resources. The plan was finalized in 2017. Planners, engineers, managers and field crews all contributed to it. The team effort succeeded well enough that Denver-area utilities officials now look to Aurora for guidance.

“In some situations, other utilities have contacted us about things in our experience that might help them. I would say that we are getting a reputation for being pretty proficient in managing our assets,” Simon says. “Experts? It feels like we are getting there.”

More evidence: Aurora’s asset management group gave asset management presentations at the American Water Works Association annual conference, the North American Society for Trenchless Technology No-Dig Show, and the American Society of Civil Engineers’ annual pipelines conference. Last year, Simon reached out and formed a Denver Metro Asset Management Council. Some 15 to 20 public sector water utilities now are corresponding and have met twice — most recently in May — to share experiences and hone their understanding of how to take care of assets.

the exact condition of a pipe and its remaining useful life, so we rely upon formulas.”

What this means for the community’s aging interceptor lines is that over the next five years, 33,000 feet of concrete interceptor pipe will be systematically relined. The rehab program may have been launched just in time: Some of the pipe will approach the end of its 50-year engineered life span by the time it is reconditioned. The contracted cost of restoring the pipe is an estimated \$7.5 million.

The targeted pipe is a small percentage of Aurora’s 60 miles of larger diameter wastewater interceptors. Most of the pipe is polyvinyl chloride, which has an estimated functional life of 75 years; the city is holding off serious inspection of it. Pipes that don’t meet the criteria for full-out attention now — for example, lines between 20 and 30 inches in diameter — will be inspected in the next few years using floating camera technology. In all, the city has 1,094 miles of wastewater pipe ranging from 6 to 48 inches in diameter.

#### Across the board

Aurora’s asset management tool is not restricted to sewer lines. After the strategic plan was implemented, Simon and his colleagues began to develop management plans for all water utilities services (water transmission and distribution, pumping, treatment, stormwater and so on).

“We envision 10 to 12 different plans,” Simon says. “Three are done. We’ll map two or three this year and two to three each year moving forward.” After 2021, the ongoing job will be to maintain the management protocols.

Simon says the city’s waterlines are generally in better condition, partly because of the less corrosive environment inside the pipes. The city has been aggressive, he says, in inspecting and maintaining critical water transmission lines so a rigorous repair program probably will not be necessary. The assets of the potable water division will be strategically monitored, of course, but the wastewater line upgrade is likely to be the city’s big-dollar project for the foreseeable future.

#### Better buy-in

The bottom line for any asset management

program is ensuring that assets maintain defined levels of service. When that happens, all stakeholders in a community — from residents to city leadership to operational personnel — see the practical value of a pre-emptive strategy. A rate increase has not yet been necessary to fund Aurora’s strategic upgrade, but City Council members seem prepared to continue to fund both planning and operational elements.

“We haven’t had to ask for more money,” Simon says. “We have recurring budgets needed to do the work, and so far we have had support for them. Everyone on council seems to under-

stand and appreciate the need for what we are doing.”

Some of that support, he believes, is rooted in the department’s decision to develop the asset management program in-house. Before Simon joined the city staff, there was an initiative undertaken to contract out the program’s development, but it stalled. “Deciding to do it in-house was, I think, a good thing. It was a better investment of time and money and, as important, there was better buy-in for what we came up with.

“I believe we have been really successful so far, but there still is much work to do.” ♦

**Liner Products**

# WE BRING IT.

When the waters rage, you can count on us.

*Clearly Superior*

**Liner Products is there when you need us:** with precision-engineered custom CIPP tubes designed for a wide variety of installation methods and challenging design conditions, and the logistics support to respond fast in emergencies. Contact Liner Products today, and let us help you navigate the waters on your next CIPP project.



Now offering saturated and UV tubes in addition to our traditional dry non-woven felt products.

**812.723.0244 | LinerProducts.com**

**Liner Products** ©2018, Liner Products

#### FEATURED PRODUCTS FROM:

**Layne Inliner**  
812-865-3232  
www.layne.com

**Sunbelt Rentals**  
800-736-2504  
www.sunbeltrentals.com

**Rush-Overland Manufacturing**  
800-489-2397  
www.rushoverland.com

**Vac-Con, Inc.**  
904-284-4200  
www.vac-con.com  
(See ad page 136)

# ROUNDING UP THE INDUSTRY

NASSCO is working to bring members together and understand regional issues

By Sheila Joy

When I was appointed executive director of NASSCO this past April, one of the first things I did was set three main goals for 2018.

The first is to return focus to the contractor community so that municipalities, engineers, and manufacturers of assessment, maintenance, and rehabilitation equipment and supplies can all benefit from quality work. The second goal is to partner with other like-minded associations and organizations to unify our efforts and magnify our collective voice in building awareness for the need to address our aging underground infrastructure. Thirdly, this year I intend to improve communication with members to learn more about new technologies and listen to their unique opinions and perspectives so that our mission to set industry standards for the assessment, maintenance, and rehabilitation of underground infrastructure may be strengthened and we may serve the industry at a higher level.

One of the ways we plan to achieve this third goal is through the development of a new event called "NASSCO Round-Ups." Together with Tim Vivian, the president of NASSCO's board of directors, I will visit communities across

the country to meet with NASSCO members and other professionals aligned to our industry. Our goal? To hear more about what is happening regionally so that we may better understand unique geographic challenges and opportunities to gain insight regarding how NASSCO can evolve to meet the growing needs of the industry.

The roundtable discussion format also provides the opportunity for NASSCO to share information and updates pertaining to a variety of topics including federal funding of infrastructure, updates to the Pipeline Assessment and Certification Program and Inspector Training and Certification Program, international expansion of NASSCO, new resources available to the industry, and so much more. The bottom line is that we want to open clear lines of communication, in an informal and personal way, by gathering as small groups for meaningful discussions with actionable results.

If you are interested in hosting a NASSCO Round-Up, or participating in one, please contact Heather Myers at [heather@nassco.org](mailto:heather@nassco.org). ♦

**NASSCO (National Association of Sewer Service Companies)** is located at 2470 Longstone Lane, Suite M, Marriottsville, MD 21104; 410-442-7473; [www.nassco.org](http://www.nassco.org)

Sheila Joy is executive director of NASSCO. She can be reached at [director@nassco.org](mailto:director@nassco.org).

## Get the EDge Training and Continuing Education Courses

### PACP TRAINING

#### September 4

##### Stratford, CT

Includes: MACP, LACP, PACP

Trainer: Jerry Weimer

513-659-5008 or [jerryweimerconsulting@gmail.com](mailto:jerryweimerconsulting@gmail.com)

#### September 6

##### Santa Fe, NM

Includes: MACP, LACP, PACP

Trainer: Sammy Maestas

505-412-3362 or [sammymaestas@yahoo.com](mailto:sammymaestas@yahoo.com)

#### September 10

##### Eatontown, NJ

Includes: PACP, MACP, LACP

Trainer: Brandon Conley

248-349-0904 or [pacp@dohenycompanies.com](mailto:pacp@dohenycompanies.com)

#### September 11

##### Durham, NC

Includes: PACP, MACP, LACP

Trainer: Paul Booth

704-681-3989 or [woodsidenenv@gmail.com](mailto:woodsidenenv@gmail.com)

#### September 11

##### Covington, GA

Includes: PACP, MACP, LACP

Trainer: John Jones

678-760-5826 or [plumblineconsultant@gmail.com](mailto:plumblineconsultant@gmail.com)

#### September 12

##### Marriottsville, MD

Includes: LACP, PACP, MACP

Trainer: Irvin Gemora

410-458-9591 or [irv.gemora@comcast.net](mailto:irv.gemora@comcast.net)

#### September 12

##### West Wareham, MA

Includes: PACP, MACP, LACP

Trainer info: Lindsey Sylvester

603-606-4436 or [lindsey.sylvester@wright-pierce.com](mailto:lindsey.sylvester@wright-pierce.com)

#### September 12

##### North Seattle, WA

Includes: PACP, MACP, LACP

Trainer info: John Jurgens

425-487-3325 or [nodig@aol.com](mailto:nodig@aol.com)

#### September 17

##### Northville, MI

Includes: PACP

Trainer: Brandon Conley

248-349-0904 or [pacp@dohenycompanies.com](mailto:pacp@dohenycompanies.com)

#### September 18

##### Franklin, NH

Includes: MACP, LACP, PACP

Trainer: Laurie Perkins

888-621-8156 or [laurie.perkins@wright-pierce.com](mailto:laurie.perkins@wright-pierce.com)

#### September 18

##### Roseville, CA

Includes: PACP, MACP, LACP

Trainer: Marilyn Shepard

916-899-8961 or [mshepard1@hotmail.com](mailto:mshepard1@hotmail.com)

#### September 18

##### Northville, MI

Includes: PACP, MACP, LACP

Trainer: Brandon Conley

248-349-0904 or [pacp@dohenycompanies.com](mailto:pacp@dohenycompanies.com)

#### September 19

##### Marriottsville, MD

Includes: PACP

Trainer: Rizwan A. Siddiqi, P.E.

240-547-1124 or [rizwan.siddiqi@ebaengineering.com](mailto:rizwan.siddiqi@ebaengineering.com)

#### September 25

##### Tampa, FL

Includes: PACP, MACP, LACP

Trainer: Paul Booth

704-681-3989 or [woodsidenenv@gmail.com](mailto:woodsidenenv@gmail.com)

#### September 25

##### Bolton, ON

Includes: PACP, MACP, LACP

Trainer: Brandon Conley

248-349-0904 or [pacp@dohenycompanies.com](mailto:pacp@dohenycompanies.com)

#### October 2

##### Houston, TX

Includes: MACP, LACP, PACP

Trainer: Paul Booth

704-681-3989 or [woodsidenenv@gmail.com](mailto:woodsidenenv@gmail.com)

#### October 4

##### Santa Fe, NM

Includes: LACP, PACP, MACP

Trainer: Sammy Maestas

505-412-3362 or [sammymaestas@yahoo.com](mailto:sammymaestas@yahoo.com)

#### October 9

##### Covington, GA

Includes: MACP, LACP, PACP

Trainer: John Jones

678-760-5826 or [plumblineconsultant@gmail.com](mailto:plumblineconsultant@gmail.com)

NASSCO  
**PRO**  
TRAINING



### OTHER CLASSES FORMING

Contact one of the trainers listed above if you are interested in having a class at your facility or in your area.



# Compact. Rugged. Affordable.

**SPECIAL PRICING AVAILABLE FOR  
A LIMITED TIME!** Contact your dealer  
representative today!

## BP 100 Controller

The new multi-function computer controller has everything you need to conduct inspections and record video right out of the box!



**weftec**  
the water quality event™  
Booth # 7539

Large diameter, longer distance and  
truck-mount packages available!



Mount in a truck - or use in  
the optional portable cart  
with large wheels to easily  
reach off-road manholes.

Sourcewell  
Formerly NJPW  
Awarded Contract

## We listened.

The market spoke, and IBAK listened. Introducing the most sophisticated, compact, rugged and easy-to-use mainline inspection system we have ever designed. The MainLite® systems are adaptable, capable, and ready to go at the push of a button. We are offering these systems in affordable packages that can meet your needs whether you are a small town, large municipality or successful inspection contractor.



Push | High Def | Mainline | Lateral Launch | 3D Mapping | 360° Pipe and Manhole Cameras  
**(800)-656-4225 | www.rapidview.com | Past Proven. Future Ready.**

IBAK Inspection Equipment Manufacturing is Certified ISO 9001:2015 and ISO14001: 2015.

# MUNICIPAL SEWER & WATER™ 2018-2019 BUYER'S GUIDE



Advertisers in the magazine are listed in purple and bolded.



## Alphabetical Listings

### 3T Equipment Co. Inc.

1596 Hampton Way  
Santa Rosa, CA 95407  
707-543-8555 • Fax: 707-543-8558  
tk3tequip@aol.com  
www.3tequipco.com

**Ad on page 123**

### American Highway Products Ltd.

11723 Strasburg Bolivar Rd. NW  
Bolivar, OH 44612  
888-272-2397 • 330-874-3270 • Fax: 330-874-3800  
sales@ahp1.com  
www.ahp1.com

**Ad on page 95**

### American Shoring, Inc.

207 Lake St., Route 32  
Newburgh, NY 12550  
800-407-4674 • Fax: 845-562-2411  
sales@americanshoring.com  
www.americanshoring.com

**Ad on page 14**

### Applied Felts, Inc.

450 College Dr.  
Martinsville, VA 24112  
276-656-1904  
info@appliedfelts.com  
appliedfelts.com

**Ad on page 35**

## A

### Aarcomm Systems Inc.

106-18 Fawcett Rd.  
Coquitlam, BC V3K 6X9  
Canada  
800-604-9218  
sales@aarcomm.com  
www.aarcomm.com

### ADS ENVIRONMENTAL SERVICES®

#### ADS Environmental Services

340 The Bridge St, Ste. 204  
Huntsville, AL 35806  
800-633-7246 • 256-430-3366 • Fax: 256-430-6633  
adssales@idexcorp.com  
www.adsenv.com

**Ad on page 9, 115**

### Advanced Drainage Systems, Inc.

4640 Trueman Blvd.  
Hilliard, OH 43026  
800-821-6710 • Fax: 614-658-0204  
info@ads-pipe.com  
www.ads-pipe.com

### American Jetter

6908 Pine Grove Rd.  
Knoxville, TN 37914  
866-944-3569 • 865-524-4647 • Fax: 865-247-5105  
andy@americanjetter.com  
www.americanjetter.com

**Ad on page 132**

### American Pleasure Products, Inc.

2823 E Industrial Dr.  
Rose City, MI 48654  
989-685-2697 • Fax: 989-685-8484  
info@aquacycleusa.com  
www.aquacycleusa.com

**Ad on page 109**



### American Sewer Parts & Cleaning

W137N5560 Williams Place  
Menomonee Falls, WI 53051  
800-666-0766 • 262-783-6666 • Fax: 262-783-4860  
sales@americansewerparts.com  
www.americansewerparts.com

**Ad on page 21**



### AMT Pump Company

400 Spring St.  
Royersford, PA 19468  
610-948-3800 • Fax: 610-948-5300  
sales@amtump.com  
www.amtump.com

**Ad on page 26**

### Anue Water Technologies, Inc.

5123 S Royal Atlanta Dr.  
Tucker, GA 30084  
760-727-2683  
tchandler@anuewater.com  
www.anuewater.com

### AP/M Permaform

PO Box 555  
Johnston, IA 50131  
800-662-6465 • 515-276-9610 • Fax: 515-276-1274  
info@permaform.net  
www.permaform.net

**Ad on page 83**

## ARIES

### Aries Industries, Inc.

550 Elizabeth St.  
Waukesha, WI 53186  
800-234-7205 • 262-896-7205 • Fax: 262-896-7099  
sales@ariesindustries.com  
www.ariesindustries.com

**Ad on page 27**



### Arthur Products Co.

1140 Industrial Pkwy.  
Medina, OH 44256  
800-322-0510 • 330-725-4905 • Fax: 330-722-2698  
apc@apdsq.com  
www.arthurproducts.com

**Ad on page 87**

» **B**

**Best Management Products, Inc.**

9 Matthews Dr., Unit A1 A2  
East Haddam, CT 06423  
800-504-8008 • 410-687-6256 • Fax: 877-434-3197  
tjm@bmpinc.com  
www.bmpinc.com  
**Ad on page 95**

**Bionetix International**

21040 Rue Daoust  
Sainte-Anne-de-Bellevue, QC H9X 4C7  
Canada  
514-457-2914 • Fax: 514-457-3589  
info@bionetix.ca  
www.bionetix-international.com

**Blue-White Industries, Ltd.**

**Blue-White Industries**  
5300 Business Dr.  
Huntington Beach, CA 92649  
714-893-8529 • Fax: 714-894-9492  
sales@blue-white.com  
www.blue-white.com  
**Ad on page 43**

**Boerger, LLC**

2860 Water Tower Pl.  
Chanhassen, MN 55317  
612-435-7300 • Fax: 612-435-7301  
america@boerger.com  
www.boerger.com

**BRIGHT DYES - Division of Kingscote Chemicals**

3334 S Tech Blvd.  
Miamisburg, OH 45345  
800-394-0678 • 937-886-9100 • Fax: 937-886-9300  
sales@kingscotechemicals.com  
www.brightdyes.com  
**Ad on page 131**

» **C**



**Cam Spray**

520 Brooks Dr.  
Iowa Falls, IA 50126  
800-648-5011 • 641-648-5011 • Fax: 641-648-5013  
sales@camspray.com  
www.camspray.com  
**Ad on page 38**

**Cat Pumps**

1681 94th Ln. NE  
Minneapolis, MN 55449  
763-780-5440 • Fax: 763-780-2858  
info@catpumps.com  
www.catpumps.com

**CCI Pipeline Systems**

1026 O'Neal Dr.  
Breaux Bridge, LA 70517  
800-867-2772 • 337-332-5808 • Fax: 337-332-5809  
sales@ccipipe.com  
www.ccipipe.com  
**Ad on page 99**



**CHEMetrics, Inc.**

4295 Catlett Rd.  
Midland, VA 22728  
800-356-3072 • 540-788-9026 • Fax: 540-788-4856  
sales@chemetrics.com  
www.chemetrics.com

**Chempace Corporation**

339 Arco Dr.  
Toledo, OH 43607  
800-423-5350 • 419-535-0101 • Fax: 419-535-0531  
tmock@chempace.com  
www.chempace.com  
**Ad on page 97**

**Cleral USA On Board Scales**

PO Box 1524  
Lodi, CA 95241  
866-901-7372 • 209-224-7270  
www.cleral-usa.com  
**Ad on page 130**

**CreteX Specialty Products**

N16 W23390 Stoneridge Dr., Ste. A  
Waukesha, WI 53188  
800-345-3764 • 262-542-8153 • Fax: 262-542-0301  
info@creteXseals.com  
www.creteXseals.com  
**Ad on page 40**

**CTSspec**

3655 Grandes-Tourelles Ave., Ste. 210  
Boisbriand, QC J7H 0E2  
Canada  
888-965-8987 • 450-979-7535 • Fax: 866-925-4747  
sales@ctspec.com  
www.ctspec.com  
**Ad on page 51**

**Cua Claws**

2376 Maize Rd.  
Twentynine Palms, CA 92277-9736  
714-697-8697  
jerry@cuaclaws.com  
www.cuaclaws.com  
**Ad on page 132**



ctspec.com

Every successful inspection starts with CTSpec!

**Up to 40% in productivity gain :**

- Reduce project costs by 25%
- Improve your decision-making with better action planning
- Share information between departments more efficiently
- Create thematic map using our easy-to-use interface
- Execute more profitable projects
- GIS Ready

**Exclusive** Edit Overlay with the Video Editing Module

Contact us for a free trial: 888 965 8987 ext. 1

Success stories: City of Toronto, Veolia and many more. Visit [www.ctspec.com](http://www.ctspec.com) to read more stories



**CUES, Inc.**  
3600 Rio Vista Ave.  
Orlando, FL 32805  
800-327-7791 • 407-849-0190 • Fax: 407-425-1569  
salesinfo@cuesinc.com  
www.cuesinc.com  
**Ad on page 61**

**Cusco**  
305 Enford Rd.  
Richmond Hill, ON L4C 3E9  
Canada  
800-490-3541 • 905-883-1214 • Fax: 905-883-1778  
sales@wastequip.com  
www.wastequip-cusco.com  
**Ad on page 23**

## D



**Dallas Specialty & Mfg. Co.**  
1161 Ruggles St.  
Grand Prairie, TX 75050  
800-222-5644 • 972-641-8444 • Fax: 972-641-8488  
mike@dalspc.com  
www.dallaspecialty.com

**Deep Trekker**  
830 Trillium Dr.  
Kirchner, ON N2R 1K4  
Canada  
519-342-9177  
www.deeptrekker.com/dt340-crawler  
**Ad on page 65**

**Duke's Root Control, Inc.**  
1020 Hiawatha Blvd. W  
Syracuse, NY 13204  
800-447-6687 • 315-472-4781 • Fax: 315-475-4203  
lynn@dukes.com  
www.dukes.com  
**Ad on page 15**

**Dultmeier Sales**  
13808 Industrial Rd.  
Omaha, NE 68137  
800-228-9666 • 402-333-1444 • Fax: 402-333-5546  
dultmeier@dultmeier.com  
www.dultmeier.com

**Dynamic Repairs**  
40 Arnot St., Unit 20  
Lodi, NJ 07644  
973-478-0893 • Fax: 973-478-0895  
dynamicablerepairs@yahoo.com  
www.dynamicrepairs.biz  
**Ad on page 131**

## E

**Elastec**  
1309 W Main St.  
Carmi, IL 62821  
618-382-2525 • Fax: 618-382-3610  
elastec@elastec.com  
www.elastec.com  
**Ad on page 85**



**Eldred Environmental & Export Co. LTD**  
PO Box 110  
Milan, IL 61264  
800-613-3640 • 309-787-3640 • Fax: 309-787-3635  
info@fol-da-tank.com  
www.eldredenvironmental.com



**Electric Eel Mfg.**  
501 W Leffel Ln.  
Springfield, OH 45501  
800-833-1212 • 937-323-4644 • Fax: 937-323-3767  
info@electriceel.com  
www.electriceel.com  
**Ad on page 133**



**Emagineered Solutions, Inc.**  
527 NW Elm Ave., Ste. 3-405  
Redmond, OR 97756  
541-504-0416  
ray.i@emagineered.com  
www.theshooterclipp.com

**Endress+Hauser**  
2350 Endress Pl.  
Greenwood, IN 46143  
888-363-7377 • Fax: 317-535-8498  
info@us.endress.com  
www.us.endress.com



**Enviro-Care Company**  
1570 St. Paul Ave.  
Gurnee, IL 60031  
815-636-8306  
ecsales@enviro-care.com  
www.enviro-care.com

**Environmental Coatings LLC**  
4702 E Virginia St.  
Mesa, AZ 85215  
480-984-7608  
info@sewershield.com  
www.sewershield.com



**Envirosight**  
111 Canfield Ave., Ste. B3  
Randolph, NJ 07869  
866-936-8476 • 973-252-6700 • Fax: 973-252-1176  
office@envirosight.com  
www.envirosight.com  
**Ad on page 2**



**Enz USA Inc.**  
1585 Beverly Ct., Unit 115  
Aurora, IL 60502  
877-362-8721 • 630-692-7880 • Fax: 630-692-7885  
salesusa@enz.com  
www.enzusainc.com  
**Ad on page 83**

## F

**Felling Trailers, Inc.**  
1525 Main St. S  
Sauk Centre, MN 56378  
866-213-2948 • 320-352-5239 • Fax: 320-352-5230  
trailers@felling.com  
www.felling.com  
**Ad on page 10**

**Ferguson Waterworks**  
12500 Jefferson Ave.  
Newport News, VA 23602  
www.ferguson.com/waterworks  
**Ad on page 69**



**Ferratex, Inc.**  
354 Eisenhower Pkwy., Ste. 1300  
Livingston, NJ 07039  
973-609-5449  
justing@ferratex.com  
www.ferratex.com

**Fibertech Inc.**  
11744 Blue Bell Rd.  
Elberfeld, IN 47613  
800-304-4600 • 812-983-2642 • Fax: 812-983-4953  
www.fibertechinc.net

**Fleet Complete**  
88 Queens Quay W, Ste. 200  
Toronto, ON M5J 0B8  
Canada  
800-220-0779 • 905-944-0863  
marketing@fleetcomplete.com  
www.fleetcomplete.com  
**Ad on page 133**

**FlowMark Vacuum Trucks**  
610 S Adams St.  
Kansas City, KS 66105  
855-653-8100 • 913-653-8103 • Fax: 855-653-8101  
sales@flowmark.com  
www.flowmark.com  
**Ad on page 105**

**Foundry Services Co.**  
4309 N 26th St.  
Omaha, NE 68111  
402-451-0674 • Fax: 402-457-6710  
kkempf@foundryservicesco.com  
www.foundryservicesco.com  
**Ad on page 93**

## G



**GapVax, Inc.**  
575 Central Ave.  
Johnstown, PA 15902  
888-442-7829 • 814-535-6766 • Fax: 814-539-3617  
inquiry@gapvax.com  
www.gapvax.com  
**Ad on page 135**



**General Pipe Cleaners/General Wire Spring**  
1101 Thompson Ave.  
McKees Rocks, PA 15136  
800-245-6200 • 412-771-6300  
info@drainbrain.com  
www.drainbrain.com  
**Ad on page 31**



**General Pump**  
1174 Northland Dr.  
Mendota Heights, MN 55120  
888-474-5487 • 651-454-6500 • Fax: 651-454-8015  
sales@gpcompanies.com  
www.generalpump.com

**Giant Industries**  
900 N Westwood  
Toledo, OH 43607  
800-633-4565 • 419-531-4600 • Fax: 419-531-6836  
sales@giantpumps.com  
www.giantpumps.com



**Global Pump**  
10162 E Coldwater Rd.  
Davison, MI 48423  
866-360-7867 • 810-653-4828 • Fax: 810-658-0632  
sales@globalpump.com  
www.globalpump.com

# The Flexibility You Need For Your Flow Sensors.



## Introducing the **New Hach FL1500** Stationary Flow Logger.

The Hach® FL1500 Flow Logger is suited for virtually any flow measurement application. The FL1500 offers the most sensor options of any Hach Logger. Thanks to its compatibility with Hach's complete portfolio of flow sensors, you can have more confidence in your data.

Visit us at WEFTEC, Booth 3617

[hachflow.com/fl1500](http://hachflow.com/fl1500)



**Gorman-Rupp Company**

600 S Airport Rd.  
Mansfield, OH 44903  
419-755-1011  
grosales@gormanrupp.com  
www.GRpumps.com  
**Ad on page 113**

**Granite Inliner**

4520 N State Rd. 37  
Orleans, IN 47452  
812-865-3232  
mike.green@gcinc.com  
www.inliner.com

**Greyline Instruments**

11451 Belcher Rd. S  
Largo, FL 33773  
888-473-9546 • 315-788-9500 • Fax: 315-764-0419  
info@greyline.com  
www.greyline.com  
**Ad on page 20**

**H**

**H2TR**

PO Box 204  
East Lansing, MI 48826  
517-204-2121  
cam.howie@H2techrescue.com  
www.H2TR.com  
**Ad on page 131**

**Hach - Flow Products & Services**

5600 Lindbergh Dr.  
Loveland, CO 80538  
800-368-2723  
www.hachflow.com  
**Ad on page 53**

**HammerHead Trenchless**

500 South C.P. Ave.  
Lake Mills, WI 53551  
800-331-6653 • 920-648-4848  
www.hammerheadtrenchless.com  
**Ad on page 79**

**Hannay Reels**

553 State Rte. 143  
Westerlo, NY 12193  
877-467-3357 • 518-797-3791 • Fax: 518-797-3259  
reels@hannay.com  
www.hannay.com  
**Ad on page 103**

**Hastings Irrigation Pipe Co.**

1801 E South St.  
Hastings, NE 68902  
800-759-8823 • 402-463-6633 • Fax: 402-463-4355  
www.hastingsirrigation.com

**Hermann Sewerin GmbH**

Robert-Bosch-Str. 3  
33334 Gutersloh  
Germany  
888-592-9916 • Fax: 495241934444  
sewerin-usa@sewerin.net  
www.sewerin.com  
**Ad on page 26**



**HIPPO Multipower**

208 NW Business Park Ln.  
Riverside, MO 64150  
800-844-0624 • 816-474-4643  
hippo@hippomultipower.com  
www.hippomultipower.com  
**Ad on page 25**

**Hot Jet USA**

14773 Heritage Crest Way  
Riverton, UT 84065  
800-624-8186 • 801-545-0777  
sales@hotjetusa.com  
www.hotjetusa.com  
**Ad on page 131**



**Hurco Technologies, Inc.**

409 Enterprise St.  
Harrisburg, SD 57032  
800-888-1436 • 605-743-2466  
info@hurcotech.com  
www.hurcotech.com  
**Ad on page 24**

**Hydra-Stop LLC**

144 Tower Dr., Ste. A  
Burr Ridge, IL 60527  
800-538-7867 • 708-389-5111 • Fax: 708-389-5125  
hydra-stopsales@hydra-stop.com  
www.hydra-stop.com

**HydraTech Engineered Products**

10488 Chester Rd  
Cincinnati, OH 45050  
513-827-9169 • Fax: 513-827-9171  
info@hydrattechllc.com  
www.hydrattechllc.com

**I**

**ICS, Blount, Inc.**

4909 SE International Way  
Portland, OR 97222  
800-321-1240 • Fax: 503-653-4393  
marketing@icsdiamondtools.com  
www.icsdiamondtools.com

**InfoSense, Inc.**

8116 S Tryon St., Ste. B3-203  
Charlotte, NC 28273  
877-747-3245 • Fax: 704-930-0145  
achurchill@infosense.com  
www.infosense.com  
**Ad on page 8**

**InfoSight Corporation**

20700 US Hwy. 23  
Chillicothe, OH 45601  
740-642-3600 • Fax: 740-642-5001  
sales@infosight.com  
www.infosight.com  
**Ad on page 91**

**Infrastructure Repair Systems, Inc.**

4301 A 34th St. N  
St. Petersburg, FL 33714  
877-327-4216 • Fax: 877-327-4118  
irsi@irsi.net  
www.irsi.net

**Inliner Technologies**

1468 W Hospital Rd.  
Paoli, IN 47454  
812-723-0704  
info@inliner.com  
www.inliner.com  
**Ad on page 19**

**IPEX USA LLC**

1425 North Service Road E.  
Oakville, ON L6H 1A7  
Canada  
800-463-9572 • 289-881-0120 • Fax: 905-403-1124  
marketing@ipexna.com  
www.ipexna.com  
**Ad on page 41**



**ITpipes, LLC**

4921 Alexander Dr. NE  
Albuquerque, NM 87107  
877-487-4737 • 505-341-0109  
cori@itpipes.com  
www.itpipes.com

**J**

**Jack Doheny Companies**

777 Doheny Dr.  
Northville, MI 48167  
800-336-4369  
info@dohenycompanies.com  
www.dohenycompanies.com

**JAECO Fluid Systems**

100 Quaker Ln.  
Malvern, PA 19355  
610-407-7207 • Fax: 610-240-4906  
dszwak@jaecofs.com  
www.jaecofs.com  
**Ad on page 39**

**JM Eagle**

5200 W Century Blvd. 10th Flr.  
Los Angeles, CA 90045  
800-621-4404 • 310-693-8200 • Fax: 310-693-8249  
marcusmin@jmeagle.com  
www.jmeagle.com

**JPCI Services**

4702 E Virginia St.  
Mesa, AZ 85215  
480-986-1212  
info@jpciservices.com  
www.jpciservices.com

**K**



**K&W Products, Inc.**

26264 US Hwy. 98  
Elberta, AL 36530  
800-503-0076 • 251-986-7900 • Fax: 251-986-7902  
sales@kwproducts.net  
www.kwmiequipment.com  
**Ad on page 131**



**Kaiser Premier LLC**

2550 E Bijou Ave.  
Fort Morgan, CO 80701  
970-542-1975  
sales@kaiserpremier.com  
www.kaiserpremier.com  
**Ad on page 14**

**KEG Technologies, Inc.**

6220 N Pinnacle Dr.  
Spartanburg, SC 29303  
866-595-0515 • 864-804-6637  
sales@kegtechnologies.net  
www.kegtechnologies.net

**Kohler Power Systems**

444 Highland Dr.  
Kohler, WI 53044  
800-544-2444 • 920-457-4441  
www.kohlerpower.com

**Komline-Sanderson**

12 Holland Ave.  
Peapack, NJ 07977  
800-225-5457 • 908-234-1000 • Fax: 908-234-9487  
info@komline.com  
www.komline.com  
**Ad on page 87**

**L**



**LADTECH, Inc.**

902 Barton Ave. NW  
Buffalo, MN 55313-4401  
877-235-7464 • Fax: 651-415-1090 • Fax: 651-415-1090  
adjring@ladtech.com  
www.ladtech.com  
**Ad on page 91**

**Lametti & Sons**

16028 Forest Blvd. N  
Hugo, MN 55038  
651-426-1380  
bretta@lametti.com  
www.lametti.com



## WHAT IN THE WORLD ARE YOU DOING TO HELP SAVE THE ENVIRONMENT?

- Save water
- Save money
- Save emissions
  - Save fuel
  - Save engine maintenance
- Clean more sewer lines faster

Vacall AllJetVac combination sewer cleaners with a Recycler option can actually triple your productivity. While other jet-vac sewer cleaners must stop for refills every 12 to 19 minutes, the Recycler continuously vacuums water from sewer lines, puts it through a five-stage filter process, and then reuses the same water for jetting without stopping to go for refills.

See the industry's most productive, easiest to operate jet-vac sewer cleaner... versatile enough to use either with or without the Recycler option.

[Vacall.com/Recycler](http://Vacall.com/Recycler)

800-445-4752



**VACALL**<sup>TM</sup>  
DRIVING **INGENUITY**

## Lansas

### Lansas Mfg. by Vanderlans & Sons Inc.

1320 S Sacramento St.  
Lodi, CA 95240  
800-452-4902 • 209-334-4115 • Fax: 209-339-8260  
info@lansas.com  
www.lansas.com

## LaValley Industries

### LaValley Industries

1876 23rd St. SE  
Bemidji, MN 56601  
218-444-3030 • Fax: 218-444-9900  
infocenter@lavalleyindustries.com  
www.lavalleyindustries.com

### Liberty Pumps

7000 Apple Tree Ave.  
Bergen, NY 14416  
800-543-2550 • 585-494-1817 • Fax: 585-494-1839  
liberty@libertypumps.com  
www.libertypumps.com

## LINABOND CO-LINING SYSTEMS

### Linabond, Inc.

1161 Avenida Acaso  
Camarillo, CA 93012  
805-484-7373  
info@linabond.com  
www.linabond.com

### Liner Products

1468 W Hospital Rd.  
Paoli, IN 47454  
812-723-0244  
info@linerproducts.com  
www.linerproducts.com

### LMK Technologies

1779 Chessie Ln.  
Ottawa, IL 61350  
815-640-9302 • Fax: 815-433-0107  
info@lmktechnologies.com  
www.lmktechnologies.com

## M

### McLaughlin Underground

2006 Perimeter Rd.  
Greenville, SC 29605  
864-277-5870  
mmole@mightymole.com  
www.mclaughlinunderground.com

### Miller Pipeline

8850 Crawfordsville Rd.  
Indianapolis, IN 46234  
800-428-3742 • 317-293-0278 • Fax: 317-653-5200  
info@millerpipeline.com  
www.millerpipeline.com

Ad on page 10

### Milwaukee Rubber Products, Inc.

N52 W13319 Falls Creek Ct.  
Menomonee Falls, WI 53051  
800-325-3730 • 262-781-7888 • Fax: 262-781-1742  
sales@milwaukeerubber.com  
www.milwaukeerubber.com

Ad on page 131

### Mr. Manhole

125 S Canal St.  
Delphos, OH 45833  
419-741-9075 • Fax: 419-692-1600  
sales@mrmanhole.com  
www.mrmanhole.com

### MTech

7401 First Place  
Cleveland, OH 44146  
800-362-0240 • 440-646-0996 • Fax: 440-646-9953  
sales@mtechcompany.com  
www.mtechcompany.com

Ad on page 130

### Mueller Water Products

1200 Abernathy Rd. NE, Ste. 1200  
Atlanta, GA 30328  
800-423-1323 • 770-206-4200  
moreinfo@muellercompany.com  
www.muellerwaterproducts.com

### Multi Fittings Corp.

1055 Wilton Grove Rd.  
London, ON N6A 4K3  
Canada  
800-265-1815 • 519-681-2140 • Fax: 519-681-2156  
david.rymer@multifittings.com  
www.multifittings.com

Ad on page 59

## MyTana

### MyTana Manufacturing

746 Selby Ave.  
St. Paul, MN 55104  
800-328-8170 • 651-222-1738 • Fax: 651-222-1739  
mytana@mytana.com  
www.mytana.com

## N

### Neopoxy International, Inc.

23964 Clawiter Road  
Hayward, CA 94545  
510-782-1290 • Fax: 510-782-1292  
epoxy@neopoxy.us  
www.neopoxy.us

Ad on page 133

### NLB Corporation

29830 Beck Rd.  
Wixom, MI 48393  
248-624-5555  
nlbmkgt@nlbusa.com  
www.nlbcorp.com

## NozzTeq

Taking Science To The Sewer

### NozzTeq Inc.

1949 Calumet St.  
Clearwater, FL 33765  
866-620-5915 • 727-223-4979 • Fax: 603-413-6744  
info@nozzteq.com  
www.nozzteq.com

Ad on page 107

## P

### Park Process

7015 Fairbanks N Houston Rd.  
Houston, TX 77040  
855-511-7275 • 713-937-7602 • Fax: 713-937-4254  
rcaughman@park-usa.com  
www.parkprocess.com

Ad on page 133

### Parson Environmental Products, Inc.

PO Box 25  
Wernersville, PA 19565  
800-356-9023 • 610-582-6060 • Fax: 610-582-6064  
info@parsonenvironmental.com  
www.parsonenvironmental.com



**Perma-Liner Industries, LLC**  
13000 Automobile Blvd., Ste. 300  
Clearwater, FL 33762  
866-336-2568 • 727-507-9749 • Fax: 727-507-9849  
info@perma-liner.com  
www.perma-liner.com

Ad on page 5

### Petersen Products Co.

PO Box 340  
Fredonia, WI 53021  
800-926-1926 • 262-692-2416 • Fax: 262-692-2418  
sales@petersenproducts.com  
www.petersenproducts.com

Ad on page 107

## Pipeline Renewal TECHNOLOGIES™

### Pipeline Renewal Technologies

111 Canfield Ave., Ste. B3  
Randolph, NJ 07869  
866-936-8476 • 973-252-6700 • Fax: 973-252-1176  
mail@pipelinert.com  
www.pipelinert.com

Ad on page 33

### Pow-R Mole Sales, LLC

1400 Commerce Pkwy.  
Lancaster, NY 14086  
800-344-6653  
www.powrmole.com

## PRIMEX

PO Box 1708  
Detroit Lakes, MN 56501  
218-847-1317 • Fax: 218-847-4617  
info@primexcontrols.com  
www.primexcontrols.com

## PROCOMSOL

### ProComSol, Ltd

13001 Athens Ave., Ste. 220  
Lakewood, OH 44107  
877-221-1551 • 216-221-1550 • Fax: 216-221-1554  
sales@procomsol.com  
www.procomsol.com

## R



### Rain for Rent

5101 Office Park Dr, Ste 100  
Bakersfield, CA 93309  
800-742-7246  
info@rainforrent.com  
www.rainforrent.com

### RapidView IBAK North America

1828 W Olson Rd.  
Rochester, IN 46975  
800-656-4225 • 574-224-5426 • Fax: 574-223-7953  
sales@rapidview.com  
www.rapidview.com

Ad on page 49

## Ratech ELECTRONICS

Video Pipeline Inspection Systems

### Ratech Electronics, Ltd.

260-7 Spinnaker Way  
Concord, ON L4K 4P9  
Canada  
800-461-9200 • 905-660-7072 • Fax: 905-660-1519  
sales@ratech-electronics.com  
www.ratech-electronics.com

### RauschUSA

1686 Opportunity Ave.  
Chambersburg, PA 17201  
877-728-7241 • 717-709-1005 • Fax: 717-709-1009  
sales@rauschusa.com  
www.rauschusa.com

Ad on page 71

### Raven Lining Systems

13105 E 61st, Ste. A  
Broken Arrow, OK 74012  
800-324-2810 • 918-615-0020  
cookr@ravenlining.com  
www.ravenlining.com

Ad on page 89

### Reed Manufacturing

1425 W. 8th St.  
Erie, PA 16502  
800-666-3691 • 814-452-3691 • Fax: 814-455-1697  
reedsales@reedmfgco.com  
www.reedmfgco.com

Ad on page 97





“I trust  
RootX<sup>®</sup>  
because  
it works.”

*Steve Cijka, Chief Operator, Town of Brandon, VT*

In Brandon, Vermont — where Steve Cijka is responsible for preventing root damage to the town’s sewer lines — a lot of the pipes were laid in the 1930s and are easy prey for the roots of Brandon’s many sugar maples. Until they started using RootX<sup>®</sup>, Steve and his crews used a root cutting machine and the slow going made for a lot of unpleasant work in the 20-degree Brandon winters. Since he switched to RootX<sup>®</sup>, Steve reports that he sees the evidence of RootX<sup>®</sup> working in real time, killing roots while not damaging the town’s beloved trees.



*Vermont Sugar Maple  
[acer saccharum]*



**THE RIGHT SOLUTION.  
RIGHT NOW.**

- EPA-accepted, proven root-killing solution
- Easily applied by sewer crews with your existing equipment— no waiting for contractors
- Cost effective and guaranteed to work up to 36 months.\*

**Eliminate SSOs today! Visit [www.RootX.com](http://www.RootX.com), or talk to your RootX<sup>®</sup> representative at 1-800-844-4974.**



\*visit [www.rootx.com/municipalities/guarantee](http://www.rootx.com/municipalities/guarantee) for details.

### Reline America, Inc.

116 Battleground Ave.  
Saltville, VA 24370  
866-998-0808 • 276-496-4000  
info@relineamerica.com  
www.relineamerica.com

Ad on page 101

### Rival Hydrovac Inc.

Box 5  
Major, SK S0L 2H0  
Canada  
403-550-7997  
tdell@rivalhydrovac.com  
www.rivalhydrovac.com



### Rock Creek MFG, LLC

37149 Pleasant Valley Rd.  
Wister, OK 74966  
918-385-1530 • Fax: 918-647-9240  
obahannon@windstream.net  
www.grabbitomo.com

### Root Rat

PO Box 196  
148 Canal St.  
Bolivar, OH 44612  
800-288-7873 • 330-874-4300 • Fax: 330-874-4448  
chempure@gmail.com  
www.rootrat.net

Ad on page 109



### RootX

1705 Salem Industrial Dr. NE  
Salem, OR 97301  
800-844-4974 • 503-364-2999 • Fax: 503-485-5229  
rootx@rootx.com  
www.rootx.com

Ad on page 57




**SAERTEX  
multiCom**  
**SAERTEX multiCom LP**  
12200 Mt. Holly Huntersville Rd.  
Huntersville, NC 28078  
704-946-9229 • Fax: 704-464-5922  
multicom@saertex.com  
www.saertex-multicom.com

Ad on page 34

### Safe-Tee Chemical Company

16585 N 92nd St., Ste. 110  
Scottsdale, AZ 85260  
866-366-0587 • 480-968-6828 • Fax: 480-968-6776  
service@safetechemical.com  
www.safetechemical.com

Ad on page 132

### Sauereisen, Inc.

160 Gamma Dr.  
Pittsburgh, PA 15238  
412-963-0303 • Fax: 412-963-7620  
info@sauereisen.com  
www.sauereisen.com

Ad on page 105

### Schonstedt Instrument Company

100 Edmond Rd.  
Kearneysville, WV 25430  
800-999-8280 • 304-725-1050  
info@schonstedt.com  
www.schonstedt.com

### Schwalm USA

17 AD Asbury Dr.  
Greenville, SC 29605  
855-949-3441  
ckane@schwalm-usa.com  
www.schwalm-usa.com

### Sealing Systems, Inc.

9350 Cty. Rd. 19  
Loretto, MN 55357  
800-478-2054 • 763-478-2057 • Fax: 763-478-8868  
pam@ssisealingsystems.com  
www.ssisealingsystems.com

Ad on page 103

### Sewer Equipment

1590 Dutch Rd.  
Dixon, IL 61021  
888-477-7611 • Fax: 815-284-0453  
sales@sewerequipment.com  
www.sewerequipment.com

Ad on page 13

### Sewer Equipment Co. of Florida

1102 N Dixie Frwy.  
New Smyrna Beach, FL 32168  
800-635-2323 • 386-428-3303 • Fax: 386-427-4552  
csewerequisite@fl.sr.com  
www.sewerequisite.com

Ad on page 130



### Sewer Pro Shop, LLC

1061 Triad Ct., Ste. 1  
Marietta, GA 30062  
877-864-9394 • 470-592-1715 • Fax: 770-984-2802  
info@sewerproshop.com  
www.sewerproshop.com

### Sewer Shark

11808 N Ham Ln.  
Lodi, CA 95242  
209-993-5549  
rob@sewersharkmfg.com  
www.sewershark.net

Ad on page 130

### Sewer Shield Composite LLC

4702 E Virginia St.  
Mesa, AZ 85215  
480-830-9537  
info@sewershieldcomposites.com  
www.sewershieldcomposites.com

### Sierra Instruments, Inc.

5 Harris Ct., Bldg. L  
Monterey, CA 93940  
800-866-0200 • 831-373-0200 • Fax: 831-373-4402  
info@sierrainstruments.com  
www.sierrainstruments.com

### Simple Solutions Distributing

27 Penmere Rd.  
West Milford, NJ 07480  
800-667-8465 • 973-846-7817 • Fax: 973-858-0219  
sales@industrialodorcontrol.com  
www.industrialodorcontrol.com

Ad on page 132

### Singer

12850 87 Ave.  
Surrey, BC V3W 3H9  
Canada  
888-764-7858 • 604-594-5404 • Fax: 604-594-8845  
singer@singervalve.com  
www.singervalve.com

Ad on page 24



### SmartCover Systems

2067 Wineridge Pl.  
Escondido, CA 92029  
760-291-1980  
sales@smartcoversystems.com  
www.smartcoversystems.com

Ad on page 11

### Smith & Loveless, Inc.

14040 Santa Fe Trail Dr.  
Lenexa, KS 66215  
800-898-9122 • 913-888-5201 • Fax: 913-888-2173  
answers@smithandloveless.com  
www.smithandloveless.com

### Soil Surgeon, Inc.

PO Box 15083  
Santa Ana, CA 92735  
949-363-1401 • Fax: 714-434-9998  
info@soilsurgeoninc.com  
www.soilsurgeoninc.com

Ad on page 131



### Sonetics

7340 SW Durham Rd.  
Portland, OR 97224  
800-833-4558 • 503-684-7080 • Fax: 503-620-2943  
sales@soneticscorp.com  
www.soneticscorp.com

Ad on page 75

### Southern Valve & Fittings USA, Inc.

950 S. Kenansville Rd.  
Kenansville, FL 34739  
888-877-6825 • 305-757-8455 • Fax: 305-758-8711  
sales@soval.com  
www.soval.com

Ad on page 133

### Southland Tool Mfg. Inc.

1430 N Hundley St.  
Anaheim, CA 92806  
714-632-8198 • Fax: 714-632-8228  
sales@southlandtool.com  
www.southlandtool.com

Ad on page 129



### Spartan Tool

1506 W Division St.  
Mendota, IL 61342  
800-435-3866  
sales@spartantool.com  
www.spartantool.com



Safer Tools / Safer Workplace

### Specialty Maintenance Products

5711 Clarewood, #B  
Houston, TX 77401  
713-667-4402 • Fax: 713-669-8618  
sales@smptools.com  
www.smptools.com

Ad on page 81

### SpectraShield Liner Systems

4527 Sunbeam Rd.  
Jacksonville, FL 32257  
800-284-2030 • 904-419-4889 • Fax: 904-419-4892  
info@spectrashield.com  
www.spectrashield.com

Ad on page 63

### Sto-Away Power Cranes, Inc.

9306 Grand Blvd.  
Crown Point, IN 46307  
800-622-9797 • 219-942-9797 • Fax: 219-947-2503  
stoaway@comcast.net  
www.stoaway.com

Ad on page 123



### Subsite Electronics

1950 W Fir St.  
Perry, OK 73077  
800-846-2713  
sales@subsite.com  
www.subsite.com

### SubSurface Instruments, Inc.

1230 Flight-Way Dr.  
De Pere, WI 54115  
855-422-6346 • 920-347-1788 • Fax: 920-347-1791  
paul.renard@ssilocators.com  
www.ssilocators.com

Ad on page 131



# Committed to **HIGHER STANDARDS**

Multi Fittings products are designed to exceed all the applicable industry standards. They withstand higher impact forces, higher loads and more jobsite abuse than any other fittings on the market. For example, the impact strength of Trench Tough Plus fittings exceeds ASTM requirements by over 25%.

We understand that pressure and sewer fittings are not installed in a lab and must be designed to take the punishment of real jobsites. Only by manufacturing to Higher Standards can we make fittings that will stand the test of time.

Multi Fittings products are all made with a special PVC compound, which is immune to attack from the most aggressive effluents and soils.



**MULTI FITTINGS**  
**HIGHER STANDARDS™**

**multifittings.com** | Toll Free: 800-265-1815

Products are manufactured by IPEX Inc. and distributed in the United States by Multi Fittings Corp.

**SubSurface Locators, Inc.**  
PO Box 5490  
Incline Village, NV 89450  
775-298-2701 • Fax: 775-298-2703  
sldi@mindspring.com  
www.subsurfaceleak.com

Ad on page 99

**Sulzer Pumps Solutions Inc.**  
140 Pond View Dr.  
Meriden, CT 06450  
800-525-7790 • 203-238-2700 • Fax: 203-238-0738  
info.abs.usa@sulzer.com  
www.sulzer.com



**Super Products LLC**  
17000 W Cleveland Ave.  
New Berlin, WI 53151  
800-837-9711 • 262-784-7100  
info@superproductsllc.com  
www.superproductsllc.com

Ad on page 73



**Superior Signal Company LLC**  
PO Box 96  
Spotswood, NJ 08884  
800-945-8378 • 732-251-0800 • Fax: 732-251-9442  
info@superiorsignal.com  
www.superiorsignal.com/msw

Ad on page 133

**Suttner America Company**  
14864 W Ridge Ln.  
Dubuque, IA 52003  
800-831-0660  
sales@suttner.com  
www.suttner.com



**T&T Tools Inc.**  
4470 128th Ave.  
Holland, MI 49424  
800-521-6893 • Fax: 800-521-3260  
sales@mightyprobe.com  
www.mightyprobe.com

Ad on page 101

**Tech Products, Inc.**  
105 Willow Ave.  
Staten Island, NY 10305  
800-221-1311 • 718-442-4900 • Fax: 718-442-2124  
info@techproducts.com  
www.techproducts.com

**Telog, A Trimble Company**  
830 Canning Pkwy.  
Victor, NY 14564  
585-742-3000 • Fax: 585-742-3006  
ContactUs@trimble.com  
www.trimblewater.com



**TESCO CONTROLS, INC.**  
**Tesco Controls, Inc.**  
8440 Florin Rd.  
Sacramento, CA 95828  
800-948-3726 • 916-395-8800  
sales@tescocontrols.com  
tescocontrols.com



**The Strong Company, Inc.**  
4505 Emmett Sanders Rd.  
Pine Bluff, AR 71601  
800-982-8009 • 870-535-7617 • Fax: 870-850-6933  
info@strongseal.com  
www.strongseal.com

**Total Piping Solutions, Inc.**  
PO Box 525  
Olean, NY 14760  
716-372-0160 • Fax: 716-372-1767  
sales@tps.us  
www.tps.us

Ad on page 40



**TRIC Tools, Inc.**  
1350 South Loop Rd., Ste. 104  
Alameda, CA 94502  
888-883-8742 • 510-629-4167 • Fax: 510-217-9493  
john.rafferty@trictools.com  
www.trictools.com

**Trio-Vision, LLC**  
4806 Wright Dr., Bldg. C  
Smyrna, GA 30082  
800-443-3761 • 770-435-8991 • Fax: 770-435-0402  
www.trio-vision.com

**TruGrit Traction Inc.**  
PO Box 2084  
Winter Park, FL 32790  
407-900-1091  
info@trugrittraction.com  
www.TruGritTraction.com

**TURBO FOG Division of Kingscote Chemicals**  
3334 S Tech Blvd.  
Miamisburg, OH 45342  
800-394-0678 • 937-886-9100 • Fax: 937-886-9300  
sales@kingscotechemicals.com  
www.turbo-fog.com

Ad on page 130



**Ultra Shore**  
4745 Bakers Ferry Rd. SW  
Atlanta, GA 30336  
800-746-7464 • 404-505-0510 • Fax: 404-505-0506  
info@shoring.com  
www.shoring.com

Ad on page 87



**Universal Flow Monitors, Inc.**  
1755 E Nine Mile Rd.  
Hazel Park, MI 48030  
888-569-3090 • 248-542-9635 • Fax: 248-398-4274  
sales@flowmeters.com  
www.flowmeters.com

**USB-USA LLC**  
7565 Owl Creek Dr.  
Douglasville, GA 30134  
844-285-5770 • 678-214-7965 • Fax: 678-649-1766  
info@usb-usa.com  
www.usb-usa.com

Ad on page 34

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



**Vac-Con, Inc.**  
969 Hall Park Rd.  
Green Cove Springs, FL 32043  
904-284-4200 • Fax: 904-284-3305  
vns@vac-con.com  
www.vac-con.com

Ad on page 136



**Vac-Tron Equipment**  
27317 S Hwy. 33  
Okahumpka, FL 34762  
352-728-2222  
sales@vactron.com  
www.vactron.com



**Vacall**  
406 Mill Ave. SW  
New Philadelphia, OH 44663  
800-382-8302 • Fax: 330-339-8468  
mnorman@gradall.com  
www.vacall.com

Ad on page 55

**Vector Manufacturing**  
1621 S Illinois St.  
Streator, IL 61364  
800-627-3171 • 815-672-3171  
sales@vactor.com  
www.vactor.com

Ad on page 3

**Vacuum Sales, Inc.**  
51 Stone Rd.  
Lindenwold, NJ 08021  
800-547-7790 • 856-627-7790 • Fax: 856-627-3044  
sales@vacuumsalesinc.com  
www.vacuumsalesinc.com

**Vanair**  
10896 W 300 N  
Michigan City, IN 46360  
800-526-8817 • 219-879-5100 • Fax: 219-879-5800  
marketing@vanair.com  
www.vanair.com

Ad on page 45

**Vaporooter**  
1550 E Old 210 Hwy.  
Liberty, MO 64068  
800-223-3684  
thor.burmeister@douglasproducts.com  
www.vaporooter.com

Ad on page 77

**Vaughan Company, Inc.**  
364 Monte Elma Rd.  
Montesano, WA 98563  
888-249-2467 • 360-249-4042 • Fax: 360-249-6155  
info@chopperpumps.com  
www.chopperpumps.com

Ad on page 37

**VEGA Americas, Inc.**  
4170 Rosslyn Dr.  
Cincinnati, OH 45209  
800-367-5383 • 513-272-0131 • Fax: 513-272-0133  
americas@vega.com  
www.vega.com

Ad on page 67

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

Ad on page 133

**Vivax-Metrotech Corp.**  
3251 Olcott St.  
Santa Clara, CA 95054  
800-446-3392 • 408-734-1400  
info@vxmt.com  
www.vivax-metrotech.com

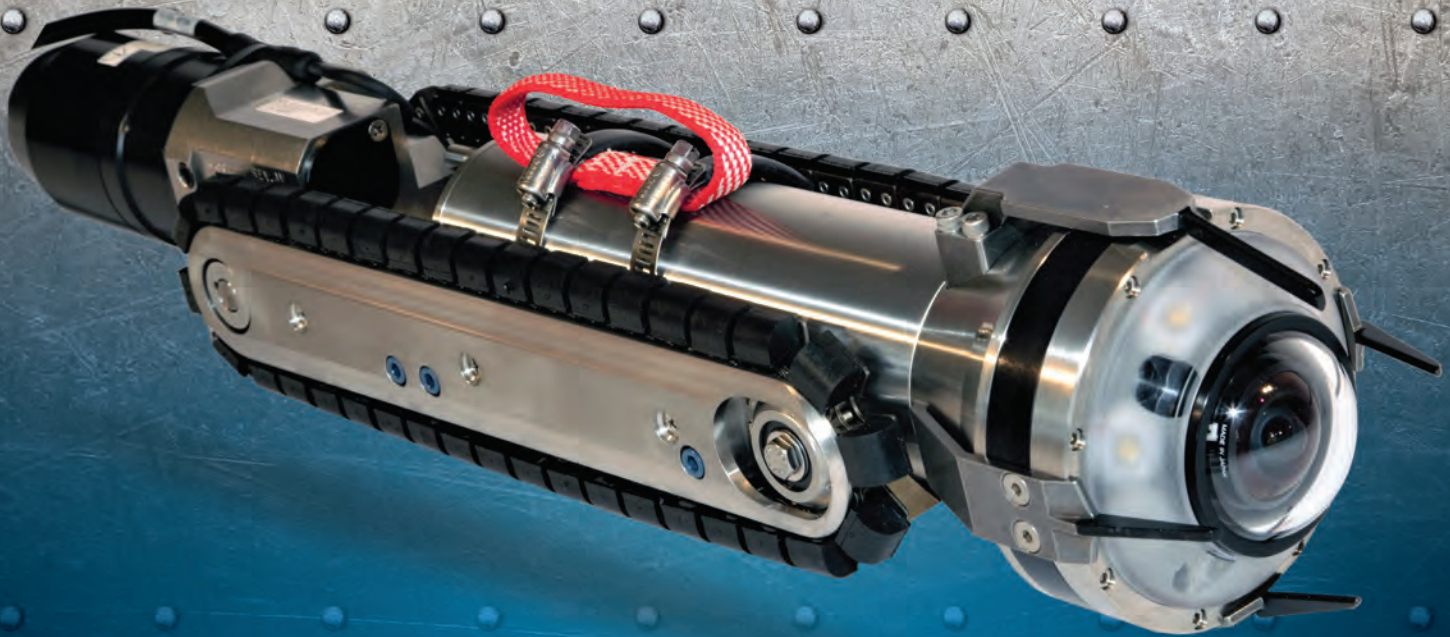
Ad on page 20

"The Standard of the Industry"



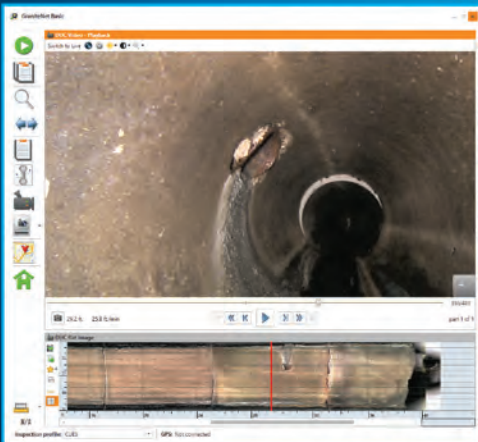
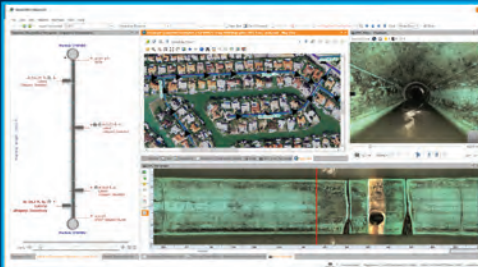
# GO THE DISTANCE

GO THE DISTANCE GO THE DISTANCE GO THE DISTANCE GO THE DISTANCE



## INCREASE PRODUCTION, DECREASE COSTS.

The CUES Digital Universal Camera (DUC) is a 360 degree, HD, digital, side-scanning camera designed for rapid and detailed assessment of your pipeline assets ranging from 6"– 60" diameter in size. The DUC can inspect 2-3 times more per day than any traditional inspection camera system, using the same number of personnel, while reducing your operating expenses. The system can be retrofitted to any industry standard multi-conductor truck or trailer-mounted system. Call CUES today for a free demo or visit one of knowledgeable Sales Managers at the upcoming WEFTEC show, September 29-October 3, in New Orleans.



Visit Us  
Booth 711



800.327.7791 | [salesinfo@cuesinc.com](mailto:salesinfo@cuesinc.com)

[www.cuesinc.com](http://www.cuesinc.com)

**Vortex Companies**  
18150 Imperial Valley Dr.  
Houston, TX 77060  
855-949-3441  
sales@vortexcompanies.com  
www.vortexcompanies.com

## » W



**Wastecorp Pumps**  
PO Box 70  
Grand Island, NY 14072  
888-829-2783 • 201-445-2882 • Fax: 888-888-3320  
info@wastecorp.com  
www.wastecorp.com

**Water Cannon, Inc. - MWBE**  
4300 W Lake Mary Blvd., Units 1010-424  
Lake Mary, FL 32746-2449  
800-333-9274 • 321-800-5763 • Fax: 888-928-9274  
sales@watercannon.com  
www.watercannon.com/catalogrequest.aspx  
**Ad on page 133**

**Whirlygig, Inc.**  
2418 Bishop Circle  
Caldwell, ID 83605  
800-307-4263 • Fax: 208-454-2093  
info@wgig.us  
www.wgig.us

**Wilo USA**  
9550 W Higgins Rd., Ste. 300  
Rosemont, IL 60018  
888-945-6872 • Fax: 888-945-6873  
info@wilo-usa.com  
www.wilo-usa.com  
**Ad on page 117**

## WinCan

**WinCan LLC**  
300 Cedar Ridge Dr., Ste. 308  
Pittsburgh, PA 15205  
877-626-8386  
sales.us@wincan.com  
www.wincan.com  
**Ad on page 7**

**WL Plastics Corp.**  
3575 Lane Star Circle, Ste. 400  
Fort Worth, TX 76177  
682-831-2700 • Fax: 682-831-2710  
wlsales@wlplastics.com  
www.wlplastics.com

**WWETT Show**  
6191 N St. Hwy. 161, Ste. 500  
Irving, TX 75038  
972-536-6477  
wwett.info@informa.com  
www.informalexhibitions.com  
**Ad on page 134**

## » Listings by Category

### Advanced Metering Infrastructure (AMI)

**Ferguson Waterworks**  
Newport News, VA  
www.ferguson.com/waterworks  
**Ad on page 69**

**Mueller Water Products**  
Atlanta, GA  
800-423-1323 • 770-206-4200  
moreinfo@muellercompany.com  
www.muellerwaterproducts.com

### Aeration Equipment/Systems

**American Pleasure Products, Inc.**  
Rose City, MI  
989-685-2697 • Fax: 989-685-8484  
info@aquacycleusa.com  
www.aquacycleusa.com  
**Ad on page 109**

### Air Excavation Equipment

 **KAISER PREMIER**  
**Kaiser Premier LLC**  
Fort Morgan, CO  
970-542-1975  
sales@kaiserpremier.com  
www.kaiserpremier.com  
**Ad on page 14**

### Alarm Systems/Components

**Cleral USA On Board Scales**  
Lodi, CA  
866-901-7372 • 209-224-7270  
www.cleral-usa.com  
**Ad on page 130**

 **Liberty Pumps**  
**Liberty Pumps**  
Bergen, NY  
800-543-2550 • 585-494-1817 • Fax: 585-494-1839  
liberty@libertypumps.com  
www.libertypumps.com

### Asset Management

  
**CUES, Inc.**  
Orlando, FL  
800-327-7791 • 407-849-0190 • Fax: 407-425-1569  
salesinfo@cuesinc.com  
www.cuesinc.com  
**Ad on page 61**

**Fleet Complete**  
Toronto, ON  
Canada  
800-220-0779 • 905-944-0863  
marketing@fleetcomplete.com  
www.fleetcomplete.com  
**Ad on page 133**

**InfoSense, Inc.**  
Charlotte, NC  
877-747-3245 • Fax: 704-930-0145  
achurchill@infosense.com  
www.infosense.com  
**Ad on page 8**

**InfoSight Corporation**  
Chillicothe, OH  
740-642-3600 • Fax: 740-642-5001  
sales@infosight.com  
www.infosight.com  
**Ad on page 91**

  
**ITpipes, LLC**  
Albuquerque, NM  
877-487-4737 • 505-341-0109  
cori@itpipes.com  
www.itpipes.com

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

**SmartCover Systems**  
Escondido, CA  
760-291-1980  
sales@smartcoversystems.com  
www.smartcoversystems.com  
**Ad on page 11**

**Tech Products, Inc.**  
Staten Island, NY  
800-221-1311 • 718-442-4900 • Fax: 718-442-2124  
info@techproducts.com  
www.techproducts.com

**WinCan LLC**  
Pittsburgh, PA  
877-626-8386  
sales.us@wincan.com  
www.wincan.com  
**Ad on page 7**

### Automatic Meter Reading (AMR)

**Ferguson Waterworks**  
Newport News, VA  
www.ferguson.com/waterworks  
**Ad on page 69**

**Mueller Water Products**  
Atlanta, GA  
800-423-1323 • 770-206-4200  
moreinfo@muellercompany.com  
www.muellerwaterproducts.com

### Automation/Optimization

 **TESCO<sup>®</sup> CONTROLS, INC.**  
**Tesco Controls, Inc.**  
Sacramento, CA  
800-948-3726 • 916-395-8800  
sales@tescocontrols.com  
tescocontrols.com

### Bacteria - Grease

**Anue Water Technologies, Inc.**  
Tucker, GA  
760-727-2683  
tchandler@anuewater.com  
www.anuewater.com

**Chempace Corporation**  
Toledo, OH  
800-423-5350 • 419-535-0101 • Fax: 419-535-0531  
tmock@chempace.com  
www.chempace.com  
**Ad on page 97**

**Simple Solutions Distributing**  
West Milford, NJ  
800-667-8465 • 973-846-7817 • Fax: 973-858-0219  
sales@industrialodorcontrol.com  
www.industrialodorcontrol.com  
**Ad on page 132**

# SpectraShield®

YOUR DEFENSE AGAINST CORROSION & INFILTRATION

## Wastewater Structure Rehabilitation



Manholes | Lift Stations | Wetwells | WWTPs

- » Rapid Installation
- » Strength & Flexibility
- » 100 year Design Life
- » Superior Return on Investment

PRODUCTS:

SpectraShield®  
SpectraPrep®  
SpectraGrout®  
SpectraPrime®  
SpectraGarde®  
SpectraCat®

1-800-284-2030 | SpectraShield.com

*Layers of quality, years of protection.*



## VAPOROOTER®

**Vaporooter**  
Liberty, MO  
800-223-3684  
thor.burmeister@douglasproducts.com  
www.vaporooter.com  
**Ad on page 77**

## Bacteria - Septic

### Chempace Corporation

Toledo, OH  
800-423-5350 • 419-535-0101 • Fax: 419-535-0531  
tmock@chempace.com  
www.chempace.com  
**Ad on page 97**

### Simple Solutions Distributing

West Milford, NJ  
800-667-8465 • 973-846-7817 • Fax: 973-858-0219  
sales@industrialodorcontrol.com  
www.industrialodorcontrol.com  
**Ad on page 132**

## Bacteria - Wastewater

### Anue Water Technologies, Inc.

Tucker, GA  
760-727-2683  
tchandler@anuewater.com  
www.anuewater.com

### Chempace Corporation

Toledo, OH  
800-423-5350 • 419-535-0101 • Fax: 419-535-0531  
tmock@chempace.com  
www.chempace.com  
**Ad on page 97**



## VAPOROOTER®

**Vaporooter**  
Liberty, MO  
800-223-3684  
thor.burmeister@douglasproducts.com  
www.vaporooter.com  
**Ad on page 77**

## Bacteria/Chemicals - Grease

### Bionetix International

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



### RootX

Salem, OR  
800-844-4974 • 503-364-2999 • Fax: 503-485-5229  
rootx@rootx.com  
www.rootx.com  
**Ad on page 57**

### Safe-Tee Chemical Company

Scottsdale, AZ  
866-366-0587 • 480-968-6828 • Fax: 480-968-6776  
service@safetechemical.com  
www.safetechemical.com  
**Ad on page 132**

## Bacteria/Chemicals - Septic

### Bionetix International

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

## Bacteria/Chemicals - Wastewater

### Bionetix International

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

## Box Culverts

### HydraTech Engineered Products

Cincinnati, OH  
513-827-9169 • Fax: 513-827-9171  
info@hydrattechllc.com  
www.hydrattechllc.com

## Bucket Machines

### Sewer Equipment

Dixon, IL  
888-477-7611 • Fax: 815-284-0453  
sales@sewerequipment.com  
www.sewerequipment.com  
**Ad on page 13**

### Southland Tool Mfg. Inc.

Anaheim, CA  
714-632-8198 • Fax: 714-632-8228  
sales@southlandtool.com  
www.southlandtool.com  
**Ad on page 129**

## Cable Drain Cleaning Machines



### Electric Eel Mfg.

Springfield, OH  
800-833-1212 • 937-323-4644 • Fax: 937-323-3767  
info@electriceel.com  
www.electriceel.com  
**Ad on page 133**

### Enz USA Inc.

Aurora, IL  
877-362-8721 • 630-692-7880 • Fax: 630-692-7885  
salesusa@enz.com  
www.enzusa.com  
**Ad on page 83**

### General Pipe Cleaners/General Wire Spring

McKees Rocks, PA  
800-245-6200 • 412-771-6300  
info@drainbrain.com  
www.drainbrain.com  
**Ad on page 31**



### MyTana Manufacturing

St. Paul, MN  
800-328-8170 • 651-222-1738 • Fax: 651-222-1739  
mytana@mytana.com  
www.mytana.com



### Spartan Tool

Mendota, IL  
800-435-3866  
sales@spartantool.com  
www.spartantool.com

## Cable/Cable Attachments

### Dynamic Repairs

Lodi, NJ  
973-478-0893 • Fax: 973-478-0895  
dynamicablerepairs@yahoo.com  
www.dynamicrepairs.biz  
**Ad on page 131**



### General Pipe Cleaners/General Wire Spring

McKees Rocks, PA  
800-245-6200 • 412-771-6300  
info@drainbrain.com  
www.drainbrain.com  
**Ad on page 31**

### MyTana Manufacturing

St. Paul, MN  
800-328-8170 • 651-222-1738 • Fax: 651-222-1739  
mytana@mytana.com  
www.mytana.com



### Spartan Tool

Mendota, IL  
800-435-3866  
sales@spartantool.com  
www.spartantool.com

### Uticom Systems, Inc.

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

## Camera Tractor Wheels

### Aries Industries, Inc.

Waukesha, WI  
800-234-7205 • 262-896-7205 • Fax: 262-896-7099  
sales@ariesindustries.com  
www.ariesindustries.com  
**Ad on page 27**

### Cua Claws

Twenty-nine Palms, CA  
714-697-8697  
jerry@cuaclaws.com  
www.cuaclaws.com  
**Ad on page 132**



### CUES, Inc.

Orlando, FL  
800-327-7791 • 407-849-0190 • Fax: 407-425-1569  
salesinfo@cuesinc.com  
www.cuesinc.com  
**Ad on page 61**

### Envirosight

Randolph, NJ  
866-936-8476 • 973-252-6700 • Fax: 973-252-1176  
office@envirosight.com  
www.envirosight.com  
**Ad on page 2**

### Ratech Electronics, Ltd.

Concord, ON  
Canada  
800-461-9200 • 905-660-7072 • Fax: 905-660-1519  
sales@ratech-electronics.com  
www.ratech-electronics.com

### Subsite Electronics

Perry, OK  
800-846-2713  
sales@subsite.com  
www.subsite.com



### TruGrit Traction Inc.

Winter Park, FL  
407-900-1091  
info@trugrittraction.com  
www.TruGritTraction.com

## Catch Basin Cleaners

### Jack Doheny Companies

Northville, MI  
800-336-4369  
info@dohenycompanies.com  
www.dohenycompanies.com

### McLaughlin Underground

Greenville, SC  
864-277-5870  
mmole@mightymole.com  
www.mclaughlinunderground.com





# DEEP TREKKER™

**DT340 PIPE CRAWLER:  
IT'S THE MOST  
VERSATILE  
PIPE INSPECTION  
SYSTEM ON  
THE MARKET.**

#### **ADAPTABLE TO ANY PIPE ENVIRONMENT.**

When inspecting a pipe, you never know what you're going to run into. The DT340 Pipe Crawler was designed to handle the most extreme conditions!

#### **Simple To Operate**

- Hand held control console
- Responsive speed control
- Steerable wheels
- Thin, but tough tether with pivoting connection
- Internal batteries, lasting up to 8 hours

#### **All-Terrain Ready**

- Interchangeable wheel and track options
- Magnetically coupled wheel drives

#### **Fully Submersible**

- Designed after Deep Trekker's deep water ROV's
- Anodized die-cast aluminum and stainless steel body
- Completely sealed system

**VORTEX**  
companies

Authorized US Reseller

[sales@vortexcompanies.com](mailto:sales@vortexcompanies.com)  
[vortexcompanies.com](http://vortexcompanies.com)

**1-855-WHYDIG1**

## MTech

Cleveland, OH  
800-362-0240 • 440-646-0996 • Fax: 440-646-9953  
sales@mttechcompany.com  
www.mtechcompany.com

Ad on page 130



## Rock Creek MFG, LLC

Wister, OK  
918-385-1530 • Fax: 918-647-9240  
obahannon@windstream.net  
www.grabbitomo.com

## Sewer Equipment

Dixon, IL  
888-477-7611 • Fax: 815-284-0453  
sales@sewerequipment.com  
www.sewerequipment.com

Ad on page 13

## Sewer Equipment Co. of Florida

New Smyrna Beach, FL  
800-635-2323 • 386-428-3303 • Fax: 386-427-4552  
csewerequisite@cfi.fl.com  
www.sewerequisiteco.com

Ad on page 130

## Southland Tool Mfg. Inc.

Anaheim, CA  
714-632-8198 • Fax: 714-632-8228  
sales@southlandtool.com  
www.southlandtool.com

Ad on page 129

## Super Products LLC

New Berlin, WI  
800-837-9711 • 262-784-7100  
info@superproductsllc.com  
www.superproductsllc.com

Ad on page 73



## Vac-Con, Inc.

Green Cove Springs, FL  
904-284-4200 • Fax: 904-284-3305  
vns@vac-con.com  
www.vac-con.com

Ad on page 136

## Vac-Tron Equipment

Okahumpka, FL  
352-728-2222  
sales@vacatron.com  
www.vacatron.com



## Vacall

New Philadelphia, OH  
800-382-8302 • Fax: 330-339-8468  
mtnorman@gradall.com  
www.vacall.com

Ad on page 55

## Vector Manufacturing

Streator, IL  
800-627-3171 • 815-672-3171  
sales@vactor.com  
www.vactor.com

Ad on page 3

## Vacuum Sales, Inc.

Lindenwood, NJ  
800-547-7790 • 856-627-7790 • Fax: 856-627-3044  
sales@vacuumsalesinc.com  
www.vacuumsalesinc.com

## Catch Basin Filter

### Advanced Drainage Systems, Inc.

Hilliard, OH  
800-821-6710 • Fax: 614-658-0204  
info@ads-pipe.com  
www.ads-pipe.com

### American Sewer Parts & Cleaning

Menomonee Falls, WI  
800-666-0766 • 262-783-6666 • Fax: 262-783-4860  
sales@americansewerparts.com  
www.americansewerparts.com

Ad on page 21

### Best Management Products, Inc.

East Haddam, CT  
800-504-8008 • 410-687-6256 • Fax: 877-434-3197  
tjm@bmpinc.com  
www.bmpinc.com

Ad on page 95

## Catch Basins

### Advanced Drainage Systems, Inc.

Hilliard, OH  
800-821-6710 • Fax: 614-658-0204  
info@ads-pipe.com  
www.ads-pipe.com

### American Highway Products Ltd.

Bolivar, OH  
888-272-2397 • 330-874-3270 • Fax: 330-874-3800  
sales@ahp1.com  
www.ahp1.com

Ad on page 95

### Fibertech Inc.

Elberfeld, IN  
800-304-4600 • 812-983-2642 • Fax: 812-983-4953  
www.fibertechinc.net



### LADTECH, Inc.

Buffalo, MN  
877-235-7464 • Fax: 651-415-1090 • Fax: 651-415-1090  
adjring@ladtech.com  
www.ladtech.com

Ad on page 91

### Root Rat

Bolivar, OH  
800-288-7873 • 330-874-4300 • Fax: 330-874-4448  
chempure@gmail.com  
www.rootrat.net

Ad on page 109

### Whirlygig, Inc.

Caldwell, ID  
800-307-4263 • Fax: 208-454-2093  
info@wgig.us  
www.wgig.us

## Chemicals - Cleaning

### Anue Water Technologies, Inc.

Tucker, GA  
760-727-2683  
tchandler@anuewater.com  
www.anuewater.com

### Bionetix International

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

### Chempace Corporation

Toledo, OH  
800-423-5350 • 419-535-0101 • Fax: 419-535-0531  
tmock@chempace.com  
www.chempace.com

Ad on page 97

### Safe-Tee Chemical Company

Scottsdale, AZ  
866-366-0587 • 480-968-6828 • Fax: 480-968-6776  
service@safetechemical.com  
www.safetechemical.com

Ad on page 132



## VAPOROOTER®

### Vaporooter

Liberty, MO  
800-223-3684  
thor.burmeister@douglasproducts.com  
www.vaporooter.com

Ad on page 77

## Chemicals - Wastewater Treatment

### Anue Water Technologies, Inc.

Tucker, GA  
760-727-2683  
tchandler@anuewater.com  
www.anuewater.com

### Bionetix International

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

### CHEMetrics, Inc.

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

### Chempace Corporation

Toledo, OH  
800-423-5350 • 419-535-0101 • Fax: 419-535-0531  
tmock@chempace.com  
www.chempace.com

Ad on page 97

### Simple Solutions Distributing

West Milford, NJ  
800-667-8465 • 973-846-7817 • Fax: 973-858-0219  
sales@industrialodorcontrol.com  
www.industrialodorcontrol.com

Ad on page 132

## Chemicals - Water Treatment

### Anue Water Technologies, Inc.

Tucker, GA  
760-727-2683  
tchandler@anuewater.com  
www.anuewater.com

### CHEMetrics, Inc.

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

## CIPP Equipment and Materials



## APPLIED FELTS

YOUR SUCCESS IS OUR SUCCESS

### Applied Felts, Inc.

Martinsville, VA  
276-656-1904  
info@appliedfelts.com  
appliedfelts.com

Ad on page 35

### Aries Industries, Inc.

Waukesha, WI  
800-234-7205 • 262-896-7205 • Fax: 262-896-7099  
sales@ariesindustries.com  
www.ariesindustries.com

Ad on page 27



### Emagineered Solutions, Inc.

Redmond, OR  
541-504-0416  
roy.i@emagineered.com  
www.theshootercipp.com



### Ferratex, Inc.

Livingston, NJ  
973-609-5449  
justing@ferratex.com  
www.ferratex.com

### HammerHead Trenchless

Lake Mills, WI  
800-331-6653 • 920-648-4848  
www.hammerheadtrenchless.com

Ad on page 79



### Inliner Technologies

Paoli, IN  
812-723-0704  
info@inliner.com  
www.inliner.com

Ad on page 19

Looking Forward **VEGA**

High functionality.  
Low maintenance.

The VEGAPULS WL 61 radar sensor accurately measures water level without contact, saving users time and money in reduced maintenance.

[www.vega.com](http://www.vega.com)

**WEFTEC booth #7013**



**Linabond, Inc.**  
Camarillo, CA  
805-484-7373  
info@linabond.com  
www.linabond.com



**Liner Products**  
Paoli, IN  
812-723-0244  
info@linerproducts.com  
www.linerproducts.com  
**Ad on page 47**

**LMK Technologies**  
Ottawa, IL  
815-640-9302 • Fax: 815-433-0107  
info@lmktechnologies.com  
www.lmktechnologies.com  
**Ad on page 127**

**Miller Pipeline**  
Indianapolis, IN  
800-428-3742 • 317-293-0278 • Fax: 317-653-5200  
info@millerpipeline.com  
www.millerpipeline.com  
**Ad on page 10**

**Neopoxy International, Inc.**  
Hayward, CA  
510-782-1290 • Fax: 510-782-1292  
epoxy@neopoxy.us  
www.neopoxy.us  
**Ad on page 133**

**Perma-Liner Industries, LLC**  
Clearwater, FL  
866-336-2568 • 727-507-9749 • Fax: 727-507-9849  
info@perma-liner.com  
www.perma-liner.com  
**Ad on page 5**

**Pipeline Renewal Technologies**  
Randolph, NJ  
866-936-8476 • 973-252-6700 • Fax: 973-252-1176  
mail@pipelinert.com  
www.pipelinert.com  
**Ad on page 33**

**Reline America, Inc.**  
Saltville, VA  
866-998-0808 • 276-496-4000  
info@relineamerica.com  
www.relineamerica.com  
**Ad on page 101**

**SAERTEX multiCom LP**  
Huntersville, NC  
704-946-9229 • Fax: 704-464-5922  
multicom@saertex.com  
www.saertex-multicom.com  
**Ad on page 34**

**Vanair**  
Michigan City, IN  
800-526-8817 • 219-879-5100 • Fax: 219-879-5800  
marketing@vanair.com  
www.vanair.com  
**Ad on page 45**

## Coatings/Linings/Sealants

**AP/M Permaform**  
Johnston, IA  
800-662-6465 • 515-276-9610 • Fax: 515-276-1274  
info@permaform.net  
www.permaform.net  
**Ad on page 83**

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

**HammerHead Trenchless**  
Lake Mills, WI  
800-331-6653 • 920-648-4848  
www.hammerheadtrenchless.com  
**Ad on page 79**

**HIPPO Multipower**  
Riverside, MO  
800-844-0624 • 816-474-4643  
hippo@hippomultipower.com  
www.hippomultipower.com  
**Ad on page 25**

**HydraTech Engineered Products**  
Cincinnati, OH  
513-827-9169 • Fax: 513-827-9171  
info@hydrattechllc.com  
www.hydrattechllc.com

**Infrastructure Repair Systems, Inc.**  
St. Petersburg, FL  
877-327-4216 • Fax: 877-327-4118  
irsi@irsi.net  
www.irsi.net

**Linabond, Inc.**  
Camarillo, CA  
805-484-7373  
info@linabond.com  
www.linabond.com

**LMK Technologies**  
Ottawa, IL  
815-640-9302 • Fax: 815-433-0107  
info@lmktechnologies.com  
www.lmktechnologies.com  
**Ad on page 127**



**Miller Pipeline**  
Indianapolis, IN  
800-428-3742 • 317-293-0278 • Fax: 317-653-5200  
info@millerpipeline.com  
www.millerpipeline.com  
**Ad on page 10**

**Neopoxy International, Inc.**  
Hayward, CA  
510-782-1290 • Fax: 510-782-1292  
epoxy@neopoxy.us  
www.neopoxy.us  
**Ad on page 133**

**Parson Environmental Products, Inc.**  
Wernersville, PA  
800-356-9023 • 610-582-6060 • Fax: 610-582-6064  
info@parsonenvironmental.com  
www.parsonenvironmental.com

**Perma-Liner Industries, LLC**  
Clearwater, FL  
866-336-2568 • 727-507-9749 • Fax: 727-507-9849  
info@perma-liner.com  
www.perma-liner.com  
**Ad on page 5**

**Raven Lining Systems**  
Broken Arrow, OK  
800-324-2810 • 918-615-0020  
cookr@ravenlining.com  
www.ravenlining.com  
**Ad on page 89**

**SAERTEX multiCom LP**  
Huntersville, NC  
704-946-9229 • Fax: 704-464-5922  
multicom@saertex.com  
www.saertex-multicom.com  
**Ad on page 34**

**Sauereisen, Inc.**  
Pittsburgh, PA  
412-963-0303 • Fax: 412-963-7620  
info@sauereisen.com  
www.sauereisen.com  
**Ad on page 105**

**Sewer Shield Composite LLC**  
Mesa, AZ  
480-830-9537  
info@sewershieldcomposites.com  
www.sewershieldcomposites.com

**SpectraShield Liner Systems**  
Jacksonville, FL  
800-284-2030 • 904-419-4889 • Fax: 904-419-4892  
info@spectrashield.com  
www.spectrashield.com  
**Ad on page 63**

**Vortex Companies**  
Houston, TX  
855-949-3441  
sales@vortexcompanies.com  
www.vortexcompanies.com

**Wilo USA**  
Rosemont, IL  
888-945-6872 • Fax: 888-945-6873  
info@wilo-usa.com  
www.wilo-usa.com  
**Ad on page 117**

## Communication Equipment

**Sonetics**  
Portland, OR  
800-833-4558 • 503-684-7080 • Fax: 503-620-2943  
sales@soneticscorp.com  
www.soneticscorp.com  
**Ad on page 75**

## Consulting/Engineering

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

**KEG Technologies, Inc.**  
Spartanburg, SC  
866-595-0515 • 864-804-6637  
sales@kegtechnologies.net  
www.kegtechnologies.net

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

**LADTECH, Inc.**  
Buffalo, MN  
877-235-7464 • Fax: 651-415-1090 • Fax: 651-415-1090  
adjring@ladtech.com  
www.ladtech.com  
**Ad on page 91**

**TESCO<sup>®</sup> CONTROLS, INC.**  
**Tesco Controls, Inc.**  
Sacramento, CA  
800-948-3726 • 916-395-8800  
sales@tescocontrols.com  
tescocontrols.com



# METER & AUTOMATION

**FERGUSON**  
WATERWORKS

## **Advanced metering is better for your bottom line.**

Advancements in metering technology allow agencies and departments to keep a close eye on their balance sheets through efficient and comprehensive Automated Meter Reading, reduced tampering, fewer errors and more consistent billing cycles.

- Proprietary installation software
- Web-based installation tracking
- 24/7 live answering service

**For more information, email [meters@ferguson.com](mailto:meters@ferguson.com)**

Find the closest waterworks location near you by visiting  
**[FERGUSON.COM/WATERWORKS](http://FERGUSON.COM/WATERWORKS)**

## Uticom Systems, Inc.

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

## Cranes/Hoists/ Winches

### LaValley Industries

Bemidji, MN  
218-444-3030 • Fax: 218-444-9900  
infocenter@lavalleyindustries.com  
www.lavalleyindustries.com



### Rock Creek MFG, LLC

Wister, OK  
918-385-1530 • Fax: 918-647-9240  
obahannon@windstream.net  
www.grabbitomo.com

### Sto-Away Power Cranes, Inc.

Crown Point, IN  
800-622-9797 • 219-942-9797 • Fax: 219-947-2503  
stoaway@comcast.net  
www.stoaway.com

Ad on page 123

## Data Loggers/ Management

### Endress+Hauser

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

### Hach - Flow Products & Services

Loveland, CO  
800-368-2723  
www.hachflow.com

Ad on page 53



### Hermann Sewerin GmbH

33334 Gutersloh  
Germany  
888-592-9916 • Fax: 495241934444  
sewerin-usa@sewerin.net  
www.sewerin.com

Ad on page 26

### Hurco Technologies, Inc.

Harrisburg, SD  
800-888-1436 • 605-743-2466  
info@hurcotech.com  
www.hurcotech.com

Ad on page 24

### InfoSight Corporation

Chillicothe, OH  
740-642-3600 • Fax: 740-642-5001  
sales@infosight.com  
www.infosight.com

Ad on page 91

### PRIMEX

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

### Telog, A Trimble Company

Victor, NY  
585-742-3000 • Fax: 585-742-3006  
ContactUs@trimble.com  
www.trimblewater.com

## Detection Equipment

### Endress+Hauser

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



### Hermann Sewerin GmbH

33334 Gutersloh  
Germany  
888-592-9916 • Fax: 495241934444  
sewerin-usa@sewerin.net  
www.sewerin.com

Ad on page 26

### InfoSense, Inc.

Charlotte, NC  
877-747-3245 • Fax: 704-930-0145  
achurchill@infosense.com  
www.infosense.com

Ad on page 8

### Schonstedt Instrument Company

Kearneysville, WV  
800-999-8280 • 304-725-1050  
info@schonstedt.com  
www.schonstedt.com

### SmartCover Systems

Escondido, CA  
760-291-1980  
sales@smartcoversystems.com  
www.smartcoversystems.com

Ad on page 11



### SubSurface Instruments, Inc.

De Pere, WI  
855-422-6346 • 920-347-1788 • Fax: 920-347-1791  
paul.renard@ssilocators.com  
www.ssilocators.com

Ad on page 131

### Superior Signal Company LLC

Spotswood, NJ  
800-945-8378 • 732-251-0800 • Fax: 732-251-9442  
info@superiorsignal.com  
www.superiorsignal.com/msw

Ad on page 133

### Vivax-Metrotech Corp.

Santa Clara, CA  
800-446-3392 • 408-734-1400  
info@vxmt.com  
www.vivax-metrotech.com

Ad on page 20

## Dewatering Equipment



### Enviro-Care Company

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

### Hastings Irrigation Pipe Co.

Hastings, NE  
800-759-8823 • 402-463-6633 • Fax: 402-463-4355  
www.hastingsirrigation.com

### Komline-Sanderson

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

Ad on page 87

### Milwaukee Rubber Products, Inc.

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

Ad on page 131

### Park Process

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

Ad on page 133

### Smith & Loveless, Inc.

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

### Vertiflo Pump Company

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

Ad on page 133



### Wastecorp Pumps

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

## DI Fabrication

### Foundry Services Co.

Omaha, NE  
402-451-0674 • Fax: 402-457-6710  
kkempf@foundryservicesco.com  
www.foundryservicesco.com

Ad on page 93

## Dredging Equipment

### Elastec

Carmi, IL  
618-382-2525 • Fax: 618-382-3610  
elastec@elastec.com  
www.elastec.com

Ad on page 85

### Greyline Instruments

Largo, FL  
888-473-9546 • 315-788-9500 • Fax: 315-764-0419  
info@greyline.com  
www.greyline.com

Ad on page 20

### Hastings Irrigation Pipe Co.

Hastings, NE  
800-759-8823 • 402-463-6633 • Fax: 402-463-4355  
www.hastingsirrigation.com

## Easement Machine

### 3T Equipment Co. Inc.

Santa Rosa, CA  
707-543-8555 • Fax: 707-543-8558  
tk3tequip@aol.com  
www.3tequipco.com

Ad on page 123

### Jack Doheny Companies

Northville, MI  
800-336-4369  
info@dohenycompanies.com  
www.dohenycompanies.com



### K&W Products, Inc.

Elberta, AL  
800-503-0076 • 251-986-7900 • Fax: 251-986-7902  
sales@kwproducts.net  
www.kwmiequipment.com

Ad on page 131

### MTech

Cleveland, OH  
800-362-0240 • 440-646-0996 • Fax: 440-646-9953  
sales@mtechcompany.com  
www.mtechcompany.com

Ad on page 130

### Sewer Equipment

Dixon, IL  
888-477-7611 • Fax: 815-284-0453  
sales@sewerequipment.com  
www.sewerequipment.com

Ad on page 13

# All You Need is One

Rausch L 135 Tractor  
& LATRAS Lateral Tracking



## One Tractor for Every Application

### Introducing the LATRAS Lateral Tracking System

With all Rausch systems, there is only one tractor required for all pipe inspection applications. The brand new LATRAS upgrade connects to the same L 135 tractor, and is used for the automatic measuring and graphic documentation of the entire pipe laterals.

The system's control electronics capture the direction of motion of the LATRAS sensor head behind the digital lateral camera, KS 60 DB. These coordinates are registered constantly in parallel with the inspection and allow the documentation of the laterals at the same time without any significant additional work for the operator.

The same system is used for Mainline Inspection, Lateral Launching, Laser Profiling, Lateral Jetting, Joint Inspection, Panomorphic Inspections, and large pipe inspections up to 96" with one tractor.

**Unequaled Quality.**



Schedule a demo today | 877-Rausch1 (877-728-7241)

[www.rauschusa.com](http://www.rauschusa.com)

weftec | 2018  
Booth 1606

**rausch** USA

## Education

### Enz USA Inc.

Aurora, IL  
877-362-8721 • 630-692-7880 • Fax: 630-692-7885  
salesusa@enz.com  
www.enzusainc.com  
**Ad on page 83**

### Jack Doheny Companies

Northville, MI  
800-336-4369  
info@dohenycompanies.com  
www.dohenycompanies.com

### KEG Technologies, Inc.

Spartanburg, SC  
866-595-0515 • 864-804-6637  
sales@kegtechnologies.net  
www.kegtechnologies.net

### LMK Technologies

Ottawa, IL  
815-640-9302 • Fax: 815-433-0107  
info@lmktechnologies.com  
www.lmktechnologies.com  
**Ad on page 127**

### NozzTeq Inc.

Clearwater, FL  
866-620-5915 • 727-223-4979 • Fax: 603-413-6744  
info@nozzteq.com  
www.nozzteq.com  
**Ad on page 107**

### WWETT Show

Irving, TX  
972-536-6477  
wwett.info@informa.com  
www.informae Exhibitions.com  
**Ad on page 134**

## Epoxy Coatings

### AP/M Permaform

Johnston, IA  
800-662-6465 • 515-276-9610 • Fax: 515-276-1274  
info@permaform.net  
www.permaform.net  
**Ad on page 83**

### CCI Pipeline Systems

Breaux Bridge, LA  
800-867-2772 • 337-332-5808 • Fax: 337-332-5809  
sales@ccipipe.com  
www.ccipipe.com  
**Ad on page 99**

### Environmental Coatings LLC

Mesa, AZ  
480-984-7608  
info@sewershield.com  
www.sewershield.com

### HydraTech Engineered Products

Cincinnati, OH  
513-827-9169 • Fax: 513-827-9171  
info@hydrattechllc.com  
www.hydrattechllc.com

### Infrastructure Repair Systems, Inc.

St. Petersburg, FL  
877-327-4216 • Fax: 877-327-4118  
irsi@irsi.net  
www.irsi.net

### Linabond, Inc.

Camarillo, CA  
805-484-7373  
info@linabond.com  
www.linabond.com

### Neopoxy International, Inc.

Hayward, CA  
510-782-1290 • Fax: 510-782-1292  
epoxy@neopoxy.us  
www.neopoxy.us  
**Ad on page 133**

### Raven Lining Systems

Broken Arrow, OK  
800-324-2810 • 918-615-0020  
cookr@ravenlining.com  
www.ravenlining.com  
**Ad on page 89**

### Sauereisen, Inc.

Pittsburgh, PA  
412-963-0303 • Fax: 412-963-7620  
info@sauereisen.com  
www.sauereisen.com  
**Ad on page 105**

### Vortex Companies

Houston, TX  
855-949-3441  
sales@vortexcompanies.com  
www.vortexcompanies.com

## Erosion Control

### Advanced Drainage Systems, Inc.

Hilliard, OH  
800-821-6710 • Fax: 614-658-0204  
info@ads-pipe.com  
www.ads-pipe.com

### Sealing Systems, Inc.

Loretto, MN  
800-478-2054 • 763-478-2057 • Fax: 763-478-8868  
pam@ssisealingsystems.com  
www.ssisealingsystems.com  
**Ad on page 103**

## Excavating Equipment

### Kaiser Premier LLC

Fort Morgan, CO  
970-542-1975  
sales@kaiserpremier.com  
www.kaiserpremier.com  
**Ad on page 14**

### LaValley Industries

Bemidji, MN  
218-444-3030 • Fax: 218-444-9900  
info@lavalleyindustries.com  
www.lavalleyindustries.com

### McLaughlin Underground

Greenville, SC  
864-277-5870  
mmole@mighnymole.com  
www.mclaughlinunderground.com

### Sonetics

Portland, OR  
800-833-4558 • 503-684-7080 • Fax: 503-620-2943  
sales@soneticscorp.com  
www.soneticscorp.com  
**Ad on page 75**

### Super Products LLC

New Berlin, WI  
800-837-9711 • 262-784-7100  
info@superproductsllc.com  
www.superproductsllc.com  
**Ad on page 73**

### Suttner America Company

Dubuque, IA  
800-831-0660  
sales@suttner.com  
www.suttner.com

### Vac-Tron Equipment

Okahumpka, FL  
352-728-2222  
sales@vacatron.com  
www.vacatron.com

## VACALL™

### Vacall

New Philadelphia, OH  
800-382-8302 • Fax: 330-339-8468  
mnorman@gradall.com  
www.vacall.com  
**Ad on page 55**

## Filters – Wastewater

### Komline-Sanderson

Peapack, NJ  
800-225-5457 • 908-234-1000 • Fax: 908-234-9487  
info@komline.com  
www.komline.com  
**Ad on page 87**

### Park Process

Houston, TX  
855-511-7275 • 713-937-7602 • Fax: 713-937-4254  
rcaughman@park-usa.com  
www.parkprocess.com  
**Ad on page 133**

### Simple Solutions Distributing

West Milford, NJ  
800-667-8465 • 973-846-7817 • Fax: 973-858-0219  
sales@industrialodorcontrol.com  
www.industrialodorcontrol.com  
**Ad on page 132**

### Smith & Loveless, Inc.

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

## Fittings – Pressure

### Multi Fittings Corp.

London, ON  
Canada  
800-265-1815 • 519-681-2140 • Fax: 519-681-2156  
david.rymer@multifittings.com  
www.multifittings.com  
**Ad on page 59**

## Fittings – Sewer & Drain

### Advanced Drainage Systems, Inc.

Hilliard, OH  
800-821-6710 • Fax: 614-658-0204  
info@ads-pipe.com  
www.ads-pipe.com

### Dallas Specialty & Mfg. Co.

Grand Prairie, TX  
800-222-5644 • 972-641-8444 • Fax: 972-641-8488  
mike@dalspc.com  
www.dallaspecialty.com

### IPEX USA LLC

Oakville, ON  
Canada  
800-463-9572 • 289-881-0120 • Fax: 905-403-1124  
marketing@ipexna.com  
www.ipexna.com  
**Ad on page 41**



### LADTECH, Inc.

Buffalo, MN  
877-235-7464 • Fax: 651-415-1090 • Fax: 651-415-1090  
adjring@ladtech.com  
www.ladtech.com  
**Ad on page 91**

### Multi Fittings Corp.

London, ON  
Canada  
800-265-1815 • 519-681-2140 • Fax: 519-681-2156  
david.rymer@multifittings.com  
www.multifittings.com  
**Ad on page 59**

### Simple Solutions Distributing

West Milford, NJ  
800-667-8465 • 973-846-7817 • Fax: 973-858-0219  
sales@industrialodorcontrol.com  
www.industrialodorcontrol.com  
**Ad on page 132**

### Suttner America Company

Dubuque, IA  
800-831-0660  
sales@suttner.com  
www.suttner.com

### Vacuum Sales, Inc.

Lindenwold, NJ  
800-547-7790 • 856-627-7790 • Fax: 856-627-3044  
sales@vacuumsalesinc.com  
www.vacuumsalesinc.com



# Camel Maxxx<sup>®</sup>

## 12 Yard Sewer and Catch Basin Cleaner

- ◆ A large 7-inch display on the front control panel operates a number of functions including vacuum and engine speed; water flow and pressure; emergency stop switch; LED panel lights; and panel controls
- ◆ A heavy-duty transfer case with a hot shift blower control at front operator's station, eliminating trips back inside the cab to turn the vacuum pump on and off
- ◆ Front-mounted hose reel extends 18 inches and capable of 270 degree rotation including when fully retracted, lockable in any position
- ◆ Also available with Camel's wastewater recycling system. Fill it once; work all day.

*Learn more about the Camel Maxxx 1200 today!*



**Super Products**  
TRUCK MOUNTED VACUUM EQUIPMENT

800.837.9711 • [www.superproductsllc.com](http://www.superproductsllc.com)

## Fittings - Vacuum



### American Sewer Parts & Cleaning

Menomonee Falls, WI  
800-666-0766 • 262-783-6666 • Fax: 262-783-4860  
sales@americansewerparts.com  
www.americansewerparts.com

Ad on page 21

### GapVax, Inc.

Johnstown, PA  
888-442-7829 • 814-535-6766 • Fax: 814-539-3617  
inquiry@gapvax.com  
www.gapvax.com

Ad on page 135

### Hastings Irrigation Pipe Co.

Hastings, NE  
800-759-8823 • 402-463-6633 • Fax: 402-463-4355  
www.hastingsirrigation.com

### Milwaukee Rubber Products, Inc.

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

Ad on page 131

## Fleet Management

### Fleet Complete

Toronto, ON  
Canada  
800-220-0779 • 905-944-0863  
marketing@fleetcomplete.com  
www.fleetcomplete.com

Ad on page 133

## Flow Control/ Monitoring



### ADS Environmental Services

Huntsville, AL  
800-633-7246 • 256-430-3366 • Fax: 256-430-6633  
adssales@idexcorp.com  
www.adsenv.com

Ad on page 9, 115



### Blue-White Industries

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

Ad on page 43

### Endress+Hauser

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

### Greyline Instruments

Largo, FL  
888-473-9546 • 315-788-9500 • Fax: 315-764-0419  
info@greyline.com  
www.greyline.com

Ad on page 20

### Hach - Flow Products & Services

Loveland, CO  
800-368-2723  
www.hachflow.com

Ad on page 53

### Mueller Water Products

Atlanta, GA  
800-423-1323 • 770-206-4200  
moreinfo@muellercompany.com  
www.muellerwaterproducts.com

### PRIMEX

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



### Sierra Instruments, Inc.

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

### Singer

Surrey, BC  
Canada  
888-764-7858 • 604-594-5404 • Fax: 604-594-8845  
singer@singervolve.com  
www.singervolve.com

Ad on page 24

### SmartCover Systems

Escondido, CA  
760-291-1980  
sales@smartcoversystems.com  
www.smartcoversystems.com

Ad on page 11

### Telog, A Trimble Company

Victor, NY  
585-742-3000 • Fax: 585-742-3006  
ContactUs@trimble.com  
www.trimblewater.com



### Tesco Controls, Inc.

Sacramento, CA  
800-948-3726 • 916-395-8800  
sales@tescocontrols.com  
tescocontrols.com

### Universal Flow Monitors, Inc.

Hazel Park, MI  
888-569-3090 • 248-542-9635 • Fax: 248-398-4274  
sales@flowmeters.com  
www.flowmeters.com

## Gas Monitors/ Detection



### Hermann Sewerin GmbH

33334 Gutersloh  
Germany  
888-592-9916 • Fax: 495241934444  
sewerin-usa@sewerin.net  
www.sewerin.com

Ad on page 26

### Milwaukee Rubber Products, Inc.

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

Ad on page 131

### MTEch

Cleveland, OH  
800-362-0240 • 440-646-0996 • Fax: 440-646-9953  
sales@mtechcompany.com  
www.mtechcompany.com

Ad on page 130

### Sewer Equipment Co. of Florida

New Smyrna Beach, FL  
800-635-2323 • 386-428-3303 • Fax: 386-427-4552  
csewreqquipment@cfl.rr.com  
www.sewerequipmentco.com

Ad on page 130

### Sierra Instruments, Inc.

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

### Universal Flow Monitors, Inc.

Hazel Park, MI  
888-569-3090 • 248-542-9635 • Fax: 248-398-4274  
sales@flowmeters.com  
www.flowmeters.com

## Generators/ Air Compressors

### HIPPO Multipower

Riverside, MO  
800-844-0624 • 816-474-4643  
hippo@hippomultipower.com  
www.hippomultipower.com

Ad on page 25

### Kohler Power Systems

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



### Vanair

Michigan City, IN  
800-526-8817 • 219-879-5100 • Fax: 219-879-5800  
marketing@vanair.com  
www.vanair.com

Ad on page 45

## Grease Handling Equipment

### Anue Water Technologies, Inc.

Tucker, GA  
760-727-2683  
tchandler@anuewater.com  
www.anuewater.com



### NozzTeq Inc.

Clearwater, FL  
866-620-5915 • 727-223-4979 • Fax: 603-413-6744  
info@nozzteq.com  
www.nozzteq.com  
Ad on page 107

### Safetee Chemical Company

Scottsdale, AZ  
866-366-0587 • 480-968-6828 • Fax: 480-968-6776  
service@safeteechemical.com  
www.safeteechemical.com

Ad on page 132

## Grease Interceptors

### Advanced Drainage Systems, Inc.

Hilliard, OH  
800-821-6710 • Fax: 614-658-0204  
info@ads-pipe.com  
www.ads-pipe.com

### Best Management Products, Inc.

East Haddam, CT  
800-504-8008 • 410-687-6256 • Fax: 877-434-3197  
tjm@bmpinc.com  
www.bmpinc.com

Ad on page 95

### IPEX USA LLC

Oakville, ON  
Canada  
800-463-9572 • 289-881-0120 • Fax: 905-403-1124  
marketing@ipexna.com  
www.ipexna.com

Ad on page 41

### Park Process

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

Ad on page 133



### Vaporooter

Liberty, MO  
800-223-3684  
thor.burmeister@douglasproducts.com  
www.vaporooter.com

Ad on page 77

# NOW THERE'S A BETTER WAY TO COMMUNICATE

If you're shouting to be heard, pushing buttons to talk, or relying on hand-signals to interpret actions— it's time to put on a Sonetics wireless headset and **EXPERIENCE THE BIG DIFFERENCE.**

***Sonetics***®

Hear what's important.

[soneticscorp.com/public-works](http://soneticscorp.com/public-works)  
877.959.9189



## Ground Penetrating Radar

### Subsite Electronics

Perry, OK  
800-846-2713  
sales@subsite.com  
www.subsite.com

### SubSurface Instruments, Inc.

De Pere, WI  
855-422-6346 • 920-347-1788 • Fax: 920-347-1791  
paul.renard@ssilocators.com  
www.ssilocators.com

Ad on page 131

## Grouting

### AP/M Permaform

Johnston, IA  
800-662-6465 • 515-276-9610 • Fax: 515-276-1274  
info@permaform.net  
www.permaform.net

Ad on page 83

### Aries Industries, Inc.

Waukesha, WI  
800-234-7205 • 262-896-7205 • Fax: 262-896-7099  
sales@ariesindustries.com  
www.ariesindustries.com

Ad on page 27



### CUES, Inc.

Orlando, FL  
800-327-7791 • 407-849-0190 • Fax: 407-425-1569  
salesinfo@cuesinc.com  
www.cuesinc.com

Ad on page 61

### Parson Environmental Products, Inc.

Wernersville, PA  
800-356-9023 • 610-582-6060 • Fax: 610-582-6064  
info@parsonenvironmental.com  
www.parsonenvironmental.com

### Sealing Systems, Inc.

Loretto, MN  
800-478-2054 • 763-478-2057 • Fax: 763-478-8868  
pam@ssisealingsystems.com  
www.ssisealingsystems.com

Ad on page 103

### Whirlygig, Inc.

Caldwell, ID  
800-307-4263 • Fax: 208-454-2093  
info@wgig.us  
www.wgig.us

## Hand Tools

### Dallas Specialty & Mfg. Co.

Grand Prairie, TX  
800-222-5644 • 972-641-8444 • Fax: 972-641-8488  
mike@dalspc.com  
www.dallaspecialty.com

### ICS, Blount, Inc.

Portland, OR  
800-321-1240 • Fax: 503-653-4393  
marketing@icsdiamondtools.com  
www.icsdiamondtools.com

### Milwaukee Rubber Products, Inc.

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

Ad on page 131

### Reed Manufacturing

Erie, PA  
800-666-3691 • 814-452-3691 • Fax: 814-455-1697  
reedsales@reedmfgco.com  
www.reedmfgco.com

Ad on page 97



### Rock Creek MFG, LLC

Wister, OK  
918-385-1530 • Fax: 918-647-9240  
obohannon@windstream.net  
www.grabbitomo.com

### Sewer Equipment Co. of Florida

New Smyrna Beach, FL  
800-635-2323 • 386-428-3303 • Fax: 386-427-4552  
csewerequipment@cfl.ir.com  
www.sewerequipmentco.com

Ad on page 130

### Southland Tool Mfg. Inc.

Anaheim, CA  
714-632-8198 • Fax: 714-632-8228  
sales@southlandtool.com  
www.southlandtool.com

Ad on page 129



### T&T Tools Inc.

Holland, MI  
800-521-6893 • Fax: 800-521-3260  
sales@mightyprobe.com  
www.mightyprobe.com

Ad on page 101

## Horizontal Directional Drilling

### IPEX USA LLC

Oakville, ON  
Canada  
800-463-9572 • 289-881-0120 • Fax: 905-403-1124  
marketing@ipexna.com  
www.ipexna.com

Ad on page 41

### LaValley Industries

Bemidji, MN  
218-444-3030 • Fax: 218-444-9900  
infocenter@lavalleyindustries.com  
www.lavalleyindustries.com

### McLaughlin Underground

Greenville, SC  
864-277-5870  
mmole@mighymole.com  
www.mclaughlinunderground.com

### Miller Pipeline

Indianapolis, IN  
800-428-3742 • 317-293-0278 • Fax: 317-653-5200  
info@millerpipeline.com  
www.millerpipeline.com

Ad on page 10

### Pow-R Mole Sales, LLC

Lancaster, NY  
800-344-6653  
www.powrmole.com

### Sonetics

Portland, OR  
800-833-4558 • 503-684-7080 • Fax: 503-620-2943  
sales@soneticscorp.com  
www.soneticscorp.com

Ad on page 75

## Hose - High Pressure

### American Jetter

Knoxville, TN  
866-944-3569 • 865-524-4647 • Fax: 865-247-5105  
andy@americanjetter.com  
www.americanjetter.com

Ad on page 132

### Dultmeier Sales

Omaha, NE  
800-228-9666 • 402-333-1444 • Fax: 402-333-5546  
dultmeier@dultmeier.com  
www.dultmeier.com

### Milwaukee Rubber Products, Inc.

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

Ad on page 131

### MyTana Manufacturing

St. Paul, MN  
800-328-8170 • 651-222-1738 • Fax: 651-222-1739  
mytana@mytana.com  
www.mytana.com

### NLB Corporation

Wixom, MI  
248-624-5555  
nlbmtg@nlbusa.com  
www.nlbcorp.com

### NozzTeq Inc.

Clearwater, FL  
866-620-5915 • 727-223-4979 • Fax: 603-413-6744  
info@nozzteq.com  
www.nozzteq.com

Ad on page 107

### Sewer Equipment Co. of Florida

New Smyrna Beach, FL  
800-635-2323 • 386-428-3303 • Fax: 386-427-4552  
csewerequipment@cfl.ir.com  
www.sewerequipmentco.com

Ad on page 130



### Sewer Pro Shop, LLC

Marietta, GA  
877-864-9394 • 470-592-1715 • Fax: 770-984-2802  
info@sewerproshop.com  
www.sewerproshop.com

### Suttner America Company

Dubuque, IA  
800-831-0660  
sales@suttner.com  
www.suttner.com

### Vector Manufacturing

Streator, IL  
800-627-3171 • 815-672-3171  
sales@vector.com  
www.vector.com

Ad on page 3

### Vacuum Sales, Inc.

Lindenwold, NJ  
800-547-7790 • 856-627-7790 • Fax: 856-627-3044  
sales@vacuumsalesinc.com  
www.vacuumsalesinc.com

### Water Cannon, Inc. - MWBE

Lake Mary, FL  
800-333-9274 • 321-800-5763 • Fax: 888-928-9274  
sales@watercannon.com  
www.watercannon.com/catalogrequest.aspx

Ad on page 133

## Hose - Vacuum

### Milwaukee Rubber Products, Inc.

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

Ad on page 131

## Hose Reels

### Dultmeier Sales

Omaha, NE  
800-228-9666 • 402-333-1444 • Fax: 402-333-5546  
dultmeier@dultmeier.com  
www.dultmeier.com

### General Pump

Mendota Heights, MN  
888-474-5487 • 651-454-6500 • Fax: 651-454-8015  
sales@gpcompanies.com  
www.generalpump.com

### Hannay Reels

Westerlo, NY  
877-467-3357 • 518-797-3791 • Fax: 518-797-3259  
reels@hannay.com  
www.hannay.com

Ad on page 103

### Infrastructure Repair Systems, Inc.

St. Petersburg, FL  
877-327-4216 • Fax: 877-327-4118  
irsi@irsi.net  
www.irsi.net

# SICK OF CUTTING ROOTS OUT OF THE SAME PIPES EVERY. SINGLE. YEAR?



## TAKE A FEW YEARS OFF.

Nothing is as costly (and frustrating) as having to solve the same problem over and over. With Vaporooter, say goodbye to cutting the same roots out of the same pipes, year after year. **Vaporooter's two part formula kills roots and stops them from growing back. Guaranteed.**

weftec | 2018  
Booth 1507



Call Today and Stop Wasting Time!  
**1-800-841-1444**



### K&W Products, Inc.

Elberta, AL  
800-503-0076 • 251-986-7900 • Fax: 251-986-7902  
sales@kwproducts.net  
www.kwmiequipment.com  
**Ad on page 131**

### Milwaukee Rubber Products, Inc.

Menomonee Falls, WI  
800-325-3730 • 262-781-7888 • Fax: 262-781-1742  
sales@milwaukeeerubber.com  
www.milwaukeeerubber.com  
**Ad on page 131**

### MyTana Manufacturing

St. Paul, MN  
800-328-8170 • 651-222-1738 • Fax: 651-222-1739  
mytana@mytana.com  
www.mytana.com

### Root Rat

Bolivar, OH  
800-288-7873 • 330-874-4300 • Fax: 330-874-4448  
chempure@gmail.com  
www.rootrat.net  
**Ad on page 109**

### Schwalm USA

Greenville, SC  
855-949-3441  
ckane@schwalm-usa.com  
www.schwalm-usa.com

### Sewer Equipment Co. of Florida

New Smyrna Beach, FL  
800-635-2323 • 386-428-3303 • Fax: 386-427-4552  
csewerequisite@cfl.rr.com  
www.sewerequisite.com  
**Ad on page 130**

### Water Cannon, Inc. - MWBE

Lake Mary, FL  
800-333-9274 • 321-800-5763 • Fax: 888-928-9274  
sales@watercannon.com  
www.watercannon.com/catalogrequest.aspx  
**Ad on page 133**

## Hydrant Maintenance



### The Plug Hug LLC

Bellville, OH  
719-313-2791 • Fax: 719-213-2000  
douglasmarshall@theplughug.com  
www.theplughug.com  
**Ad on page 91**

## Hydrants

### Mueller Water Products

Atlanta, GA  
800-423-1323 • 770-206-4200  
moreinfo@muellercompany.com  
www.muellerwaterproducts.com

## Hydraulic Parts and Components

### Sewer Equipment Co. of Florida

New Smyrna Beach, FL  
800-635-2323 • 386-428-3303 • Fax: 386-427-4552  
csewerequisite@cfl.rr.com  
www.sewerequisite.com  
**Ad on page 130**

## Hydroexcavation Equipment

### 3T Equipment Co. Inc.

Santa Rosa, CA  
707-543-8555 • Fax: 707-543-8558  
tk3tequip@aol.com  
www.3tequipco.com  
**Ad on page 123**

### Aarcomm Systems Inc.

Coquitlam, BC  
Canada  
800-604-9218  
sales@aarcomm.com  
www.aarcomm.com



### American Sewer Parts & Cleaning

Menomonee Falls, WI  
800-666-0766 • 262-783-6666 • Fax: 262-783-4860  
sales@americansewerparts.com  
www.americansewerparts.com  
**Ad on page 21**



### Cusco

Richmond Hill, ON  
Canada  
800-490-3541 • 905-883-1214 • Fax: 905-883-1778  
sales@wastequip.com  
www.wastequip-cusco.com  
**Ad on page 23**

### Elastec

Carmi, IL  
618-382-2525 • Fax: 618-382-3610  
elastec@elastec.com  
www.elastec.com  
**Ad on page 85**

### Enz USA Inc.

Aurora, IL  
877-362-8721 • 630-692-7880 • Fax: 630-692-7885  
salesusa@enz.com  
www.enzusainc.com  
**Ad on page 83**



### GapVax, Inc.

Johnstown, PA  
888-442-7829 • 814-535-6766 • Fax: 814-539-3617  
inquiry@gapvax.com  
www.gapvax.com  
**Ad on page 135**

### Hurco Technologies, Inc.

Harrisburg, SD  
800-888-1436 • 605-743-2466  
info@hurcotech.com  
www.hurcotech.com  
**Ad on page 24**



### Kaiser Premier LLC

Fort Morgan, CO  
970-542-1975  
sales@kaiserpremier.com  
www.kaiserpremier.com  
**Ad on page 14**

### KEG Technologies, Inc.

Spartanburg, SC  
866-595-0515 • 864-804-6637  
sales@kegtechnologies.net  
www.kegtechnologies.net

### McLaughlin Underground

Greenville, SC  
864-277-5870  
mmole@mighnymole.com  
www.mclaughlinunderground.com

### NLB Corporation

Wixom, MI  
248-624-5555  
nlbmtg@nlbusa.com  
www.nlbcorp.com

### NozzTeq Inc.

Clearwater, FL  
866-620-5915 • 727-223-4979 • Fax: 603-413-6744  
info@nozzteq.com  
www.nozzteq.com  
**Ad on page 107**



### Rival Hydrovac Inc.

Major, SK  
Canada  
403-550-7997  
tdell@rivalhydrovac.com  
www.rivalhydrovac.com

### Sewer Equipment

Dixon, IL  
888-477-7611 • Fax: 815-284-0453  
sales@sewerequisite.com  
www.sewerequisite.com  
**Ad on page 13**

### Soil Surgeon, Inc.

Santa Ana, CA  
949-363-1401 • Fax: 714-434-9998  
info@soilsurgeoninc.com  
www.soilsurgeoninc.com  
**Ad on page 131**

### SubSurface Instruments, Inc.

De Pere, WI  
855-422-6346 • 920-347-1788 • Fax: 920-347-1791  
paul.renard@ssilocators.com  
www.ssilocators.com  
**Ad on page 131**



### Super Products LLC

New Berlin, WI  
800-837-9711 • 262-784-7100  
info@superproductsllc.com  
www.superproductsllc.com  
**Ad on page 73**

### Suttner America Company

Dubuque, IA  
800-831-0660  
sales@suttner.com  
www.suttner.com



### Vac-Con, Inc.

Green Cove Springs, FL  
904-284-4200 • Fax: 904-284-3305  
vns@vac-con.com  
www.vac-con.com  
**Ad on page 136**

### Vac-Tron Equipment

Okahumpka, FL  
352-728-2222  
sales@vactron.com  
www.vactron.com



### Vacall

New Philadelphia, OH  
800-382-8302 • Fax: 330-339-8468  
mtnorman@gradall.com  
www.vacall.com  
**Ad on page 55**

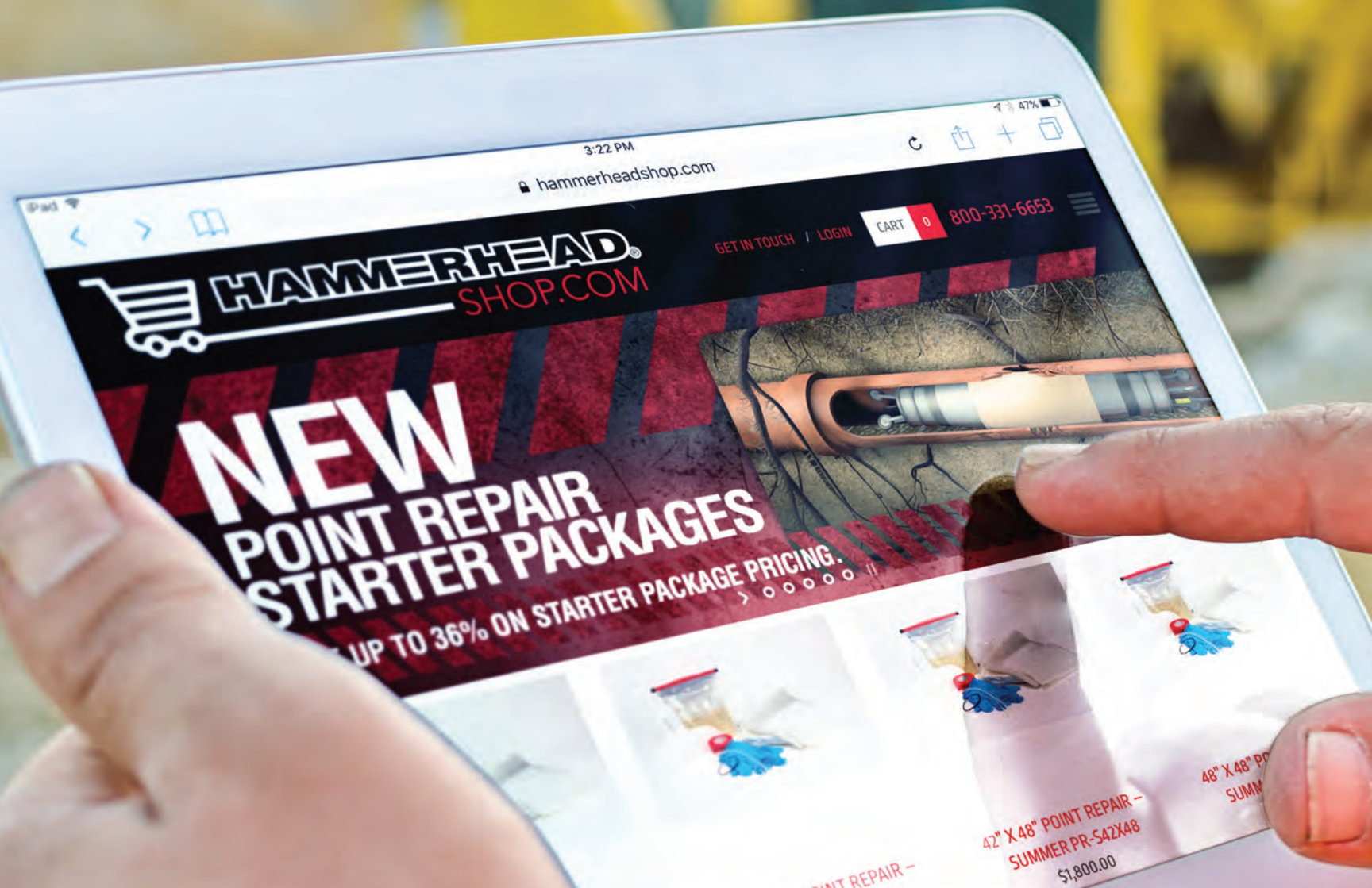
### Vactor Manufacturing

Streator, IL  
800-627-3171 • 815-672-3171  
sales@vactor.com  
www.vactor.com  
**Ad on page 3**

## I & I Prevention

### AP/M Permaform

Johnston, IA  
800-662-6465 • 515-276-9610 • Fax: 515-276-1274  
info@permaform.net  
www.permaform.net  
**Ad on page 83**



# UPFRONT ONLINE PRICING, NO SURPRISES.



To us, 'customer service' means not only providing you with technical support and expertise, but also making sure you have the quality supplies and equipment you need to get the job done. That's why we've made purchasing trenchless solutions easier than ever. Our industry-leading online store offers CIPP lining equipment and supplies, point repair solutions, cleaning and reinstatement tools, and other trenchless solutions, all available at your convenience with honest, upfront pricing. Get what you need, when you need it. [www.hammerheadshop.com](http://www.hammerheadshop.com).

 **YOUR SINGLE SOURCE FOR TRENCHLESS REHABILITATION & REPLACEMENT.**  
visit [hammerheadtrenchless.com](http://hammerheadtrenchless.com) or call 800.331.6653

## Aries Industries, Inc.

Waukesha, WI  
800-234-7205 • 262-896-7205 • Fax: 262-896-7099  
sales@ariesindustries.com  
www.ariesindustries.com

Ad on page 27



## CCI Pipeline Systems

Breaux Bridge, LA  
800-867-2772 • 337-332-5808 • Fax: 337-332-5809  
sales@ccipipe.com  
www.ccipipe.com

Ad on page 99

## Cretex Specialty Products

Waukesha, WI  
800-345-3764 • 262-542-8153 • Fax: 262-542-0301  
info@cretexseals.com  
www.cretexseals.com

Ad on page 40



## CUES, Inc.

Orlando, FL  
800-327-7791 • 407-849-0190 • Fax: 407-425-1569  
salesinfo@cuesinc.com  
www.cuesinc.com

Ad on page 61

## Hurco Technologies, Inc.

Harrisburg, SD  
800-888-1436 • 605-743-2466  
info@hurcotech.com  
www.hurcotech.com

Ad on page 24



## LADTECH, Inc.

Buffalo, MN  
877-235-7464 • Fax: 651-415-1090 • Fax: 651-415-1090  
adjiring@ladtech.com  
www.ladtech.com

Ad on page 91

## Linabond, Inc.

Camarillo, CA  
805-484-7373  
info@linabond.com  
www.linabond.com

## LMK Technologies

Ottawa, IL  
815-640-9302 • Fax: 815-433-0107  
info@lmktechnologies.com  
www.lmktechnologies.com

Ad on page 127

## Mr. Manhole

Delphos, OH  
419-741-9075 • Fax: 419-692-1600  
sales@mrmanhole.com  
www.mrmanhole.com

## Neopoxy International, Inc.

Hayward, CA  
510-782-1290 • Fax: 510-782-1292  
epoxy@neopoxy.us  
www.neopoxy.us

Ad on page 133



## Perma-Liner Industries, LLC

Clearwater, FL  
866-336-2568 • 727-507-9749 • Fax: 727-507-9849  
info@perma-liner.com  
www.perma-liner.com

Ad on page 5

## Pipeline Renewal Technologies

Randolph, NJ  
866-936-8476 • 973-252-6700 • Fax: 973-252-1176  
mail@pipelinert.com  
www.pipelinert.com

Ad on page 33

## RauschUSA

Chambersburg, PA  
877-728-7241 • 717-709-1005 • Fax: 717-709-1009  
sales@rauschusa.com  
www.rauschusa.com

Ad on page 71

## Raven Lining Systems

Broken Arrow, OK  
800-324-2810 • 918-615-0020  
cookr@ravenlining.com  
www.ravenlining.com

Ad on page 89

## Reline America, Inc.

Salville, VA  
866-998-0808 • 276-496-4000  
info@relineamerica.com  
www.relineamerica.com

Ad on page 101

## Sauereisen, Inc.

Pittsburgh, PA  
412-963-0303 • Fax: 412-963-7620  
info@sauereisen.com  
www.sauereisen.com

Ad on page 105

## Sealing Systems, Inc.

Loretto, MN  
800-478-2054 • 763-478-2057 • Fax: 763-478-8868  
pam@ssisealingsystems.com  
www.ssisealingsystems.com

Ad on page 103

## SmartCover Systems

Escondido, CA  
760-291-1980  
sales@smartcoversystems.com  
www.smartcoversystems.com

Ad on page 11

## SpectraShield Liner Systems

Jacksonville, FL  
800-284-2030 • 904-419-4889 • Fax: 904-419-4892  
info@spectrashield.com  
www.spectrashield.com

Ad on page 63

## Subsite Electronics

Perry, OK  
800-846-2713  
sales@subsite.com  
www.subsite.com



## Superior Signal Company LLC

Spotswood, NJ  
800-945-8378 • 732-251-0800 • Fax: 732-251-9442  
info@superiorsignal.com  
www.superiorsignal.com/msw

Ad on page 133

## Telog, A Trimble Company

Victor, NY  
585-742-3000 • Fax: 585-742-3006  
ContactUs@trimble.com  
www.trimblewater.com

## Whirlygig, Inc.

Caldwell, ID  
800-307-4263 • Fax: 208-454-2093  
info@wgig.us  
www.wgig.us

## Inspection - Acoustic

### General Pipe Cleaners/General Wire Spring

McKees Rocks, PA  
800-245-6200 • 412-771-6300  
info@drainbrain.com  
www.drainbrain.com

Ad on page 31



## InfoSense, Inc.

Charlotte, NC  
877-747-3245 • Fax: 704-930-0145  
achurchill@infosense.com  
www.infosense.com

Ad on page 8

## Inspection - CCTV/Video

### Hydra-Stop LLC

Burr Ridge, IL  
800-538-7867 • 708-389-5111 • Fax: 708-389-5125  
hydra-stopsales@hydra-stop.com  
www.hydra-stop.com

## Inspection - Drainline

### Aries Industries, Inc.

Waukesha, WI  
800-234-7205 • 262-896-7205 • Fax: 262-896-7099  
sales@ariesindustries.com  
www.ariesindustries.com

Ad on page 27



### CUES, Inc.

Orlando, FL  
800-327-7791 • 407-849-0190 • Fax: 407-425-1569  
salesinfo@cuesinc.com  
www.cuesinc.com

Ad on page 61

### Dynamic Repairs

Lodi, NJ  
973-478-0893 • Fax: 973-478-0895  
dynamicablerepairs@yahoo.com  
www.dynamicrepairs.biz

Ad on page 131

### Envirosight

Randolph, NJ  
866-936-8476 • 973-252-6700 • Fax: 973-252-1176  
office@envirosight.com  
www.envirosight.com

Ad on page 2



### General Pipe Cleaners/General Wire Spring

McKees Rocks, PA  
800-245-6200 • 412-771-6300  
info@drainbrain.com  
www.drainbrain.com

Ad on page 31

### ITpipes, LLC

Albuquerque, NM  
877-487-4737 • 505-341-0109  
cori@itpipes.com  
www.itpipes.com

### KEG Technologies, Inc.

Spartanburg, SC  
866-595-0515 • 864-804-6637  
sales@kegtechnologies.net  
www.kegtechnologies.net

### Milwaukee Rubber Products, Inc.

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

Ad on page 131

### MTech

Cleveland, OH  
800-362-0240 • 440-646-0996 • Fax: 440-646-9953  
sales@mttechcompany.com  
www.mtechcompany.com

Ad on page 130





**MyTana Manufacturing**

St. Paul, MN  
800-328-8170 • 651-222-1738 • Fax: 651-222-1739  
mytana@mytana.com  
www.mytana.com

**NozzTeq Inc.**

Clearwater, FL  
866-620-5915 • 727-223-4979 • Fax: 603-413-6744  
info@nozzteq.com  
www.nozzteq.com  
**Ad on page 107**

**Perma-Liner Industries, LLC**  
Clearwater, FL  
866-336-2568 • 727-507-9749 • Fax: 727-507-9849  
info@perma-liner.com  
www.perma-liner.com  
**Ad on page 5**

**Pipeline Renewal Technologies**

Randolph, NJ  
866-936-8476 • 973-252-6700 • Fax: 973-252-1176  
mail@pipelinert.com  
www.pipelinert.com  
**Ad on page 33**

**Pow-R Mole Sales, LLC**

Lancaster, NY  
800-344-6653  
www.powrmole.com

**RapidView IBAK North America**

Rochester, IN  
800-656-4225 • 574-224-5426 • Fax: 574-223-7953  
sales@rapidview.com  
www.rapidview.com  
**Ad on page 49**



Video Pipeline Inspection Systems

**Ratech Electronics, Ltd.**

Concord, ON  
Canada  
800-461-9200 • 905-660-7072 • Fax: 905-660-1519  
sales@ratech-electronics.com  
www.ratech-electronics.com

**RauschUSA**

Chambersburg, PA  
877-728-7241 • 717-709-1005 • Fax: 717-709-1009  
sales@rauschusa.com  
www.rauschusa.com  
**Ad on page 71**

**Spartan Tool**  
Mendota, IL  
800-435-3866  
sales@spartantool.com  
www.spartantool.com

**Subsite Electronics**

Perry, OK  
800-846-2713  
sales@subsite.com  
www.subsite.com

**Superior Signal Company LLC**

Spotswood, NJ  
800-945-8378 • 732-251-0800 • Fax: 732-251-9442  
info@superiorsignal.com  
www.superiorsignal.com/msw  
**Ad on page 133**

**TruGrit Traction Inc.**

Winter Park, FL  
407-900-1091  
info@trugrittraction.com  
www.TruGritTraction.com

**Vivax-Metrotech Corp.**

Santa Clara, CA  
800-446-3392 • 408-734-1400  
info@vxmt.com  
www.vivax-metrotech.com  
**Ad on page 20**

**Inspection - Mainline**

**3T Equipment Co. Inc.**

Santa Rosa, CA  
707-543-8555 • Fax: 707-543-8558  
tk3teq@aol.com  
www.3tequipco.com  
**Ad on page 123**

**Aries Industries, Inc.**

Waukesha, WI  
800-234-7205 • 262-896-7205 • Fax: 262-896-7099  
sales@ariesindustries.com  
www.ariesindustries.com  
**Ad on page 27**

# SMP VALVE-OUT TOOL

## FLANGE SPREADING & VALVE/METER REPLACEMENT



Spread outside flanges & remove old valve



Prepare gasket surfaces



Reinstall new valve

VALVE-OUT TOOL WORKS ON FLANGES WITH BOLT HOLES FROM 3/4" TO 1-3/8" (STUD SIZES 5/8" TO 1-1/4")

CAN BE USED ON ANY VALVE WIDTH

REQUIRES NO GAP AND CAN BE USED TO SPREAD FLANGES AND REPLACE GASKETS

SAFER, FASTER, EASIER

**SPECIALTY MAINTENANCE PRODUCTS, INC.**

**5711 CLAREWOOD DRIVE, SUITE B.**

**HOUSTON, TX 77081**

**EMAIL: [SALES@SMPTOOLS.COM](mailto:SALES@SMPTOOLS.COM)**

**PHONE: 713-667-4402**

**WEBSITE: [HTTPS://SMPTOOLS.COM](https://SMPTOOLS.COM)**

**WATCH THE VIDEO HERE**



**CUES, Inc.**  
Orlando, FL  
800-327-7791 • 407-849-0190 • Fax: 407-425-1569  
salesinfo@cuesinc.com  
www.cuesinc.com  
**Ad on page 61**

### Dynamic Repairs

Lodi, NJ  
973-478-0893 • Fax: 973-478-0895  
dynamicablerepairs@yahoo.com  
www.dynamicrepairs.biz  
**Ad on page 131**



**Electric Eel Mfg.**  
Springfield, OH  
800-833-1212 • 937-323-4644 • Fax: 937-323-3767  
info@electriceel.com  
www.electriceel.com  
**Ad on page 133**



**Envirosight**  
Randolph, NJ  
866-936-8476 • 973-252-6700 • Fax: 973-252-1176  
office@envirosight.com  
www.envirosight.com  
**Ad on page 2**

**ITpipes, LLC**  
Albuquerque, NM  
877-487-4737 • 505-341-0109  
cori@itpipes.com  
www.itpipes.com

**Jack Doheny Companies**  
Northville, MI  
800-336-4369  
info@dohenycompanies.com  
www.dohenycompanies.com

**KEG Technologies, Inc.**  
Spartanburg, SC  
866-595-0515 • 864-804-6637  
sales@kegtechnologies.net  
www.kegtechnologies.net

**MTech**  
Cleveland, OH  
800-362-0240 • 440-646-0996 • Fax: 440-646-9953  
sales@mtechcompany.com  
www.mtechcompany.com  
**Ad on page 130**

**MyTana Manufacturing**  
St. Paul, MN  
800-328-8170 • 651-222-1738 • Fax: 651-222-1739  
mytana@mytana.com  
www.mytana.com



**Perma-Liner Industries, LLC**  
Clearwater, FL  
866-336-2568 • 727-507-9749 • Fax: 727-507-9849  
info@perma-liner.com  
www.perma-liner.com  
**Ad on page 5**

**Pow-R Mole Sales, LLC**  
Lancaster, NY  
800-344-6653  
www.powrmole.com



**RapidView IBAK North America**  
Rochester, IN  
800-656-4225 • 574-224-5426 • Fax: 574-223-7953  
sales@rapidview.com  
www.rapidview.com  
**Ad on page 49**



**Ratech Electronics, Ltd.**  
Concord, ON  
Canada  
800-461-9200 • 905-660-7072 • Fax: 905-660-1519  
sales@ratech-electronics.com  
www.ratech-electronics.com

**RauschUSA**  
Chambersburg, PA  
877-728-7241 • 717-709-1005 • Fax: 717-709-1009  
sales@rauschusa.com  
www.rauschusa.com  
**Ad on page 71**

**Subsite Electronics**  
Perry, OK  
800-846-2713  
sales@subsite.com  
www.subsite.com

**Superior Signal Company LLC**  
Spotswood, NJ  
800-945-8378 • 732-251-0800 • Fax: 732-251-9442  
info@superiorsignal.com  
www.superiorsignal.com/msw  
**Ad on page 133**

**Trio-Vision, LLC**  
Smyrna, GA  
800-443-3761 • 770-435-8991 • Fax: 770-435-0402  
www.trio-vision.com

**TruGrit Traction Inc.**  
Winter Park, FL  
407-900-1091  
info@trugrittraction.com  
www.TruGritTraction.com



**Vivax-Metrotech Corp.**  
Santa Clara, CA  
800-446-3392 • 408-734-1400  
info@vxmt.com  
www.vivax-metrotech.com  
**Ad on page 20**

**Vortex Companies**  
Houston, TX  
855-949-3441  
sales@vortexcompanies.com  
www.vortexcompanies.com

## Inspection - Manhole/ Confined Space



**CUES, Inc.**  
Orlando, FL  
800-327-7791 • 407-849-0190 • Fax: 407-425-1569  
salesinfo@cuesinc.com  
www.cuesinc.com  
**Ad on page 61**

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



**Envirosight**  
Randolph, NJ  
866-936-8476 • 973-252-6700 • Fax: 973-252-1176  
office@envirosight.com  
www.envirosight.com  
**Ad on page 2**

**Hurco Technologies, Inc.**  
Harrisburg, SD  
800-888-1436 • 605-743-2466  
info@hurcotech.com  
www.hurcotech.com  
**Ad on page 24**

**ITpipes, LLC**  
Albuquerque, NM  
877-487-4737 • 505-341-0109  
cori@itpipes.com  
www.itpipes.com

**Jack Doheny Companies**  
Northville, MI  
800-336-4369  
info@dohenycompanies.com  
www.dohenycompanies.com

**MTech**  
Cleveland, OH  
800-362-0240 • 440-646-0996 • Fax: 440-646-9953  
sales@mtechcompany.com  
www.mtechcompany.com  
**Ad on page 130**



**RapidView IBAK North America**  
Rochester, IN  
800-656-4225 • 574-224-5426 • Fax: 574-223-7953  
sales@rapidview.com  
www.rapidview.com  
**Ad on page 49**

**Ratech Electronics, Ltd.**  
Concord, ON  
Canada  
800-461-9200 • 905-660-7072 • Fax: 905-660-1519  
sales@ratech-electronics.com  
www.ratech-electronics.com

**Sewer Equipment Co. of Florida**  
New Smyrna Beach, FL  
800-635-2323 • 386-428-3303 • Fax: 386-427-4552  
csewerekipment@cfi.fl.com  
www.sewerekipmentco.com  
**Ad on page 130**

**Southland Tool Mfg. Inc.**  
Anaheim, CA  
714-632-8198 • Fax: 714-632-8228  
sales@southlandtool.com  
www.southlandtool.com  
**Ad on page 129**

**Subsite Electronics**  
Perry, OK  
800-846-2713  
sales@subsite.com  
www.subsite.com

**Trio-Vision, LLC**  
Smyrna, GA  
800-443-3761 • 770-435-8991 • Fax: 770-435-0402  
www.trio-vision.com

**Whirlygig, Inc.**  
Caldwell, ID  
800-307-4263 • Fax: 208-454-2093  
info@wgig.us  
www.wgig.us

## Inspection - Water Lines



**CUES, Inc.**  
Orlando, FL  
800-327-7791 • 407-849-0190 • Fax: 407-425-1569  
salesinfo@cuesinc.com  
www.cuesinc.com  
**Ad on page 61**

**ITpipes, LLC**  
Albuquerque, NM  
877-487-4737 • 505-341-0109  
cori@itpipes.com  
www.itpipes.com

# the enz<sup>®</sup> BULLDOG<sup>®</sup> Your Best Friend!



Application range:  
2.5" - 24"

This all-purpose nozzle is the most efficient and economical way to clear roots, debris and blockages from your pipes.

- Utilizes both fresh and recycled water
- Easy to handle and low maintenance
- Reduces transportation and water costs
- Oil-free braking system provides low wear and tear operation



CALL 1 877 ENZUSA1 For a dealer near you  
[www.enzusainc.com](http://www.enzusainc.com)

**enz<sup>®</sup>**  **usa inc.**

1585 Beverly Ct., Unit 115 | Aurora, IL 60502



**AP/M PERMAFORM**  
The trenchless solutions company

COUNTY AND MUNICIPAL  
**SELF-INSTALL  
REHABILITATION SYSTEM**

for  
MANHOLES, CATCH BASINS,  
AND DRAINAGE STRUCTURES

***"With the AP/M Permaform trailer and spincaster, our own two-man crew is able to complete a basin rehabilitation in just two or three hours, and if conditions are right they can do as many as eight in one day."***

Randall Dellaposta, Director of Equipment and Facilities at the Genesee County Road Commission (GCRC)



weftec | 2018  
Booth 6539

AP/M Permaform • 800-662-6465 • [www.permaform.net](http://www.permaform.net)

## RapidView IBAK North America

Rochester, IN  
800-656-4225 • 574-224-5426 • Fax: 574-223-7953  
sales@rapidview.com  
www.rapidview.com

Ad on page 49

## Ratech Electronics, Ltd.

Concord, ON  
Canada  
800-461-9200 • 905-660-7072 • Fax: 905-660-1519  
sales@ratech-electronics.com  
www.ratech-electronics.com

## SubSurface Instruments, Inc.

De Pere, WI  
855-422-6346 • 920-347-1788 • Fax: 920-347-1791  
paul.renard@ssilocators.com  
www.ssilocators.com

Ad on page 131

## Instrumentation - Process Control

### Blue-White Industries, Ltd.

**Blue-White Industries**  
Huntington Beach, CA  
714-893-8529 • Fax: 714-894-9492  
sales@blue-white.com  
www.blue-white.com

Ad on page 43

## CHEMetrics, Inc.

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

## Endress+Hauser

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

## PRIMEX

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

### PROCOMSOL

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

## Sierra Instruments, Inc.

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

### TESCO CONTROLS, INC.

**Tesco Controls, Inc.**  
Sacramento, CA  
800-948-3726 • 916-395-8800  
sales@tescocontrols.com  
tescocontrols.com

## Universal Flow Monitors, Inc.

Hazel Park, MI  
888-569-3090 • 248-542-9635 • Fax: 248-398-4274  
sales@flowmeters.com  
www.flowmeters.com

## VEGA Americas, Inc.

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

Ad on page 67

## Jet/Vac Combination Machines

### 3T Equipment Co. Inc.

Santa Rosa, CA  
707-543-8555 • Fax: 707-543-8558  
tk3tequip@aol.com  
www.3tequipco.com

Ad on page 123

### Aarcomm Systems Inc.

Coquitlam, BC  
Canada  
800-604-9218  
sales@aarcomm.com  
www.aarcomm.com

### CUSCO

**Cusco**  
Richmond Hill, ON  
Canada  
800-490-3541 • 905-883-1214 • Fax: 905-883-1778  
sales@wastequip-cusco.com  
www.wastequip-cusco.com

Ad on page 23

### Enz USA Inc.

Aurora, IL  
877-362-8721 • 630-692-7880 • Fax: 630-692-7885  
salesusa@enz.com  
www.enzusa.com

Ad on page 83

### GapVax

**GapVax, Inc.**  
Johnstown, PA  
888-442-7829 • 814-535-6766 • Fax: 814-539-3617  
inquiry@gapvax.com  
www.gapvax.com

Ad on page 135

### Hot Jet USA

Riverton, UT  
800-624-8186 • 801-545-0777  
sales@hotjetusa.com  
www.hotjetusa.com

Ad on page 131

### Jack Doheny Companies

Northville, MI  
800-336-4369  
info@dohenycompanies.com  
www.dohenycompanies.com

## McLaughlin Underground

Greenville, SC  
864-277-5870  
mmole@mighymole.com  
www.mclaughlinunderground.com

## MTech

Cleveland, OH  
800-362-0240 • 440-646-0996 • Fax: 440-646-9953  
sales@mtechcompany.com  
www.mtechcompany.com

Ad on page 130

## Sewer Equipment

Dixon, IL  
888-477-7611 • Fax: 815-284-0453  
sales@sewerequipment.com  
www.sewerequipment.com

Ad on page 13

## Sonetics

Portland, OR  
800-833-4558 • 503-684-7080 • Fax: 503-620-2943  
sales@soneticscorp.com  
www.soneticscorp.com

Ad on page 75

### Super Products TRUCK MOUNTED VACUUM EQUIPMENT

**Super Products LLC**  
New Berlin, WI  
800-837-9711 • 262-784-7100  
info@superproductsllc.com  
www.superproductsllc.com

Ad on page 73

## USB-USA LLC

Douglasville, GA  
844-285-5770 • 678-214-7965 • Fax: 678-649-1766  
info@usb-usa.com  
www.usb-usa.com

Ad on page 34

### VAC-CON

**Vac-Con, Inc.**  
Green Cove Springs, FL  
904-284-4200 • Fax: 904-284-3305  
vns@vac-con.com  
www.vac-con.com

Ad on page 136

## Vac-Tron Equipment

Okahumpka, FL  
352-728-2222  
sales@vactron.com  
www.vactron.com

### VACALL™

**Vacall**  
New Philadelphia, OH  
800-382-8302 • Fax: 330-339-8468  
mnorman@gradall.com  
www.vacall.com

Ad on page 55

## Vector Manufacturing

Streator, IL  
800-627-3171 • 815-672-3171  
sales@vector.com  
www.vector.com

Ad on page 3

## Vacuum Sales, Inc.

Lindenwold, NJ  
800-547-7790 • 856-627-7790 • Fax: 856-627-3044  
sales@vacuumsalesinc.com  
www.vacuumsalesinc.com

## Jetters - Portable

### American Jetter

Knoxville, TN  
866-944-3569 • 865-524-4647 • Fax: 865-247-5105  
andy@americanjetter.com  
www.americanjetter.com

Ad on page 132



**Cam Spray**  
Iowa Falls, IA  
800-648-5011 • 641-648-5011 • Fax: 641-648-5013  
sales@camspray.com  
www.camspray.com

Ad on page 38

### Enz USA Inc.

Aurora, IL  
877-362-8721 • 630-692-7880 • Fax: 630-692-7885  
salesusa@enz.com  
www.enzusa.com

Ad on page 83

### General PIPE CLEANERS

#### General Pipe Cleaners/General Wire Spring

McKees Rocks, PA  
800-245-6200 • 412-771-6300  
info@drainbrain.com  
www.drainbrain.com

Ad on page 31

### Hot Jet USA

Riverton, UT  
800-624-8186 • 801-545-0777  
sales@hotjetusa.com  
www.hotjetusa.com

Ad on page 131



### K&W Products, Inc.

Elberta, AL  
800-503-0076 • 251-986-7900 • Fax: 251-986-7902  
sales@kwproducts.net  
www.kwmiequipment.com

Ad on page 131

### McLaughlin Underground

Greenville, SC  
864-277-5870  
mmole@mighymole.com  
www.mclaughlinunderground.com

**MyTana Manufacturing**  
 St. Paul, MN  
 800-328-8170 • 651-222-1738 • Fax: 651-222-1739  
[mytana@mytana.com](mailto:mytana@mytana.com)  
[www.mytana.com](http://www.mytana.com)

**Root Rat**  
 Bolivar, OH  
 800-288-7873 • 330-874-4300 • Fax: 330-874-4448  
[chempure@gmail.com](mailto:chempure@gmail.com)  
[www.rootrat.net](http://www.rootrat.net)  
**Ad on page 109**

**Schwalm USA**  
 Greenville, SC  
 855-949-3441  
[ckane@schwalm-usa.com](mailto:ckane@schwalm-usa.com)  
[www.schwalm-usa.com](http://www.schwalm-usa.com)

**Sewer Equipment Co. of Florida**  
 New Smyrna Beach, FL  
 800-635-2323 • 386-428-3303 • Fax: 386-427-4552  
[csewerequipment@cfl.rr.com](mailto:csewerequipment@cfl.rr.com)  
[www.sewerequipmentco.com](http://www.sewerequipmentco.com)  
**Ad on page 130**



**Spartan Tool**  
 Mendota, IL  
 800-435-3866  
[sales@spartantool.com](mailto:sales@spartantool.com)  
[www.spartantool.com](http://www.spartantool.com)

**Water Cannon, Inc. - MWBE**  
 Lake Mary, FL  
 800-333-9274 • 321-800-5763 • Fax: 888-928-9274  
[sales@watercannon.com](mailto:sales@watercannon.com)  
[www.watercannon.com/catalogrequest.aspx](http://www.watercannon.com/catalogrequest.aspx)  
**Ad on page 133**

## Jetters - Truck & Trailer

**3T Equipment Co. Inc.**  
 Santa Rosa, CA  
 707-543-8555 • Fax: 707-543-8558  
[tk3tequip@aol.com](mailto:tk3tequip@aol.com)  
[www.3tequipco.com](http://www.3tequipco.com)  
**Ad on page 123**

**Aarcomm Systems Inc.**  
 Coquitlam, BC  
 Canada  
 800-604-9218  
[sales@aarcomm.com](mailto:sales@aarcomm.com)  
[www.aarcomm.com](http://www.aarcomm.com)

**American Jetter**  
 Knoxville, TN  
 866-944-3569 • 865-524-4647 • Fax: 865-247-5105  
[andy@americanjetter.com](mailto:andy@americanjetter.com)  
[www.americanjetter.com](http://www.americanjetter.com)  
**Ad on page 132**



**Cam Spray**  
 Iowa Falls, IA  
 800-648-5011 • 641-648-5011 • Fax: 641-648-5013  
[sales@camspray.com](mailto:sales@camspray.com)  
[www.camspray.com](http://www.camspray.com)  
**Ad on page 38**

**Elastec**  
 Carmi, IL  
 618-382-2525 • Fax: 618-382-3610  
[elastec@elastec.com](mailto:elastec@elastec.com)  
[www.elastec.com](http://www.elastec.com)  
**Ad on page 85**

**Enz USA Inc.**  
 Aurora, IL  
 877-362-8721 • 630-692-7880 • Fax: 630-692-7885  
[salesusa@enz.com](mailto:salesusa@enz.com)  
[www.enzusainc.com](http://www.enzusainc.com)  
**Ad on page 83**



**GapVax, Inc.**  
 Johnstown, PA  
 888-442-7829 • 814-535-6766 • Fax: 814-539-3617  
[inquiry@gapvax.com](mailto:inquiry@gapvax.com)  
[www.gapvax.com](http://www.gapvax.com)  
**Ad on page 135**

**General Pipe Cleaners/General Wire Spring**  
 McKees Rocks, PA  
 800-245-6200 • 412-771-6300  
[info@drainbrain.com](mailto:info@drainbrain.com)  
[www.drainbrain.com](http://www.drainbrain.com)  
**Ad on page 31**

**Hot Jet USA**  
 Riverton, UT  
 800-624-8186 • 801-545-0777  
[sales@hojjetusa.com](mailto:sales@hojjetusa.com)  
[www.hojjetusa.com](http://www.hojjetusa.com)  
**Ad on page 131**



**PACS 2000**  
**MUNICIPAL VACUUM SYSTEM**

2,000 CFM  
 1,000 gallon storage  
 99 hp diesel engine  
 3,000 psi water system

 **ELASTEC**

[www.elastec.com/pacs2000](http://www.elastec.com/pacs2000)  
 +1 (618) 382-2525

**Jack Doheny Companies**  
Northville, MI  
800-336-4369  
info@dohenycompanies.com  
www.dohenycompanies.com

**MTech**  
Cleveland, OH  
800-362-0240 • 440-646-0996 • Fax: 440-646-9953  
sales@mttechcompany.com  
www.mtechcompany.com  
**Ad on page 130**

**Sewer Equipment**  
Dixon, IL  
888-477-7611 • Fax: 815-284-0453  
sales@sewerequipment.com  
www.sewerequipment.com  
**Ad on page 13**



**Spartan Tool**  
Mendota, IL  
800-435-3866  
sales@spartantool.com  
www.spartantool.com

## **Super Products** TRUCK MOUNTED VACUUM EQUIPMENT

**Super Products LLC**  
New Berlin, WI  
800-837-9711 • 262-784-7100  
info@superproductsllc.com  
www.superproductsllc.com  
**Ad on page 73**

**USB-USA LLC**  
Douglasville, GA  
844-285-5770 • 678-214-7965 • Fax: 678-649-1766  
info@usb-usa.com  
www.usb-usa.com  
**Ad on page 34**

**Vac-Tron Equipment**  
Okahumpka, FL  
352-728-2222  
sales@vacatron.com  
www.vacatron.com

**Vacall**  
New Philadelphia, OH  
800-382-8302 • Fax: 330-339-8468  
mtnorman@gradall.com  
www.vacall.com  
**Ad on page 55**

**Vector Manufacturing**  
Sreator, IL  
800-627-3171 • 815-672-3171  
sales@vector.com  
www.vector.com  
**Ad on page 3**

**Water Cannon, Inc. - MWBE**  
Lake Mary, FL  
800-333-9274 • 321-800-5763 • Fax: 888-928-9274  
sales@watercannon.com  
www.watercannon.com/catalogrequest.aspx  
**Ad on page 133**

## Lagoon Products

**American Pleasure Products, Inc.**  
Rose City, MI  
989-685-2697 • Fax: 989-685-8484  
info@aquacycleusa.com  
www.aquacycleusa.com  
**Ad on page 109**

## Laser Profiling



**CUES, Inc.**  
Orlando, FL  
800-327-7791 • 407-849-0190 • Fax: 407-425-1569  
salesinfo@cuesinc.com  
www.cuesinc.com  
**Ad on page 61**

**Envirosight**  
Randolph, NJ  
866-936-8476 • 973-252-6700 • Fax: 973-252-1176  
office@envirosight.com  
www.envirosight.com  
**Ad on page 2**

**RapidView IBAK North America**  
Rochester, IN  
800-656-4225 • 574-224-5426 • Fax: 574-223-7953  
sales@rapidview.com  
www.rapidview.com  
**Ad on page 49**

**RauschUSA**  
Chambersburg, PA  
877-728-7241 • 717-709-1005 • Fax: 717-709-1009  
sales@rauschusa.com  
www.rauschusa.com  
**Ad on page 71**

**Trio-Vision, LLC**  
Smyrna, GA  
800-443-3761 • 770-435-8991 • Fax: 770-435-0402  
www.trio-vision.com

## Lift Stations/Wet Wells

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

**Gorman-Rupp Company**  
Mansfield, OH  
419-755-1011  
grsales@gormanrupp.com  
www.GRpumps.com  
**Ad on page 113**



**Liberty Pumps**  
Bergen, NY  
800-543-2550 • 585-494-1817 • Fax: 585-494-1839  
liberty@libertypumps.com  
www.libertypumps.com

**Linabond, Inc.**  
Camarillo, CA  
805-484-7373  
info@linabond.com  
www.linabond.com

**Neopoxy International, Inc.**  
Hayward, CA  
510-782-1290 • Fax: 510-782-1292  
epoxy@neopoxy.us  
www.neopoxy.us  
**Ad on page 133**

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

**Raven Lining Systems**  
Broken Arrow, OK  
800-324-2810 • 918-615-0020  
cookr@ravenlining.com  
www.ravenlining.com  
**Ad on page 89**



**GRABBIT O.M.O.**  
ROCK CREEK MANUFACTURING, LLC  
2700 Highway 400, Rock Creek, OK 73087  
724 348 25 22  
www.grabbitomo.com

**Rock Creek MFG, LLC**  
Wister, OK  
918-385-1530 • Fax: 918-647-9240  
obohannon@windstream.net  
www.grabbitomo.com

**Sauereisen, Inc.**  
Pittsburgh, PA  
412-963-0303 • Fax: 412-963-7620  
info@sauereisen.com  
www.sauereisen.com  
**Ad on page 105**

**Sewer Shield Composite LLC**  
Mesa, AZ  
480-830-9537  
info@sewershieldcomposites.com  
www.sewershieldcomposites.com



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

**VEGA Americas, Inc.**  
Cincinnati, OH  
800-367-5383 • 513-272-0131 • Fax: 513-272-0133  
americas@vega.com  
www.vega.com  
**Ad on page 67**

**Wilo USA**  
Rosemont, IL  
888-945-6872 • Fax: 888-945-6873  
info@wilo-usa.com  
www.wilo-usa.com  
**Ad on page 117**

## Liquid Level Indicator

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

**Hach - Flow Products & Services**  
Loveland, CO  
800-368-2723  
www.hachflow.com  
**Ad on page 53**

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

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

## **TESCO** CONTROLS, INC.

**Tesco Controls, Inc.**  
Sacramento, CA  
800-948-3726 • 916-395-8800  
sales@tescocontrols.com  
tescocontrols.com

**VEGA Americas, Inc.**  
Cincinnati, OH  
800-367-5383 • 513-272-0131 • Fax: 513-272-0133  
americas@vega.com  
www.vega.com  
**Ad on page 67**

## Locators - Electronic

**Dynamic Repairs**  
Lodi, NJ  
973-478-0893 • Fax: 973-478-0895  
dynamicablerepairs@yahoo.com  
www.dynamicrepairs.biz  
**Ad on page 131**

**General Pipe Cleaners/General Wire Spring**  
McKees Rocks, PA  
800-245-6200 • 412-771-6300  
info@drainbrain.com  
www.drainbrain.com  
**Ad on page 31**



**Hermann Sewerin GmbH**  
33334 Gutersloh  
Germany  
888-592-9916 • Fax: 49524193444  
sewerin-usa@sewerin.net  
www.sewerin.com  
**Ad on page 26**

# Wastewater Treatment and Sludge Management Solutions from Komline-Sanderson



## Pump. Thicken. Dewater. Dry.

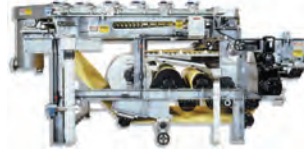
### Paddle Dryer

- indirectly heated
- produce Class A product
- high efficiency



### Belt Filter Press

- sludge dewatering
- high cake solids
- low polymer cost



### Gravity Belt Thickener

- sludge thickening
- high rates
- low polymer cost



### Dissolved Air Flotation

- sludge thickening
- wastewater clarification
- high float solids



### Rotary Vacuum Filter

- sludge dewatering
- wastewater clarification
- continuous operation



### Plunger Pump

- sludge transfer
- positive displacement
- high suction lift



weftec | 2018  
Booth 2429

Komline-Sanderson

**ARTHUR PRODUCTS CO.**  
**Nozzles, that's US!**

www.arthurproducts.com

1.800.322.0510 apc@apcisq.com

*ultra* *ultra* *ultra*  
**LIGHT – VERSATILE – SAFE**

**ultraSHORE**  
P R O D U C T S



Quick to Install.  
As light as 130lbs.



Roll Your Own.  
Optional wheel kit.



Stacks easily with  
2' & 4' high panels.

**This is What Aluminum Shoring Was Meant to be!**



1-800-683-8837

**1-800-SH-ORING**

CALL TOLL-FREE NATIONWIDE • 1-800-746-7464

**www.shoring.com**

**McLaughlin Underground**  
Greenville, SC  
864-277-5870  
mmole@mightymole.com  
www.mclaughlinunderground.com

**Pow-R Mole Sales, LLC**  
Lancaster, NY  
800-344-6653  
www.powrmole.com

**RapidView IBAK North America**  
Rochester, IN  
800-656-4225 • 574-224-5426 • Fax: 574-223-7953  
sales@rapidview.com  
www.rapidview.com  
**Ad on page 49**

**Ratech Electronics, Ltd.**  
Concord, ON  
Canada  
800-461-9200 • 905-660-7072 • Fax: 905-660-1519  
sales@ratech-electronics.com  
www.ratech-electronics.com

**Schonstedt Instrument Company**  
Kearneysville, WV  
800-999-8280 • 304-725-1050  
info@schonstedt.com  
www.schonstedt.com

**Subsite Electronics**  
Perry, OK  
800-846-2713  
sales@subsite.com  
www.subsite.com



**SubSurface Instruments, Inc.**  
De Pere, WI  
855-422-6346 • 920-347-1788 • Fax: 920-347-1791  
paul.renard@ssilocators.com  
www.ssilocators.com  
**Ad on page 131**

**SubSurface Locators, Inc.**  
Incline Village, NV  
775-298-2701 • Fax: 775-298-2703  
sldi@mindspring.com  
www.subsurfaceleak.com  
**Ad on page 99**

**Vivax-Metrotech Corp.**  
Santa Clara, CA  
800-446-3392 • 408-734-1400  
info@vxmt.com  
www.vivax-metrotech.com  
**Ad on page 20**

## Locators - Pipe/Leak/ Valve/Sewer

**Dynamic Repairs**  
Lodi, NJ  
973-478-0893 • Fax: 973-478-0895  
dynamicablerepairs@yahoo.com  
www.dynamicrepairs.biz  
**Ad on page 131**

**General Pipe Cleaners/General Wire Spring**  
McKees Rocks, PA  
800-245-6200 • 412-771-6300  
info@drainbrain.com  
www.drainbrain.com  
**Ad on page 31**



**Hermann Sewerin GmbH**  
33334 Gutersloh  
Germany  
888-592-9916 • Fax: 495241934444  
sewerin-usa@sewerin.net  
www.sewerin.com  
**Ad on page 26**

**Lansas Mfg. by Vanderlans & Sons Inc.**  
Lodi, CA  
800-452-4902 • 209-334-4115 • Fax: 209-339-8260  
info@lansas.com  
www.lansas.com

**MTech**  
Cleveland, OH  
800-362-0240 • 440-646-0996 • Fax: 440-646-9953  
sales@mttechcompany.com  
www.mtechcompany.com  
**Ad on page 130**

**Mueller Water Products**  
Atlanta, GA  
800-423-1323 • 770-206-4200  
moreinfo@muellercompany.com  
www.muellerwaterproducts.com



**MyTana Manufacturing**  
St. Paul, MN  
800-328-8170 • 651-222-1738 • Fax: 651-222-1739  
mytana@mytana.com  
www.mytana.com

**Ratech Electronics, Ltd.**  
Concord, ON  
Canada  
800-461-9200 • 905-660-7072 • Fax: 905-660-1519  
sales@ratech-electronics.com  
www.ratech-electronics.com

**Schonstedt Instrument Company**  
Kearneysville, WV  
800-999-8280 • 304-725-1050  
info@schonstedt.com  
www.schonstedt.com

**Schwalm USA**  
Greenville, SC  
855-949-3441  
ckane@schwalm-usa.com  
www.schwalm-usa.com

**Sewer Equipment Co. of Florida**  
New Smyrna Beach, FL  
800-635-2323 • 386-428-3303 • Fax: 386-427-4552  
csewerequisite@cfi.fl.com  
www.sewerequisite.com  
**Ad on page 130**

**Subsite Electronics**  
Perry, OK  
800-846-2713  
sales@subsite.com  
www.subsite.com



**SubSurface Instruments, Inc.**  
De Pere, WI  
855-422-6346 • 920-347-1788 • Fax: 920-347-1791  
paul.renard@ssilocators.com  
www.ssilocators.com  
**Ad on page 131**

**SubSurface Locators, Inc.**  
Incline Village, NV  
775-298-2701 • Fax: 775-298-2703  
sldi@mindspring.com  
www.subsurfaceleak.com  
**Ad on page 99**

**Superior Signal Company LLC**  
Spotswood, NJ  
800-945-8378 • 732-251-0800 • Fax: 732-251-9442  
info@superiorsignal.com  
www.superiorsignal.com/msw  
**Ad on page 133**

**Trio-Vision, LLC**  
Smyrna, GA  
800-443-3761 • 770-435-8991 • Fax: 770-435-0402  
www.trio-vision.com

**Vactor Manufacturing**  
Streator, IL  
800-627-3171 • 815-672-3171  
sales@vactor.com  
www.vactor.com  
**Ad on page 3**



**Vivax-Metrotech Corp.**  
Santa Clara, CA  
800-446-3392 • 408-734-1400  
info@vxmt.com  
www.vivax-metrotech.com  
**Ad on page 20**

## Locators - Smoke/Dye



**BRIGHT DYES -**  
Division of Kingscote Chemicals  
Miamisburg, OH  
800-394-0678 • 937-886-9100 • Fax: 937-886-9300  
sales@kingscotechemicals.com  
www.brightdyes.com  
**Ad on page 131**



**Hurco Technologies, Inc.**  
Harrisburg, SD  
800-888-1436 • 605-743-2466  
info@hurcotech.com  
www.hurcotech.com  
**Ad on page 24**

**MyTana Manufacturing**  
St. Paul, MN  
800-328-8170 • 651-222-1738 • Fax: 651-222-1739  
mytana@mytana.com  
www.mytana.com

**Sewer Equipment Co. of Florida**  
New Smyrna Beach, FL  
800-635-2323 • 386-428-3303 • Fax: 386-427-4552  
csewerequisite@cfi.fl.com  
www.sewerequisite.com  
**Ad on page 130**



**Superior Signal Company LLC**  
Spotswood, NJ  
800-945-8378 • 732-251-0800 • Fax: 732-251-9442  
info@superiorsignal.com  
www.superiorsignal.com/msw  
**Ad on page 133**



**TURBO FOG**  
Division of Kingscote Chemicals  
Miamisburg, OH  
800-394-0678 • 937-886-9100 • Fax: 937-886-9300  
sales@kingscotechemicals.com  
www.turbo-fog.com  
**Ad on page 130**

## Manhole Debris Remover



**Rock Creek MFG, LLC**  
Wister, OK  
918-385-1530 • Fax: 918-647-9240  
obohannon@windstream.net  
www.grabbitomo.com

## Manhole Filters

**Simple Solutions Distributing**  
West Milford, NJ  
800-667-8465 • 973-846-7817 • Fax: 973-858-0219  
sales@industrialodorcontrol.com  
www.industrialodorcontrol.com  
**Ad on page 132**

## Manhole Grade Rings

**CreteX Specialty Products**  
Waukesha, WI  
800-345-3764 • 262-542-8153 • Fax: 262-542-0301  
info@cretexseals.com  
www.cretexseals.com  
**Ad on page 40**



## Manhole Inserts

### Cretex Specialty Products

Waukesha, WI  
800-345-3764 • 262-542-8153 • Fax: 262-542-0301  
info@cretexseals.com  
www.cretexseals.com  
**Ad on page 40**

### Dallas Specialty & Mfg. Co.

Grand Prairie, TX  
800-222-5644 • 972-641-8444 • Fax: 972-641-8488  
mike@dalspc.com  
www.dallasspecialty.com



### LADTECH, Inc.

Buffalo, MN  
877-235-7464 • Fax: 651-415-1090 • Fax: 651-415-1090  
adjring@ladtech.com  
www.ladtech.com  
**Ad on page 91**

### Mr. Manhole

Delphos, OH  
419-741-9075 • Fax: 419-692-1600  
sales@mrmanhole.com  
www.mrmanhole.com

### Parson Environmental Products, Inc.

Wernersville, PA  
800-356-9023 • 610-582-6060 • Fax: 610-582-6064  
info@parsonenvironmental.com  
www.parsonenvironmental.com

### Sealing Systems, Inc.

Loretto, MN  
800-478-2054 • 763-478-2057 • Fax: 763-478-8868  
pam@ssisealingsystems.com  
www.ssisealingsystems.com

**Ad on page 103**

### Sewer Equipment Co. of Florida

New Smyrna Beach, FL  
800-635-2323 • 386-428-3303 • Fax: 386-427-4552  
csewerequipment@cfl.rr.com  
www.sewerequipmentco.com

**Ad on page 130**

### Sewer Shield Composite LLC

Mesa, AZ  
480-830-9537  
info@sewershieldcomposites.com  
www.sewershieldcomposites.com

### Simple Solutions Distributing

West Milford, NJ  
800-667-8465 • 973-846-7817 • Fax: 973-858-0219  
sales@industrialodorcontrol.com  
www.industrialodorcontrol.com

**Ad on page 132**

### Uticom Systems, Inc.

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

### Whirlygig, Inc.

Caldwell, ID  
800-307-4263 • Fax: 208-454-2093  
info@wgig.us  
www.wgig.us

## Manhole Parts/ Components

### American Highway Products Ltd.

Bolivar, OH  
888-272-2397 • 330-874-3270 • Fax: 330-874-3800  
sales@ahp1.com  
www.ahp1.com

**Ad on page 95**

### Cretex Specialty Products

Waukesha, WI  
800-345-3764 • 262-542-8153 • Fax: 262-542-0301  
info@cretexseals.com  
www.cretexseals.com

**Ad on page 40**

### Dallas Specialty & Mfg. Co.

Grand Prairie, TX  
800-222-5644 • 972-641-8444 • Fax: 972-641-8488  
mike@dalspc.com  
www.dallasspecialty.com

### Fibertech Inc.

Elberfeld, IN  
800-304-4600 • 812-983-2642 • Fax: 812-983-4953  
www.fibertechinc.net

### H2TR

East Lansing, MI  
517-204-2121  
cam.howie@H2techrescue.com  
www.H2TR.com

**Ad on page 131**

**30**  
RAVEN  
LINING SYSTEMS  
ANNIVERSARY

**Visit us at WEFTEC  
Booth #3017**

**THANKS TO ALL WHO HAVE BEEN A PART OF THE RAVEN JOURNEY!  
HERE'S TO ANOTHER 30 YEARS!**

**PROTECT WITH  
CONFIDENCE®**

**800.324.2810 | RAVENLINING.COM**



**LADTECH, Inc.**  
Buffalo, MN  
877-235-7464 • Fax: 651-415-1090 • Fax: 651-415-1090  
adjiring@ladtech.com  
www.ladtech.com  
**Ad on page 91**

**Milwaukee Rubber Products, Inc.**

Menomonee Falls, WI  
800-325-3730 • Fax: 262-781-7888 • Fax: 262-781-1742  
sales@milwaukeeerubber.com  
www.milwaukeeerubber.com  
**Ad on page 131**

**Mr. Manhole**

Delphos, OH  
419-741-9075 • Fax: 419-692-1600  
sales@mrmanhole.com  
www.mrmanhole.com

**Parson Environmental Products, Inc.**

Wernersville, PA  
800-356-9023 • 610-582-6060 • Fax: 610-582-6064  
info@parsonenvironmental.com  
www.parsonenvironmental.com

**Sewer Shield Composite LLC**

Mesa, AZ  
480-830-9537  
info@sewershieldcomposites.com  
www.sewershieldcomposites.com

**Simple Solutions Distributing**

West Milford, NJ  
800-667-8465 • 973-846-7817 • Fax: 973-858-0219  
sales@industrialodorcontrol.com  
www.industrialodorcontrol.com  
**Ad on page 132**

**Uticom Systems, Inc.**

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

**Whirlygig, Inc.**

Caldwell, ID  
800-307-4263 • Fax: 208-454-2093  
info@wgig.us  
www.wgig.us

## Manhole Rehabilitation

**American Highway Products Ltd.**

Bolivar, OH  
888-272-2397 • 330-874-3270 • Fax: 330-874-3800  
sales@ahp1.com  
www.ahp1.com  
**Ad on page 95**

**AP/M Permaform**

Johnston, IA  
800-662-6465 • 515-276-9610 • Fax: 515-276-1274  
info@permaform.net  
www.permaform.net  
**Ad on page 83**



**CCI Pipeline Systems**  
Breaux Bridge, LA  
800-867-2772 • 337-332-5808 • Fax: 337-332-5809  
sales@ccipipe.com  
www.ccipipe.com  
**Ad on page 99**

**Cretex Specialty Products**

Waukesha, WI  
800-345-3764 • 262-542-8153 • Fax: 262-542-0301  
info@cretexseals.com  
www.cretexseals.com  
**Ad on page 40**



**CUES, Inc.**  
Orlando, FL  
800-327-7791 • 407-849-0190 • Fax: 407-425-1569  
salesinfo@cuesinc.com  
www.cuesinc.com  
**Ad on page 61**

**Duke's Root Control, Inc.**

Syracuse, NY  
800-447-6687 • 315-472-4781 • Fax: 315-475-4203  
lynn@dukes.com  
www.dukes.com  
**Ad on page 15**

**Environmental Coatings LLC**

Mesa, AZ  
480-984-7608  
info@sewershield.com  
www.sewershield.com

**Enz USA Inc.**

Aurora, IL  
877-362-8721 • 630-692-7880 • Fax: 630-692-7885  
salesusa@enz.com  
www.enzusainc.com  
**Ad on page 83**

**Fibertech Inc.**

Elberfeld, IN  
800-304-4600 • 812-983-2642 • Fax: 812-983-4953  
www.fibertechinc.net

**Granite Inliner**

Orleans, IN  
812-865-3232  
mike.green@gcinc.com  
www.inliner.com

**H2TR**

East Lansing, MI  
517-204-2121  
cam.howie@H2techrescue.com  
www.H2TR.com  
**Ad on page 131**

**Infrastructure Repair Systems, Inc.**

St. Petersburg, FL  
877-327-4216 • Fax: 877-327-4118  
irsi@irsi.net  
www.irsi.net

**JPCI Services**

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



**LADTECH, Inc.**  
Buffalo, MN  
877-235-7464 • Fax: 651-415-1090 • Fax: 651-415-1090  
adjiring@ladtech.com  
www.ladtech.com  
**Ad on page 91**

**Lametti & Sons**

Hugo, MN  
651-426-1380  
bretta@lametti.com  
www.lametti.com

**Linabond, Inc.**

Camarillo, CA  
805-484-7373  
info@linabond.com  
www.linabond.com

**LMK Technologies**

Ottawa, IL  
815-640-9302 • Fax: 815-433-0107  
info@lmktechnologies.com  
www.lmktechnologies.com  
**Ad on page 127**

**Mr. Manhole**

Delphos, OH  
419-741-9075 • Fax: 419-692-1600  
sales@mrmanhole.com  
www.mrmanhole.com



**Neopoxy International, Inc.**  
Hayward, CA  
510-782-1290 • Fax: 510-782-1292  
epoxy@neopoxy.us  
www.neopoxy.us  
**Ad on page 133**



**Parson Environmental Products, Inc.**  
Wernersville, PA  
800-356-9023 • 610-582-6060 • Fax: 610-582-6064  
info@parsonenvironmental.com  
www.parsonenvironmental.com



**Perma-Liner Industries, LLC**  
Clearwater, FL  
866-336-2568 • 727-507-9749 • Fax: 727-507-9849  
info@perma-liner.com  
www.perma-liner.com  
**Ad on page 5**

**Raven Lining Systems**

Broken Arrow, OK  
800-324-2810 • 918-615-0020  
cookr@ravenlining.com  
www.ravenlining.com  
**Ad on page 89**

**Rock Creek MFG, LLC**

Wister, OK  
918-385-1530 • Fax: 918-647-9240  
obohannon@windstream.net  
www.grabbitomo.com



**RootX**

Salem, OR  
800-844-4974 • 503-364-2999 • Fax: 503-485-5229  
rootx@rootx.com  
www.rootx.com  
**Ad on page 57**



**SAERTEX multiCom LP**  
Huntersville, NC  
704-946-9229 • Fax: 704-464-5922  
multicom@saertex.com  
www.saertex-multicom.com  
**Ad on page 34**

**Sauereisen, Inc.**

Pittsburgh, PA  
412-963-0303 • Fax: 412-963-7620  
info@sauereisen.com  
www.sauereisen.com  
**Ad on page 105**

**Sealing Systems, Inc.**

Loretto, MN  
800-478-2054 • 763-478-2057 • Fax: 763-478-8868  
pam@ssisealingsystems.com  
www.ssisealingsystems.com  
**Ad on page 103**

**Sewer Equipment Co. of Florida**

New Smyrna Beach, FL  
800-635-2323 • 386-428-3303 • Fax: 386-427-4552  
csewerequipment@cflrr.com  
www.sewerequipmentco.com  
**Ad on page 130**



## This is your brain on "CRACKed" Concrete manholes

- How much do you spend on REHAB?
- How much do you spend on I&I?
- How much do you spend on WORKERS' COMP?



'LADTECH SYSTEM®' your HDP (recover)E

### The First alternative to concrete and mortar

Ladtech Inc. guarantees a full five year limited warranty, if for any reason you return adjustment rings to the manufacturer they will be replaced at no charge.

Ladtech, Inc. 100% recycled HDPE manhole risers provide a watertight system that prevents I&I and costly rehabilitation. A single 4" plastic adjustment ring weighs a mere 12 pounds verses it's concrete counterpart at 180 pounds. It's a no brainer... REALLY!! Visit Ladtech on our website or call for more info: 877-235-7464



Concrete ADJ Rings Installed 1997



Ladtech ADJ Rings Installed 1997



www.ladtech.com

**InfoSight**  
Corporation  
*"We BARCODE Difficult Stuff™"*

## INTRODUCING...

**TwinTag™**



InfoSight LDAR TwinTags offer a flexible, cost-effective way of meeting the EPA's Leak Detection and Repair requirements.

**LubeTag™**



InfoSight's labeling system for lubrication ensures that the correct type of lubrication is used on the proper pieces of equipment.

Available in 8 colors plus white - preprinted to your specifications or blank for printing on-site.



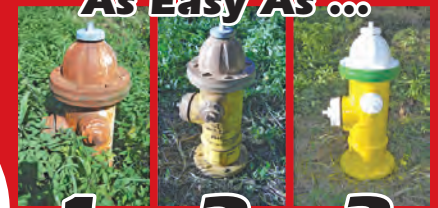
www.infosight.com  
Chillicothe, OH 45601  
740-642-3600  
sales@infosight.com

## The Plug Hug

### Fire Hydrant Cleaning System:

Make Fire Hydrants  
"Paint Ready" in 2 minutes

**As Easy As ...**



**1 2 3**

**PURCHASE • RENT • FIELD SERVICES**

Call for Details

**ACT NOW**  
**5% OFF**  
& **FREE SHIPPING**  
For Orders Received  
by Dec. 31

Clear Snow Covered &  
Plowed Under Fire  
Hydrants in 60 Seconds



See Our Updated Website  
[www.ThePlugHug.com](http://www.ThePlugHug.com)  
**719 313 2791**

douglasmarsall@theplughug.com | [www.facebook.com/theplughug](http://www.facebook.com/theplughug)

**Sewer Shield Composite LLC**  
Mesa, AZ  
480-830-9537  
info@sewershieldcomposites.com  
www.sewershieldcomposites.com

**Southland Tool Mfg. Inc.**  
Anaheim, CA  
714-632-8198 • Fax: 714-632-8228  
sales@southlandtool.com  
www.southlandtool.com  
**Ad on page 129**

**SpectraShield Liner Systems**  
Jacksonville, FL  
800-284-2030 • 904-419-4889 • Fax: 904-419-4892  
info@spectrashield.com  
www.spectrashield.com  
**Ad on page 63**

THE  
**Strong Company**  
INC.

**The Strong Company, Inc.**  
Pine Bluff, AR  
800-982-8009 • 870-535-7617 • Fax: 870-850-6933  
info@strongseal.com  
www.strongseal.com

**Vortex Companies**  
Houston, TX  
855-949-3441  
sales@vortexcompanies.com  
www.vortexcompanies.com

**Whirlygig, Inc.**  
Caldwell, ID  
800-307-4263 • Fax: 208-454-2093  
info@wgig.us  
www.wgig.us

## Manhole Vacuum Testing



**LADTECH, Inc.**  
Buffalo, MN  
877-235-7464 • Fax: 651-415-1090 • Fax: 651-415-1090  
adjiring@ladtech.com  
www.ladtech.com  
**Ad on page 91**

**lansas**

**Lansas Mfg. by Vanderlans & Sons Inc.**  
Lodi, CA  
800-452-4902 • 209-334-4115 • Fax: 209-339-8260  
info@lansas.com  
www.lansas.com

**Mr. Manhole**  
Delphos, OH  
419-741-9075 • Fax: 419-692-1600  
sales@mmanhole.com  
www.mmanhole.com

**Sewer Equipment Co. of Florida**  
New Smyrna Beach, FL  
800-635-2323 • 386-428-3303 • Fax: 386-427-4552  
csewerequipment@cfl.rr.com  
www.sewerequipmentco.com  
**Ad on page 130**

**Whirlygig, Inc.**  
Caldwell, ID  
800-307-4263 • Fax: 208-454-2093  
info@wgig.us  
www.wgig.us

## Meter Boxes/ Components

**Dallas Specialty & Mfg. Co.**  
Grand Prairie, TX  
800-222-5644 • 972-641-8444 • Fax: 972-641-8488  
mike@dalspc.com  
www.dallasspecialty.com

**Ferguson Waterworks**  
Newport News, VA  
www.ferguson.com/waterworks  
**Ad on page 69**

**Mueller Water Products**  
Atlanta, GA  
800-423-1323 • 770-206-4200  
moreinfo@muellercompany.com  
www.muellerwaterproducts.com

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

## Meters - Sewer/Flow

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

**Greyline Instruments**  
Largo, FL  
888-473-9546 • 315-788-9500 • Fax: 315-764-0419  
info@greyline.com  
www.greyline.com  
**Ad on page 20**



**MARSH  
McBIRNEY** SIGMA  
**Hach - Flow Products & Services**  
Loveland, CO  
800-368-2723  
www.hachflow.com  
**Ad on page 53**

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

**TESCO**  
**CONTROLS, INC.**

**Tesco Controls, Inc.**  
Sacramento, CA  
800-948-3726 • 916-395-8800  
sales@tescocontrols.com  
tescocontrols.com

## Meters - Water/Flow

**Blue-White**  
**Industries, Ltd.**

**Blue-White Industries**  
Huntington Beach, CA  
714-893-8529 • Fax: 714-894-9492  
sales@blue-white.com  
www.blue-white.com  
**Ad on page 43**

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

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

**Ferguson Waterworks**  
Newport News, VA  
www.ferguson.com/waterworks  
**Ad on page 69**

**Greyline Instruments**  
Largo, FL  
888-473-9546 • 315-788-9500 • Fax: 315-764-0419  
info@greyline.com  
www.greyline.com  
**Ad on page 20**



**MARSH  
McBIRNEY** SIGMA  
**Hach - Flow Products & Services**  
Loveland, CO  
800-368-2723  
www.hachflow.com  
**Ad on page 53**

**Mueller Water Products**  
Atlanta, GA  
800-423-1323 • 770-206-4200  
moreinfo@muellercompany.com  
www.muellerwaterproducts.com

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

**Singer**  
Surrey, BC  
Canada  
888-764-7858 • 604-594-5404 • Fax: 604-594-8845  
singer@singervalve.com  
www.singervalve.com  
**Ad on page 24**

**TESCO**  
**CONTROLS, INC.**

**Tesco Controls, Inc.**  
Sacramento, CA  
800-948-3726 • 916-395-8800  
sales@tescocontrols.com  
tescocontrols.com

**Universal Flow Monitors, Inc.**  
Hazel Park, MI  
888-569-3090 • 248-542-9635 • Fax: 248-398-4274  
sales@flowmeters.com  
www.flowmeters.com

## Mobile Communications

**Aarcomm Systems Inc.**  
Coquitlam, BC  
Canada  
800-604-9218  
sales@aarcomm.com  
www.aarcomm.com

**Fleet Complete**  
Toronto, ON  
Canada  
800-220-0779 • 905-944-0863  
marketing@fleetcomplete.com  
www.fleetcomplete.com  
**Ad on page 133**

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

**Sonetics**  
Portland, OR  
800-833-4558 • 503-684-7080 • Fax: 503-620-2943  
sales@soneticscorp.com  
www.soneticscorp.com  
**Ad on page 75**

**Telog, A Trimble Company**  
Victor, NY  
585-742-3000 • Fax: 585-742-3006  
ContactUs@trimble.com  
www.trimblewater.com

## Monitoring Equipment

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

**Fleet Complete**  
Toronto, ON  
Canada  
800-220-0779 • 905-944-0863  
marketing@fleetcomplete.com  
www.fleetcomplete.com  
**Ad on page 133**

**Greyline Instruments**

Largo, FL  
888-473-9546 • 315-788-9500 • Fax: 315-764-0419  
info@greyline.com  
www.greyline.com  
**Ad on page 20**

**Hach - Flow Products & Services**

Loveland, CO  
800-368-2723  
www.hachflow.com  
**Ad on page 53**

**Kohler Power Systems**

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

**PRIMEX**

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

**SmartCover Systems**

Escondido, CA  
760-291-1980  
sales@smartcoversystems.com  
www.smartcoversystems.com  
**Ad on page 11**

**Telog, A Trimble Company**

Victor, NY  
585-742-3000 • Fax: 585-742-3006  
ContactUs@trimble.com  
www.trimblewater.com



**Tesco Controls, Inc.**

Sacramento, CA  
800-948-3726 • 916-395-8800  
sales@tescocontrols.com  
tescocontrols.com

**Multipower Units**

**HIPPO Multipower**

Riverside, MO  
800-844-0624 • 816-474-4643  
hippo@hippomultipower.com  
www.hippomultipower.com  
**Ad on page 25**

**Nozzles - High Pressure**

**3T Equipment Co. Inc.**

Santa Rosa, CA  
707-543-8555 • Fax: 707-543-8558  
tk3equip@aol.com  
www.3tequipco.com  
**Ad on page 133**

**American Jetter**

Knoxville, TN  
866-944-3569 • 865-524-4647 • Fax: 865-247-5105  
andy@americanjetter.com  
www.americanjetter.com  
**Ad on page 132**



**American Sewer Parts & Cleaning**

Menomonee Falls, WI  
800-666-0766 • 262-783-6666 • Fax: 262-783-4860  
sales@americansewerparts.com  
www.americansewerparts.com  
**Ad on page 21**



**Arthur Products Co.**

Medina, OH  
800-322-0510 • 330-725-4905 • Fax: 330-722-2698  
apc@apclsq.com  
www.arthurproducts.com  
**Ad on page 87**

**Envirosight**

Randolph, NJ  
866-936-8476 • 973-252-6700 • Fax: 973-252-1176  
office@envirosight.com  
www.envirosight.com  
**Ad on page 2**



**Enz USA Inc.**

Aurora, IL  
877-362-8721 • 630-692-7880 • Fax: 630-692-7885  
salesusa@enz.com  
www.enzusa.com  
**Ad on page 83**

**GapVax, Inc.**

Johnstown, PA  
888-442-7829 • 814-535-6766 • Fax: 814-539-3617  
inquiry@gapvax.com  
www.gapvax.com  
**Ad on page 135**

**General Pump**

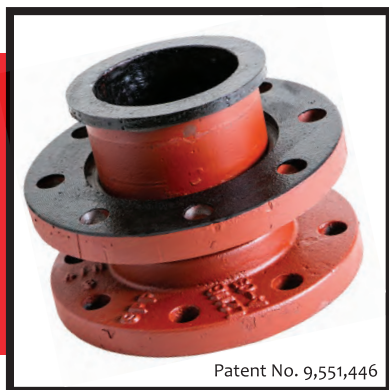
Mendota Heights, MN  
888-474-5487 • 651-454-6500 • Fax: 651-454-8015  
sales@gpcompanies.com  
www.generalpump.com

**Giant Industries**

Toledo, OH  
800-633-4565 • 419-531-4600 • Fax: 419-531-6836  
sales@giantpumps.com  
www.giantpumps.com

# Foundry Services Co.

A Division of Kempf Holdings, LLC



Patent No. 9,551,446

## The "Kempf Kollar"

A Face-to-Face Positive Restrained Rotating Pipe Flange

"The Kempf Kollar" or KK a solution to improper two-holing and bolt hole misalignment of field applications. The KK gives you the ability to insure proper wall spool alignment or to re-align a run of pipe already in place.

- 360 Degree Circumferential support on the rotating flange end.
- American Toruseal® high quality low torque NSF 61 gasket for the rotating flange end is included.
- Manufactured using Ductile Iron Class 53 conforms to C115/A21.15-08 and C151/A21.51-09.
- Rotating flange conforms to ANSI/AWWA C115.11 and ANSI B16.5 Class 150/125 drilling pattern.

402-451-0674 | [www.foundryservicesco.com](http://www.foundryservicesco.com)

## Hot Jet USA

Riverton, UT  
800-624-8186 • 801-545-0777  
sales@hotjetusa.com  
www.hotjetusa.com

Ad on page 131

## KEG Technologies, Inc.

Spartanburg, SC  
866-595-0515 • 864-804-6637  
sales@kegtechnologies.net  
www.kegtechnologies.net

## MTech

Cleveland, OH  
800-362-0240 • 440-646-0996 • Fax: 440-646-9953  
sales@mtechcompany.com  
www.mtechcompany.com

Ad on page 130

## MyTana Manufacturing

St. Paul, MN  
800-328-8170 • 651-222-1738 • Fax: 651-222-1739  
mytana@mytana.com  
www.mytana.com

## NLB Corporation

Wixom, MI  
248-624-5555  
nlbmtg@nlbusa.com  
www.nlbcorp.com



## NozzTeq Inc.

Clearwater, FL  
866-620-5915 • 727-223-4979 • Fax: 603-413-6744  
info@nozzteq.com  
www.nozzteq.com  
Ad on page 107

## Root Rat

Bolivar, OH  
800-288-7873 • 330-874-4300 • Fax: 330-874-4448  
chempure@gmail.com  
www.rootrat.net

Ad on page 109

## Sewer Equipment

Dixon, IL  
888-477-7611 • Fax: 815-284-0453  
sales@sewerequipment.com  
www.sewerequipment.com

Ad on page 13

## Sewer Equipment Co. of Florida

New Smyrna Beach, FL  
800-635-2323 • 386-428-3303 • Fax: 386-427-4552  
csewerequipment@cfl.rr.com  
www.sewerequipmentco.com

Ad on page 130



## Sewer Pro Shop, LLC

Marietta, GA  
877-864-9394 • 470-592-1715 • Fax: 770-984-2802  
info@sewerproshop.com  
www.sewerproshop.com

## Sewer Shark

Lodi, CA  
209-993-5549  
rob@sewersharkmfg.com  
www.sewershark.net

Ad on page 130

## Southland Tool Mfg. Inc.

Anaheim, CA  
714-632-8198 • Fax: 714-632-8228  
sales@southlandtool.com  
www.southlandtool.com

Ad on page 129



## Spartan Tool

Mendota, IL  
800-435-3866  
sales@spartantool.com  
www.spartantool.com

## Suttner America Company

Dubuque, IA  
800-831-0660  
sales@suttner.com  
www.suttner.com



## USB-USA

USB-USA LLC  
Douglasville, GA  
844-285-5770 • 678-214-7965 • Fax: 678-649-1766  
info@usb-usa.com  
www.usb-usa.com

Ad on page 34

## Vector Manufacturing

Streator, IL  
800-627-3171 • 815-672-3171  
sales@vactor.com  
www.vactor.com

Ad on page 3

## Vaughan Company, Inc.

Montesano, WA  
888-249-2467 • 360-249-4042 • Fax: 360-249-6155  
info@chopperpumps.com  
www.chopperpumps.com

Ad on page 37

## Odor Control Products/Equipment

## Anue Water Technologies, Inc.

Tucker, GA  
760-727-2683  
tchandler@anuewater.com  
www.anuewater.com

## Bionetix International

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

## Chempace Corporation

Toledo, OH  
800-423-5350 • 419-535-0101 • Fax: 419-535-0531  
tmock@chempace.com  
www.chempace.com

Ad on page 97

## Jack Doheny Companies

Northville, MI  
800-336-4369  
info@dohenycompanies.com  
www.dohenycompanies.com

## Parson Environmental Products, Inc.

Wernersville, PA  
800-356-9023 • 610-582-6060 • Fax: 610-582-6064  
info@parsonenvironmental.com  
www.parsonenvironmental.com

## Safe-Tee Chemical Company

Scottsdale, AZ  
866-366-0587 • 480-968-6828 • Fax: 480-968-6776  
service@safetechemical.com  
www.safetechemical.com

Ad on page 132

## Simple Solutions Distributing

West Milford, NJ  
800-667-8465 • 973-846-7817 • Fax: 973-858-0219  
sales@industrialodorcontrol.com  
www.industrialodorcontrol.com

Ad on page 132

## Superior Signal Company LLC

Spotswood, NJ  
800-945-8378 • 732-251-0800 • Fax: 732-251-9442  
info@superiorsignal.com  
www.superiorsignal.com/msw

Ad on page 133

## Oil Spill Recovery/ Clean-up

## Anue Water Technologies, Inc.

Tucker, GA  
760-727-2683  
tchandler@anuewater.com  
www.anuewater.com

## Bionetix International

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

## Elastec

Carmi, IL  
618-382-2525 • Fax: 618-382-3610  
elastec@elastec.com  
www.elastec.com

Ad on page 85



## Eldred Environmental & Export Co. LTD

Milan, IL  
800-613-3640 • 309-787-3640 • Fax: 309-787-3635  
info@fol-da-tank.com  
www.eldredenvironmental.com

## Milwaukee Rubber Products, Inc.

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

Ad on page 131

## Safe-Tee Chemical Company

Scottsdale, AZ  
866-366-0587 • 480-968-6828 • Fax: 480-968-6776  
service@safetechemical.com  
www.safetechemical.com

Ad on page 132

## Pipe - Concrete

## ICS, Blount, Inc.

Portland, OR  
800-321-1240 • Fax: 503-653-4393  
marketing@icsdiamondtools.com  
www.icsdiamondtools.com

## Pipe - Fiberglass

## Reline America, Inc.

Salville, VA  
866-998-0808 • 276-496-4000  
info@relineamerica.com  
www.relineamerica.com

Ad on page 101

## SubSurface Instruments, Inc.

De Pere, WI  
855-422-6346 • 920-347-1788 • Fax: 920-347-1791  
paul.renard@ssilocators.com  
www.ssilocators.com

Ad on page 131

## Pipe - Polyethylene



## Advanced Drainage Systems, Inc.

Hilliard, OH  
800-821-6710 • Fax: 614-658-0204  
info@ads-pipe.com  
www.ads-pipe.com

## Dallas Specialty & Mfg. Co.

Grand Prairie, TX  
800-222-5644 • 972-641-8444 • Fax: 972-641-8488  
mike@dalspc.com  
www.dallaspecialty.com

## Fibertech Inc.

Elberfeld, IN  
800-304-4600 • 812-983-2642 • Fax: 812-983-4953  
www.fibertechinc.net

## IPEX USA LLC

Oakville, ON  
Canada  
800-463-9572 • 289-881-0120 • Fax: 905-403-1124  
marketing@ipexna.com  
www.ipexna.com

Ad on page 41



# The Quality Stormwater Management System.

With BMP's advanced products—like the SNOUT® and the Bio-Skirt®, reducing pollutants in stormwater runoff has never been easier.



Made in the USA with over 70,000 SNOUTs installed since 1999.

For more information on how our system can solve your stormwater quality issues, contact us at 800.504.8008 or visit us at [bmpinc.com](http://bmpinc.com).



## AMERICAN HIGHWAY PRODUCTS LTD. RAISING AMERICA, ONE INCH AT A TIME

### the PIVOTED TURNBUCKLE Manhole Riser



The Most Efficient and Powerful Expanding Riser on the Market.

Riser heights 3/4" and up in all diameters. 1" diametric variance and DOT approved in most states.



**NEW! INCLINED RISER.** Now you can RAISE & TILT the manhole cover.

### SAFETY RAMPS ELIMINATE

- Vehicle Damage Claims •
- Material Cost for Cold Patch •
- Labor and Disposal Costs •



**Catch Basin & Valve Box Risers** reduce costs and streamline adjustments



**I.D. Locator** allows for easy location of common utilities and aids in identifying striping



**Sewer Lid Seal Kit** eliminates lid vibration and reduces moisture penetration



**Rubber Adjusting Ring** protects sub-structure, eliminates noise and vibration



**EZ Lift** will unseat, lift, and set down a manhole cover in one smooth motion



Toll Free 1-888-272-2397 - [www.ahp1.com](http://www.ahp1.com) - e-mail: [sales@ahp1.com](mailto:sales@ahp1.com) - Free DVD/CD ROM



**JM Eagle**  
Los Angeles, CA  
800-621-4404 • 310-693-8200 • Fax: 310-693-8249  
marcusmin@jmeagle.com  
www.jmeagle.com

**Miller Pipeline**  
Indianapolis, IN  
800-428-3742 • 317-293-0278 • Fax: 317-653-5200  
info@millerpipeline.com  
www.millerpipeline.com  
**Ad on page 10**



**WL PLASTICS**  
*The Ideal Piping Solution*  
**WL Plastics Corp.**  
Fort Worth, TX  
682-831-2700 • Fax: 682-831-2710  
wlsales@wlplastics.com  
www.wlplastics.com

## Pipe - Polypropylene



**Advanced Drainage Systems, Inc.**  
Hilliard, OH  
800-821-6710 • Fax: 614-658-0204  
info@ads-pipe.com  
www.ads-pipe.com

**IPEX USA LLC**  
Oakville, ON  
Canada  
800-463-9572 • 289-881-0120 • Fax: 905-403-1124  
marketing@ipexna.com  
www.ipexna.com  
**Ad on page 41**

## Pipe - PVC

**IPEX USA LLC**  
Oakville, ON  
Canada  
800-463-9572 • 289-881-0120 • Fax: 905-403-1124  
marketing@ipexna.com  
www.ipexna.com  
**Ad on page 41**



**JM Eagle**  
Los Angeles, CA  
800-621-4404 • 310-693-8200 • Fax: 310-693-8249  
marcusmin@jmeagle.com  
www.jmeagle.com

**Miller Pipeline**  
Indianapolis, IN  
800-428-3742 • 317-293-0278 • Fax: 317-653-5200  
info@millerpipeline.com  
www.millerpipeline.com  
**Ad on page 10**

**SubSurface Instruments, Inc.**  
De Pere, WI  
855-422-6346 • 920-347-1788 • Fax: 920-347-1791  
paul.renard@ssilocators.com  
www.ssilocators.com  
**Ad on page 131**

## Pipe - Supports



**CCI Pipeline Systems**  
Breaux Bridge, LA  
800-867-2772 • 337-332-5808 • Fax: 337-332-5809  
sales@ccipipe.com  
www.ccipipe.com  
**Ad on page 99**

## Pipe Bursting

**HammerHead Trenchless**  
Lake Mills, WI  
800-331-6653 • 920-648-4848  
www.hammerheadtrenchless.com  
**Ad on page 79**

**Miller Pipeline**  
Indianapolis, IN  
800-428-3742 • 317-293-0278 • Fax: 317-653-5200  
info@millerpipeline.com  
www.millerpipeline.com  
**Ad on page 10**

**Pow-R Mole Sales, LLC**  
Lancaster, NY  
800-344-6653  
www.powmole.com



**Spartan Tool**  
Mendota, IL  
800-435-3866  
sales@spartantool.com  
www.spartantool.com



**TRIC Tools, Inc.**  
Alameda, CA  
888-883-8742 • 510-629-4167 • Fax: 510-217-9493  
john.rafferty@trictools.com  
www.trictools.com

**Vortex Companies**  
Houston, TX  
855-949-3441  
sales@vortexcompanies.com  
www.vortexcompanies.com

## Pipe Crawlers

**Deep Trekker**  
Kirchner, ON  
Canada  
519-342-9177  
www.deeptrekker.com/dt340-crawler  
**Ad on page 65**

## Pipe Cutters

**ICS, Blount, Inc.**  
Portland, OR  
800-321-1240 • Fax: 503-653-4393  
marketing@icsdiamondtools.com  
www.icsdiamondtools.com

**LMK Technologies**  
Ottawa, IL  
815-640-9302 • Fax: 815-433-0107  
info@lmktechnologies.com  
www.lmktechnologies.com  
**Ad on page 127**

**Reed Manufacturing**  
Erie, PA  
800-666-3691 • 814-452-3691 • Fax: 814-455-1697  
reedsales@reedmfgco.com  
www.reedmfgco.com  
**Ad on page 97**

**Schwalm USA**  
Greenville, SC  
855-949-3441  
ckane@schwalm-usa.com  
www.schwalm-usa.com

## Pipe Parts - Fittings & Components

**Advanced Drainage Systems, Inc.**  
Hilliard, OH  
800-821-6710 • Fax: 614-658-0204  
info@ads-pipe.com  
www.ads-pipe.com



**CCI Pipeline Systems**  
Breaux Bridge, LA  
800-867-2772 • 337-332-5808 • Fax: 337-332-5809  
sales@ccipipe.com  
www.ccipipe.com  
**Ad on page 99**

**Foundry Services Co.**  
Omaha, NE  
402-451-0674 • Fax: 402-457-6710  
kkempf@foundryservicesco.com  
www.foundryservicesco.com  
**Ad on page 93**

**Hastings Irrigation Pipe Co.**  
Hastings, NE  
800-759-8823 • 402-463-6633 • Fax: 402-463-4355  
www.hastingsirrigation.com

**IPEX USA LLC**  
Oakville, ON  
Canada  
800-463-9572 • 289-881-0120 • Fax: 905-403-1124  
marketing@ipexna.com  
www.ipexna.com  
**Ad on page 41**



**Total Piping Solutions, Inc.**  
Olean, NY  
716-372-0160 • Fax: 716-372-1767  
sales@tps.us  
www.tps.us  
**Ad on page 40**

## Pipe Plugs

**3T Equipment Co. Inc.**  
Santa Rosa, CA  
707-543-8555 • Fax: 707-543-8558  
tk3tequip@aol.com  
www.3tequipco.com  
**Ad on page 123**

**Dallas Specialty & Mfg. Co.**  
Grand Prairie, TX  
800-222-5644 • 972-641-8444 • Fax: 972-641-8488  
mike@dalspc.com  
www.dallasspecialty.com



**Lansas Mfg. by Vanderlans & Sons Inc.**  
Lodi, CA  
800-452-4902 • 209-334-4115 • Fax: 209-339-8260  
info@lansas.com  
www.lansas.com

**NozzTeq Inc.**  
Clearwater, FL  
866-620-5915 • 727-223-4979 • Fax: 603-413-6744  
info@nozzteq.com  
www.nozzteq.com  
**Ad on page 107**

**Parson Environmental Products, Inc.**  
Wernersville, PA  
800-356-9023 • 610-582-6060 • Fax: 610-582-6064  
info@parsonenvironmental.com  
www.parsonenvironmental.com

**Petersen Products Co.**  
Fredonia, WI  
800-926-1926 • 262-692-2416 • Fax: 262-692-2418  
sales@petersenproducts.com  
www.petersenproducts.com  
**Ad on page 107**



**Sewer Equipment Co. of Florida**

New Smyrna Beach, FL  
800-635-2323 • 386-428-3303 • Fax: 386-427-4552  
csewerequipment@cfl.rr.com  
[www.sewerequipmentco.com](http://www.sewerequipmentco.com)

Ad on page 130

**Pipe Thawing**

**General Pipe Cleaners/General Wire Spring**

McKees Rocks, PA  
800-245-6200 • 412-771-6300  
info@drainbrain.com  
[www.drainbrain.com](http://www.drainbrain.com)

Ad on page 31

**Pipeline Rehabilitation/Lining**

**AP/M Permaform**

Johnston, IA  
800-662-6465 • 515-276-9610 • Fax: 515-276-1274  
info@permaform.net  
[www.permaform.net](http://www.permaform.net)

Ad on page 83



**APPLIED FELTS**  
YOUR SUCCESS IS OUR SUCCESS

**Applied Felts, Inc.**

Martinsville, VA  
276-656-1904  
info@appliedfelts.com  
appliedfelts.com

Ad on page 35

**Aries Industries, Inc.**

Waukesha, WI  
800-345-7205 • 262-896-7205 • Fax: 262-896-7099  
sales@ariesindustries.com  
[www.ariesindustries.com](http://www.ariesindustries.com)

Ad on page 27

**Cretex Specialty Products**

Waukesha, WI  
800-345-3764 • 262-542-8153 • Fax: 262-542-0301  
info@cretexseals.com  
[www.cretexseals.com](http://www.cretexseals.com)

Ad on page 40

**Duke's Root Control, Inc.**

Syracuse, NY  
800-447-6687 • 315-472-4781 • Fax: 315-475-4203  
lynn@dukes.com  
[www.dukes.com](http://www.dukes.com)

Ad on page 15



**Emagineered Solutions, Inc.**

Redmond, OR  
541-504-0416  
ray.i@emagineered.com  
[www.theshooterpcpp.com](http://www.theshooterpcpp.com)

**Ferratex, Inc.**

Livingston, NJ  
973-609-5449  
justing@ferratex.com  
[www.ferratex.com](http://www.ferratex.com)



**Granite Inliner**

Orleans, IN  
812-865-3232  
mike.green@gcinc.com  
[www.inliner.com](http://www.inliner.com)

**HammerHead Trenchless**

Lake Mills, WI  
800-331-6653 • 920-648-4848  
[www.hammerheadtrenchless.com](http://www.hammerheadtrenchless.com)

Ad on page 79

**HydraTech Engineered Products**

Cincinnati, OH  
513-827-9169 • Fax: 513-827-9171  
info@hydrattechllc.com  
[www.hydrattechllc.com](http://www.hydrattechllc.com)

**Infrastructure Repair Systems, Inc.**

St. Petersburg, FL  
877-327-4216 • Fax: 877-327-4118  
irsi@irsi.net  
[www.irsi.net](http://www.irsi.net)

**IPEX USA LLC**

Oakville, ON  
Canada  
800-463-9572 • 289-881-0120 • Fax: 905-403-1124  
marketing@ipexna.com  
[www.ipexna.com](http://www.ipexna.com)

Ad on page 41

**Lametti & Sons, Inc.**



**Lametti & Sons**

Hugo, MN  
651-426-1380  
bretta@lametti.com  
[www.lametti.com](http://www.lametti.com)

**Linabond, Inc.**

Camarillo, CA  
805-484-7373  
info@linabond.com  
[www.linabond.com](http://www.linabond.com)

**REED**  
PIPE TOOLS & VISES  
SINCE 1896  
**CUT SAFE. CUT CLEAN.**

**LOW-CLEARANCE ROTARY™ CUTTER**

**UNIVERSAL PIPE CUTTER**

**HINGED CUTTER**

Reed Manufacturing  
[www.reedmfgco.com](http://www.reedmfgco.com) • Erie, PA • 800-666-3691

**POWERHOUSE MUNICIPAL SOLUTIONS**

**chempace** corporation  
[www.CHEMPACE.com](http://www.CHEMPACE.com)

**CONTINUOUS TREATMENT!**

**bioFORCE BRICK**  
Bacterial treatment, controls odors & reduces grease

**bioFORCE HEAVY DUTY GREASE PACKETS**  
Biological grease control

**ORANGE AID**  
Floating degreaser & deodorizer dissolves grease and sludge  
CITRUS AROMA

**SEWER FOAM**  
Dual-action, foaming cleaner with long-lasting bacterial treatment. Eliminates sewer line solids & hydrogen sulfide odors!

**ECONOMICAL SEWER MAINTENANCE!**

**BEFORE AFTER**  
CALL FOR FREE DVD!

**800-423-5350**  
BUYING DIRECT ALWAYS EQUALS COST SAVINGS!

## LMK Technologies

Ottawa, IL  
815-640-9302 • Fax: 815-433-0107  
info@lmktechnologies.com  
www.lmktechnologies.com

Ad on page 127

## Miller Pipeline

Indianapolis, IN  
800-428-3742 • 317-293-0278 • Fax: 317-653-5200  
info@millerpipeline.com  
www.millerpipeline.com

Ad on page 10

## Neopoxy International, Inc.

Hayward, CA  
510-782-1290 • Fax: 510-782-1292  
epoxy@neopoxy.us  
www.neopoxy.us

Ad on page 133



**Perma-Liner Industries, LLC**  
Clearwater, FL  
866-336-2568 • 727-507-9749 • Fax: 727-507-9849  
info@perma-liner.com  
www.perma-liner.com

Ad on page 5

## Petersen Products Co.

Fredonia, WI  
800-926-1926 • 262-692-2416 • Fax: 262-692-2418  
sales@petersenproducts.com  
www.petersenproducts.com

Ad on page 107

## Pow-R Mole Sales, LLC

Lancaster, NY  
800-344-6653  
www.powrmole.com

## RauschUSA

Chambersburg, PA  
877-728-7241 • 717-709-1005 • Fax: 717-709-1009  
sales@rauschusa.com  
www.rauschusa.com

Ad on page 71

## Raven Lining Systems

Broken Arrow, OK  
800-324-2810 • 918-615-0020  
cookr@ravenlining.com  
www.ravenlining.com

Ad on page 89

## Reline America, Inc.

Saltville, VA  
866-998-0808 • 276-496-4000  
info@relineamerica.com  
www.relineamerica.com

Ad on page 101



**SAERTEX multiCom LP**  
Huntersville, NC  
704-946-9229 • Fax: 704-464-5922  
multicom@saertex.com  
www.saertex-multicom.com

Ad on page 34

## Sewer Equipment Co. of Florida

New Smyrna Beach, FL  
800-635-2323 • 386-428-3303 • Fax: 386-427-4552  
csewerequipment@cfl.rr.com  
www.sewerequipmentco.com

Ad on page 130



## Sewer Pro Shop, LLC

Marietta, GA  
877-864-9394 • 470-592-1715 • Fax: 770-984-2802  
info@sewerproshop.com  
www.sewerproshop.com

## Superior Signal Company LLC

Spotswood, NJ  
800-945-8378 • 732-251-0800 • Fax: 732-251-9442  
info@superiorsignal.com  
www.superiorsignal.com/msw

Ad on page 133



## The Strong Company, Inc.

Pine Bluff, AR  
800-982-8009 • 870-535-7617 • Fax: 870-850-6933  
info@strongseal.com  
www.strongseal.com

## Vortex Companies

Houston, TX  
855-949-3441  
sales@vortexcompanies.com  
www.vortexcompanies.com

## Pipeline Stopping

### Hydra-Stop LLC

Burr Ridge, IL  
800-538-7867 • 708-389-5111 • Fax: 708-389-5125  
hydra-stopsales@hydra-stop.com  
www.hydra-stop.com

### Lansas Mfg. by Vanderlans & Sons Inc.

Lodi, CA  
800-452-4902 • 209-334-4115 • Fax: 209-339-8260  
info@lansas.com  
www.lansas.com

### Petersen Products Co.

Fredonia, WI  
800-926-1926 • 262-692-2416 • Fax: 262-692-2418  
sales@petersenproducts.com  
www.petersenproducts.com

Ad on page 107

## Sewer Equipment Co. of Florida

New Smyrna Beach, FL  
800-635-2323 • 386-428-3303 • Fax: 386-427-4552  
csewerequipment@cfl.rr.com  
www.sewerequipmentco.com

Ad on page 130



## Total Piping Solutions, Inc.

Olean, NY  
716-372-0160 • Fax: 716-372-1767  
sales@tps.us  
www.tps.us

Ad on page 40

## Pipeline Surveying & Mapping (GPS/GIS)



## CUES, Inc.

Orlando, FL  
800-327-7791 • 407-849-0190 • Fax: 407-425-1569  
salesinfo@cuesinc.com  
www.cuesinc.com

Ad on page 61

## Fleet Complete

Toronto, ON  
Canada  
800-220-0779 • 905-944-0863  
marketing@fleetcomplete.com  
www.fleetcomplete.com

Ad on page 133

## Hurco Technologies, Inc.

Harrisburg, SD  
800-888-1436 • 605-743-2466  
info@hurcotech.com  
www.hurcotech.com

Ad on page 24

## InfoSense, Inc.

Charlotte, NC  
877-747-3245 • Fax: 704-930-0145  
achurchill@infosense.com  
www.infosense.com

Ad on page 8



## ITpipes, LLC

Albuquerque, NM  
877-487-4737 • 505-341-0109  
cori@itpipes.com  
www.itpipes.com

## RapidView IBAK North America

Rochester, IN  
800-656-4225 • 574-224-5426 • Fax: 574-223-7953  
sales@rapidview.com  
www.rapidview.com

Ad on page 49

## RauschUSA

Chambersburg, PA  
877-728-7241 • 717-709-1005 • Fax: 717-709-1009  
sales@rauschusa.com  
www.rauschusa.com

Ad on page 71



## SubSurface Instruments, Inc.

De Pere, WI  
855-422-6346 • 920-347-1788 • Fax: 920-347-1791  
paul.renard@ssillocators.com  
www.ssillocators.com

Ad on page 131

## Trio-Vision, LLC

Smyrna, GA  
800-443-3761 • 770-435-8991 • Fax: 770-435-0402  
www.trio-vision.com

## Vivax-Metrotech Corp.

Santa Clara, CA  
800-446-3392 • 408-734-1400  
info@vxmt.com  
www.vivax-metrotech.com

Ad on page 20

## Pipeline Tapping

### Hydra-Stop LLC

Burr Ridge, IL  
800-538-7867 • 708-389-5111 • Fax: 708-389-5125  
hydra-stopsales@hydra-stop.com  
www.hydra-stop.com

### Mueller Water Products

Atlanta, GA  
800-423-1323 • 770-206-4200  
moreinfo@muellercompany.com  
www.muellerwaterproducts.com

### Petersen Products Co.

Fredonia, WI  
800-926-1926 • 262-692-2416 • Fax: 262-692-2418  
sales@petersenproducts.com  
www.petersenproducts.com

Ad on page 107



## Total Piping Solutions, Inc.

Olean, NY  
716-372-0160 • Fax: 716-372-1767  
sales@tps.us  
www.tps.us

Ad on page 40

## Plant Maintenance & Rehabilitation

### Environmental Coatings LLC

Mesa, AZ  
480-984-7608  
info@sewershield.com  
www.sewershield.com

### JPCI Services

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

## Positive Displacement Blowers

### GapVax, Inc.

Johnstown, PA  
888-442-7829 • 814-535-6766 • Fax: 814-539-3617  
inquiry@gapvax.com  
www.gapvax.com  
Ad on page 135

### Superior Signal Company LLC

Spotswood, NJ  
800-945-8378 • 732-251-0800 • Fax: 732-251-9442  
info@superiorsignal.com  
www.superiorsignal.com/msw  
Ad on page 133

## Pressure Testing Equipment

### Giant Industries

Toledo, OH  
800-633-4565 • 419-531-4600 • Fax: 419-531-6836  
sales@giantpumps.com  
www.giantpumps.com

### Telog, A Trimble Company

Victor, NY  
585-742-3000 • Fax: 585-742-3006  
ContactUs@trimble.com  
www.trimblewater.com

## Pressure Washers and Sprayers



**Cam Spray**  
Iowa Falls, IA  
800-648-5011 • 641-648-5011 • Fax: 641-648-5013  
sales@camspray.com  
www.camspray.com  
Ad on page 38

### Dultmeier Sales

Omaha, NE  
800-228-9666 • 402-333-1444 • Fax: 402-333-5546  
dultmeier@dultmeier.com  
www.dultmeier.com

### Hot Jet USA

Riverton, UT  
800-624-8186 • 801-545-0777  
sales@hotjetusa.com  
www.hotjetusa.com  
Ad on page 131

### NLB Corporation

Wixom, MI  
248-624-5555  
nlbmtkg@nlbusa.com  
www.nlbcorp.com

### Root Rat

Bolivar, OH  
800-288-7873 • 330-874-4300 • Fax: 330-874-4448  
chempure@gmail.com  
www.rootrat.net  
Ad on page 109

### Suttner America Company

Dubuque, IA  
800-831-0660  
sales@suttner.com  
www.suttner.com

### Water Cannon, Inc. - MWBE

Lake Mary, FL  
800-333-9274 • 321-800-5763 • Fax: 888-928-9274  
sales@watercannon.com  
www.watercannon.com/catalogrequest.aspx

Ad on page 133

## Pump Parts / Components



### American Sewer Parts & Cleaning

Menomonee Falls, WI  
800-666-0766 • 262-783-6666 • Fax: 262-783-4860  
sales@americansewerparts.com  
www.americansewerparts.com  
Ad on page 21

### AMT Pump Company

Royersford, PA  
610-948-3800 • Fax: 610-948-5300  
sales@amtump.com  
www.amtump.com  
Ad on page 26

### Cat Pumps

Minneapolis, MN  
763-780-5440 • Fax: 763-780-2858  
info@catpumps.com  
www.catpumps.com

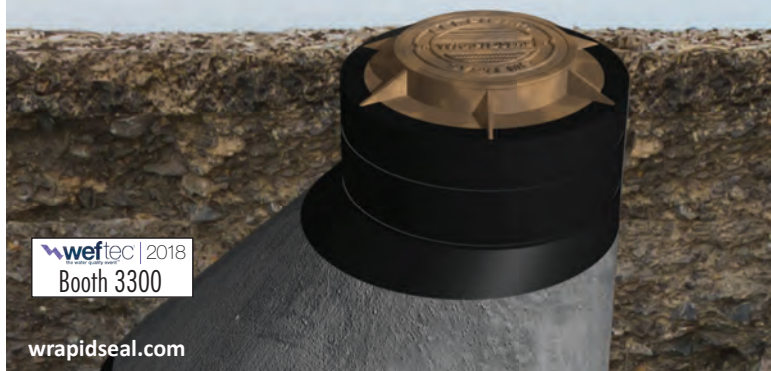


## WRAPIDSEAL™ MANHOLE ENCAPSULATION SYSTEM

Your **Positive** Solution for  
New Construction & Manhole Rehabilitation


### FEATURES & BENEFITS

- Cost Effective
- Fast & Easy Installation
- Bulk Rolls, Field-Cut to Size
- Heat-Activated, High-Shrink Membrane
- Complete Coverage Prevents I & I
- Excellent Abrasion Resistance
- Improves Structural Integrity
- High Tensile & Elongation



weftec | 2018  
Booth 3300

[wrapidseal.com](http://wrapidseal.com)



## ADVANCED WATER LEAK DETECTOR

The LD-18 Digital Water Leak Detector uses patented technology to significantly reduce ambient noises from dogs barking, footsteps, people talking, etc. The digital amplifier samples the sounds every few tenths of a second, rejecting intermittent sounds instantly.

See the LD-18 at [www.subsurfaceleak.com](http://www.subsurfaceleak.com).

**SubSurface Locators™**  
(408) 249-4673  
[www.subsurfaceleak.com](http://www.subsurfaceleak.com)

weftec | 2018  
Booth 4506

## GapVax, Inc.

Johnstown, PA  
888-442-7829 • 814-535-6766 • Fax: 814-539-3617  
inquiry@gapvax.com  
www.gapvax.com

Ad on page 135

## General Pump

Mendota Heights, MN  
888-474-5487 • 651-454-6500 • Fax: 651-454-8015  
sales@gpcompanies.com  
www.generalpump.com

## Giant Industries

Toledo, OH  
800-633-4565 • 419-531-4600 • Fax: 419-531-6836  
sales@giantpumps.com  
www.giantpumps.com

## Gorman-Rupp Company

Mansfield, OH  
419-755-1011  
grsales@gormanrupp.com  
www.GRpumps.com

Ad on page 113

## JAECO Fluid Systems

Malvern, PA  
610-407-7207 • Fax: 610-240-4906  
dszwak@jaecofs.com  
www.jaecofs.com

Ad on page 39

## PRIMEX

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

## Sewer Equipment Co. of Florida

New Smyrna Beach, FL  
800-635-2323 • 386-428-3303 • Fax: 386-427-4552  
csewerequipment@cfl.rr.com  
www.sewerequipmentco.com

Ad on page 130

## Smith & Loveless, Inc.

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

## Sulzer Pumps Solutions Inc.

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

## Vaughan Company, Inc.

Montesano, WA  
888-249-2467 • 360-249-4042 • Fax: 360-249-6155  
info@chopperpumps.com  
www.chopperpumps.com

Ad on page 37

## Vertiflo Pump Company

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

Ad on page 133

## Pump Repair/Services

### Smith & Loveless, Inc.

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

## Pumps - Aeration

### JAECO Fluid Systems

Malvern, PA  
610-407-7207 • Fax: 610-240-4906  
dszwak@jaecofs.com  
www.jaecofs.com

Ad on page 39

### Sulzer Pumps Solutions Inc.

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

## Pumps - Centrifugal

### AMT Pump Company

Royersford, PA  
610-948-3800 • Fax: 610-948-5300  
sales@amtump.com  
www.amtump.com

Ad on page 26

### Vertiflo Pump Company

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

Ad on page 133

## Pumps - Dewatering/ Bypass

### AMT Pump Company

Royersford, PA  
610-948-3800 • Fax: 610-948-5300  
sales@amtump.com  
www.amtump.com

Ad on page 26



**GLOBAL PUMP**  
Global Pump  
Davison, MI  
866-360-7867 • 810-653-4828 • Fax: 810-658-0632  
sales@globalpump.com  
www.globalpump.com

### Gorman-Rupp Company

Mansfield, OH  
419-755-1011  
grsales@gormanrupp.com  
www.GRpumps.com

Ad on page 113

### Komline-Sanderson

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

Ad on page 87

## Pow-R Mole Sales, LLC

Lancaster, NY  
800-344-6653  
www.powrmole.com

## Sulzer Pumps Solutions Inc.

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

## Vaughan Company, Inc.

Montesano, WA  
888-249-2467 • 360-249-4042 • Fax: 360-249-6155  
info@chopperpumps.com  
www.chopperpumps.com

Ad on page 37

## Vertiflo Pump Company

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

Ad on page 133



**WASTECORP**  
Pumps

### Wastecorp Pumps

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

### Wilo USA

Rosemont, IL  
888-945-6872 • Fax: 888-945-6873  
info@wilo-usa.com  
www.wilo-usa.com

Ad on page 117

## Pumps - Diaphragm

### JAECO Fluid Systems

Malvern, PA  
610-407-7207 • Fax: 610-240-4906  
dszwak@jaecofs.com  
www.jaecofs.com

Ad on page 39

## Pumps - Effluent/ Sewage/Sump

### AMT Pump Company

Royersford, PA  
610-948-3800 • Fax: 610-948-5300  
sales@amtump.com  
www.amtump.com

Ad on page 26

### Boerger, LLC

Chanhasen, MN  
612-435-7300 • Fax: 612-435-7301  
america@boerger.com  
www.boerger.com

### Dultmeier Sales

Omaha, NE  
800-228-9666 • 402-333-1444 • Fax: 402-333-5546  
dultmeier@dultmeier.com  
www.dultmeier.com

## GLOBAL PUMP

Global Pump  
Davison, MI  
866-360-7867 • 810-653-4828 • Fax: 810-658-0632  
sales@globalpump.com  
www.globalpump.com

## Gorman-Rupp Company

Mansfield, OH  
419-755-1011  
grsales@gormanrupp.com  
www.GRpumps.com

Ad on page 113

## JAECO Fluid Systems

Malvern, PA  
610-407-7207 • Fax: 610-240-4906  
dszwak@jaecofs.com  
www.jaecofs.com

Ad on page 39

## Liberty Pumps

Liberty Pumps  
Bergen, NY  
800-543-2550 • 585-494-1817 • Fax: 585-494-1839  
liberty@libertypumps.com  
www.libertypumps.com

## Milwaukee Rubber Products, Inc.

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

Ad on page 131

## Smith & Loveless, Inc.

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

## Sulzer Pumps Solutions Inc.

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

## Vaughan Company, Inc.

Montesano, WA  
888-249-2467 • 360-249-4042 • Fax: 360-249-6155  
info@chopperpumps.com  
www.chopperpumps.com

Ad on page 37

## VERTIFLO PUMP COMPANY The Industrial Pump Specialists

### Vertiflo Pump Company

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

Ad on page 133



**WASTECORP.  
Pumps®**

**Wastecorp Pumps**

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

**Wilo USA**

Rosemont, IL  
888-945-6872 • Fax: 888-945-6873  
info@wilo-usa.com  
www.wilo-usa.com  
Ad on page 117

**Pumps - Grinder**

**AMT Pump Company**

Royersford, PA  
610-948-3800 • Fax: 610-948-5300  
sales@amtump.com  
www.amtump.com  
Ad on page 26



**Liberty Pumps**

Bergen, NY  
800-543-2550 • 585-494-1817 • Fax: 585-494-1839  
liberty@libertypumps.com  
www.libertypumps.com

**Sulzer Pumps Solutions Inc.**

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

**Vertiflo Pump Company**

Cincinnati, OH  
513-530-0888 • Fax: 513-530-0893  
sales@vertiflopump.com  
www.vertiflopump.com  
Ad on page 133

**Wilo USA**

Rosemont, IL  
888-945-6872 • Fax: 888-945-6873  
info@wilo-usa.com  
www.wilo-usa.com  
Ad on page 117

**Pumps - High Pressure Water**

**American Jetter**

Knoxville, TN  
866-944-3569 • 865-524-4647 • Fax: 865-247-5105  
andy@americanjetter.com  
www.americanjetter.com  
Ad on page 132



**American Sewer Parts & Cleaning**

Menomonee Falls, WI  
800-666-0766 • 262-783-6666 • Fax: 262-783-4860  
sales@americansewerparts.com  
www.americansewerparts.com  
Ad on page 21

**AMT Pump Company**

Royersford, PA  
610-948-3800 • Fax: 610-948-5300  
sales@amtump.com  
www.amtump.com  
Ad on page 26

**Cat Pumps**

Minneapolis, MN  
763-780-5440 • Fax: 763-780-2858  
info@catpumps.com  
www.catpumps.com

**Dultmeier Sales**

Omaha, NE  
800-228-9666 • 402-333-1444 • Fax: 402-333-5546  
dultmeier@dultmeier.com  
www.dultmeier.com

**GapVax, Inc.**

Johnstown, PA  
888-442-7829 • 814-535-6766 • Fax: 814-539-3617  
inquiry@gapvax.com  
www.gapvax.com  
Ad on page 135

**General Pump**

Mendota Heights, MN  
888-474-5487 • 651-454-6500 • Fax: 651-454-8015  
sales@gpcompanies.com  
www.generalpump.com

**Giant Industries**

Toledo, OH  
800-633-4565 • 419-531-4600 • Fax: 419-531-6836  
sales@giantpumps.com  
www.giantpumps.com



**Global Pump**  
Davison, MI  
866-360-7867 • 810-653-4828 • Fax: 810-658-0632  
sales@globalpump.com  
www.globalpump.com

**Gorman-Rupp Company**

Mansfield, OH  
419-755-1011  
grsales@gormanrupp.com  
www.GRpumps.com  
Ad on page 113

**Komline-Sanderson**

Peapack, NJ  
800-225-5457 • 908-234-1000 • Fax: 908-234-9487  
info@komline.com  
www.komline.com  
Ad on page 87



**T&T Tools, Inc.**  
**800.521.6893**



**Hooks...**

- \* Heat treated for long life
- \* Manhole Cover Hooks
- \* Septic Tank Lid Hooks
- \* Many styles available
- \* "T" handles for two hands or compact "D" handles

**Probes...**

- \* Insulated, Standard and Specialty
- \* Metal shafts: 3/8 round or hex
- \* Replaceable hardened tips
- \* Optional "slide" available to make your probe a mini-slide hammer

**Call for a FREE Catalog**

Email: sales@mightyprobe.com Fax: 800.521.3260

**FAILING PIPES?**

**IT'S ALPHALINER®  
TO THE RESCUE**



**SUPERHERO  
OF TRENCHLESS REHAB**

Rely on the field proven leader in UV GRP technology to renew and protect your vital infrastructure.

- ✓ Reduced Environmental & Community Impact
- ✓ USA Based Manufacturer of Liners & Equipment
- ✓ Lower Life-Cycle Costs

**RELINE  
AMERICA™**

Call or Click Today 866.998.0808  
www.relineamerica.com

**NLB Corporation**  
Wixom, MI  
248-624-5555  
nlbmtg@nlbusa.com  
www.nlbcorp.com

**Root Rat**  
Bolivar, OH  
800-288-7873 • 330-874-4300 • Fax: 330-874-4448  
chempure@gmail.com  
www.rootrat.net  
**Ad on page 109**

**Sonetics**  
Portland, OR  
800-833-4558 • 503-684-7080 • Fax: 503-620-2943  
sales@soneticscorp.com  
www.soneticscorp.com  
**Ad on page 75**

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

**Water Cannon, Inc. - MWBE**  
Lake Mary, FL  
800-333-9274 • 321-800-5763 • Fax: 888-928-9274  
sales@watercannon.com  
www.watercannon.com/catalogrequest.aspx  
**Ad on page 133**

**Wilo USA**  
Rosemont, IL  
888-945-6872 • Fax: 888-945-6873  
info@wilo-usa.com  
www.wilo-usa.com  
**Ad on page 117**

## Pumps - Metering

**Blue-White Industries, Ltd.**

**Blue-White Industries**  
Huntington Beach, CA  
714-893-8529 • Fax: 714-894-9492  
sales@blue-white.com  
www.blue-white.com  
**Ad on page 43**

**JAECO Fluid Systems**  
Malvern, PA  
610-407-7207 • Fax: 610-240-4906  
dszwak@jaecofs.com  
www.jaecofs.com  
**Ad on page 39**

## Pumps - Solids/Sludge

**AMT Pump Company**  
Royersford, PA  
610-948-3800 • Fax: 610-948-5300  
sales@amtump.com  
www.amtump.com  
**Ad on page 26**

**Komline-Sanderson**  
Peapack, NJ  
800-225-5457 • 908-234-1000 • Fax: 908-234-9487  
info@komline.com  
www.komline.com  
**Ad on page 87**

**Vertiflo Pump Company**  
Cincinnati, OH  
513-530-0888 • Fax: 513-530-0893  
sales@vertiflopump.com  
www.vertiflopump.com  
**Ad on page 133**

## Pumps - Stormwater

**AMT Pump Company**  
Royersford, PA  
610-948-3800 • Fax: 610-948-5300  
sales@amtump.com  
www.amtump.com  
**Ad on page 26**

**GLOBAL PUMP**  
Global Pump  
Davison, MI  
866-360-7867 • 810-653-4828 • Fax: 810-658-0632  
sales@globalpump.com  
www.globalpump.com

**Gorman-Rupp Company**  
Mansfield, OH  
419-755-1011  
grsales@gormanrupp.com  
www.GRpumps.com  
**Ad on page 113**

**Vaughan Company, Inc.**  
Montesano, WA  
888-249-2467 • 360-249-4042 • Fax: 360-249-6155  
info@chopperpumps.com  
www.chopperpumps.com  
**Ad on page 37**

**VERTIFLO PUMP COMPANY**  
The Industrial Pump Specialists

**Vertiflo Pump Company**  
Cincinnati, OH  
513-530-0888 • Fax: 513-530-0893  
sales@vertiflopump.com  
www.vertiflopump.com  
**Ad on page 133**

**Wilo USA**  
Rosemont, IL  
888-945-6872 • Fax: 888-945-6873  
info@wilo-usa.com  
www.wilo-usa.com  
**Ad on page 117**

## Pumps - Test

**Hurco Technologies, Inc.**  
Harrisburg, SD  
800-888-1436 • 605-743-2466  
info@hurcotech.com  
www.hurcotech.com  
**Ad on page 24**

**NLB Corporation**  
Wixom, MI  
248-624-5555  
nlbmtg@nlbusa.com  
www.nlbcorp.com

## Pumps - Vacuum Pressure

**Dultmeier Sales**  
Omaha, NE  
800-228-9666 • 402-333-1444 • Fax: 402-333-5546  
dultmeier@dultmeier.com  
www.dultmeier.com

**Milwaukee Rubber Products, Inc.**  
Menomonee Falls, WI  
800-325-3730 • 262-781-7888 • Fax: 262-781-1742  
sales@milwaukeerubber.com  
www.milwaukeerubber.com  
**Ad on page 131**

**Sewer Equipment Co. of Florida**  
New Smyrna Beach, FL  
800-635-2323 • 386-428-3303 • Fax: 386-427-4552  
csewerequisite@cfl.rr.com  
www.sewerequisiteco.com  
**Ad on page 130**

**Vacuum Sales, Inc.**  
Lindenwold, NJ  
800-547-7790 • 856-627-7790 • Fax: 856-627-3044  
sales@vacuumsalesinc.com  
www.vacuumsalesinc.com

## Pumps - Vertical/Lift Station

**Gorman-Rupp Company**  
Mansfield, OH  
419-755-1011  
grsales@gormanrupp.com  
www.GRpumps.com  
**Ad on page 113**

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

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

**Vaughan Company, Inc.**  
Montesano, WA  
888-249-2467 • 360-249-4042 • Fax: 360-249-6155  
info@chopperpumps.com  
www.chopperpumps.com  
**Ad on page 37**

**VERTIFLO PUMP COMPANY**  
The Industrial Pump Specialists

**Vertiflo Pump Company**  
Cincinnati, OH  
513-530-0888 • Fax: 513-530-0893  
sales@vertiflopump.com  
www.vertiflopump.com  
**Ad on page 133**

**Wilo USA**  
Rosemont, IL  
888-945-6872 • Fax: 888-945-6873  
info@wilo-usa.com  
www.wilo-usa.com  
**Ad on page 117**

## Pumps - Washdown

**AMT Pump Company**  
Royersford, PA  
610-948-3800 • Fax: 610-948-5300  
sales@amtump.com  
www.amtump.com  
**Ad on page 26**

**Cat Pumps**  
Minneapolis, MN  
763-780-5440 • Fax: 763-780-2858  
info@catpumps.com  
www.catpumps.com

**Dultmeier Sales**  
Omaha, NE  
800-228-9666 • 402-333-1444 • Fax: 402-333-5546  
dultmeier@dultmeier.com  
www.dultmeier.com

**GapVax, Inc.**  
Johnstown, PA  
888-442-7829 • 814-535-6766 • Fax: 814-539-3617  
inquiry@gapvax.com  
www.gapvax.com  
**Ad on page 135**

**Giant Industries**  
Toledo, OH  
800-633-4565 • 419-531-4600 • Fax: 419-531-6836  
sales@giantpumps.com  
www.giantpumps.com

**Gorman-Rupp Company**  
Mansfield, OH  
419-755-1011  
grsales@gormanrupp.com  
www.GRpumps.com  
**Ad on page 113**

**JAECO Fluid Systems**  
Malvern, PA  
610-407-7207 • Fax: 610-240-4906  
dszwak@jaecofs.com  
www.jaecofs.com  
**Ad on page 39**

**Milwaukee Rubber Products, Inc.**  
Menomonee Falls, WI  
800-325-3730 • 262-781-7888 • Fax: 262-781-1742  
sales@milwaukeerubber.com  
www.milwaukeerubber.com  
**Ad on page 131**

**Vaughan Company, Inc.**  
Montesano, WA  
888-249-2467 • 360-249-4042 • Fax: 360-249-6155  
info@chopperpumps.com  
www.chopperpumps.com  
**Ad on page 37**

**Vertiflo Pump Company**  
Cincinnati, OH  
513-530-0888 • Fax: 513-530-0893  
sales@vertiflopump.com  
www.vertiflopump.com  
**Ad on page 133**

## Pumps – Water

### AMT Pump Company

Royersford, PA  
610-948-3800 • Fax: 610-948-5300  
sales@amtump.com  
www.amtump.com  
Ad on page 26

### Cat Pumps

Minneapolis, MN  
763-780-5440 • Fax: 763-780-2858  
info@catpumps.com  
www.catpumps.com

### GapVax, Inc.

Johnstown, PA  
888-442-7829 • 814-535-6766 • Fax: 814-539-2177  
inquiry@gapvax.com  
www.gapvax.com  
Ad on page 135

### General Pump

Mendota Heights, MN  
888-474-5487 • 651-454-6500 • Fax: 651-454-8015  
sales@gpcompanies.com  
www.generalpump.com

### Giant Industries

Toledo, OH  
800-633-4565 • 419-531-4600 • Fax: 419-531-6836  
sales@giantpumps.com  
www.giantpumps.com

### JAECO Fluid Systems

Malvern, PA  
610-407-7207 • Fax: 610-240-4906  
dszwak@jaecofs.com  
www.jaecofs.com  
Ad on page 39

### Milwaukee Rubber Products, Inc.

Menomonee Falls, WI  
800-325-3730 • 262-781-7888 • Fax: 262-781-1742  
sales@milwaukeeerubber.com  
www.milwaukeeerubber.com  
Ad on page 131

### NLB Corporation

Wixom, MI  
248-624-5555  
nlbmtg@nlbusa.com  
www.nlbcorp.com

### Sulzer Pumps Solutions Inc.

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

### Vertiflo Pump Company

Cincinnati, OH  
513-530-0888 • Fax: 513-530-0893  
sales@vertiflopump.com  
www.vertiflopump.com  
Ad on page 133

### Wilco USA

Rosemont, IL  
888-945-6872 • Fax: 888-945-6873  
info@wilco-usa.com  
www.wilco-usa.com  
Ad on page 117

## PVC Sewer Couplings

### Dallas Specialty & Mfg. Co.

Grand Prairie, TX  
800-222-5644 • 972-641-8444 • Fax: 972-641-8488  
mike@dalspc.com  
www.dallaspecialty.com

## Reinstatement Cutters

### Aries Industries, Inc.

Waukesha, WI  
800-234-7205 • 262-896-7205 • Fax: 262-896-7099  
sales@ariesindustries.com  
www.ariesindustries.com  
Ad on page 27



### CUES, Inc.

Orlando, FL  
800-327-7791 • 407-849-0190 • Fax: 407-425-1569  
salesinfo@cuesinc.com  
www.cuesinc.com  
Ad on page 61

### Enz USA Inc.

Aurora, IL  
877-362-8721 • 630-692-7880 • Fax: 630-692-7885  
salesusa@enz.com  
www.enzusainc.com  
Ad on page 83

### HammerHead Trenchless

Lake Mills, WI  
800-331-6653 • 920-648-4848  
www.hammerheadtrenchless.com  
Ad on page 79

### LMK Technologies

Ottawa, IL  
815-640-9302 • Fax: 815-433-0107  
info@lmktechnologies.com  
www.lmktechnologies.com  
Ad on page 127

Perma-Liner Industries, LLC  
Clearwater, FL  
866-336-2568 • 727-507-9749 • Fax: 727-507-9849  
info@perma-liner.com  
www.perma-liner.com  
Ad on page 5

# Prevents Inflow



### Flex-Seal Utility Sealant®

is a state of the art plural component aromatic urethane with an incredible 800% elongation and a tensile strength of 3200 psi.

Flex-Seal is designed to prevent inflow/infiltration and to provide corrosion protection at the grade adjustment ring section or joint section.



Flex-Seal Utility Sealant provides an excellent seal and it will pass a vacuum test according to ASTM standards. The internal seal is manually applied using a paint brush for a custom fit on any style manhole or catch basin.

weftec | 2018  
Booth 3909



Sealing Systems, Inc.  
800-478-2054  
www.ssisealingsystems.com

# THE REEL THAT WORKS AS HARD AS YOU

When it comes to your industry's toughest jobs, you demand quality and value – Hannay Reels delivers every time.

- Custom designed for heavy-duty applications
- Featuring rugged ribbed discs and one-piece axle hub assemblies
- Low, hassle-free maintenance
- Outlasts the competition and boosts your bottom line



Made in U.S.A.



Find your local dealer: [hannay.com](http://hannay.com) or 877-467-3357

**Hannay Reels®**  
The reel leader.



**Pipeline Renewal Technologies**  
Randolph, NJ  
866-936-8476 • 973-252-6700 • Fax: 973-252-1176  
mail@pipelinert.com  
www.pipelinert.com

Ad on page 33

### RapidView IBAK North America

Rochester, IN  
800-656-4225 • 574-224-5426 • Fax: 574-223-7953  
sales@rapidview.com  
www.rapidview.com

Ad on page 49

### Subsite Electronics

Perry, OK  
800-846-2713  
sales@subsite.com  
www.subsite.com

### TruGrit Traction Inc.

Winter Park, FL  
407-900-1091  
info@trugrittraction.com  
www.TruGritTraction.com

### Vortex Companies

Houston, TX  
855-949-3441  
sales@vortexcompanies.com  
www.vortexcompanies.com

## Rental Equipment

### American Shoring, Inc.

Newburgh, NY  
800-407-4674 • Fax: 845-562-2411  
sales@americanshoring.com  
www.americanshoring.com

Ad on page 14

### Aries Industries, Inc.

Waukesha, WI  
800-234-7205 • 262-896-7205 • Fax: 262-896-7099  
sales@ariesindustries.com  
www.ariesindustries.com

Ad on page 27

### Dynamic Repairs

Lodi, NJ  
973-478-0893 • Fax: 973-478-0895  
dynamicablerepairs@yahoo.com  
www.dynamicrepairs.biz

Ad on page 131

### Envirosight

Randolph, NJ  
866-936-8476 • 973-252-6700 • Fax: 973-252-1176  
office@envirosight.com  
www.envirosight.com

Ad on page 2

### Ferratex, Inc.

Livingston, NJ  
973-609-5449  
justing@ferratex.com  
www.ferratex.com



**Global Pump**  
Davison, MI  
866-360-7867 • 810-653-4828 • Fax: 810-658-0632  
sales@globalpump.com  
www.globalpump.com

### ICS, Blount, Inc.

Portland, OR  
800-321-1240 • Fax: 503-653-4393  
marketing@icsdiamondtools.com  
www.icsdiamondtools.com

### InfoSense, Inc.

Charlotte, NC  
877-747-3245 • Fax: 704-930-0145  
achurchill@infosense.com  
www.infosense.com

Ad on page 8



**Jack Doheny Companies**  
Northville, MI  
800-336-4369  
info@dohenycompanies.com  
www.dohenycompanies.com

### Kaiser Premier LLC

Fort Morgan, CO  
970-542-1975  
sales@kaiserpremier.com  
www.kaiserpremier.com

Ad on page 14

### KEG Technologies, Inc.

Spartanburg, SC  
866-595-0515 • 864-804-6637  
sales@kegtechnologies.net  
www.kegtechnologies.net

### Kohler Power Systems

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

### Lansas Mfg. by Vanderlans & Sons Inc.

Lodi, CA  
800-452-4902 • 209-334-4115 • Fax: 209-339-8260  
info@lansas.com  
www.lansas.com

### NLB Corporation

Wixom, MI  
248-624-5555  
nlbmktg@nlbusa.com  
www.nlbcorp.com



**NozzTeq Inc.**  
Clearwater, FL  
866-620-5915 • 727-223-4979 • Fax: 603-413-6744  
info@nozzteq.com  
www.nozzteq.com  
Ad on page 107

### Park Process

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

Ad on page 133

### Pipeline Renewal Technologies

Randolph, NJ  
866-936-8476 • 973-252-6700 • Fax: 973-252-1176  
mail@pipelinert.com  
www.pipelinert.com

Ad on page 33



### Rain for Rent

Bakersfield, CA  
800-742-7246  
info@rainforrent.com  
www.rainforrent.com

### Ratech Electronics, Ltd.

Concord, ON  
Canada  
800-461-9200 • 905-660-7072 • Fax: 905-660-1519  
sales@ratech-electronics.com  
www.ratech-electronics.com



### Sewer Equipment

Dixon, IL  
888-477-7611 • Fax: 815-284-0453  
sales@sewerequipment.com  
www.sewerequipment.com

Ad on page 13

### Subsite Electronics

Perry, OK  
800-846-2713  
sales@subsite.com  
www.subsite.com



**The Plug Hug LLC**  
Bellville, OH  
719-313-2791 • Fax: 719-213-2000  
douglasmrshall@theplughug.com  
www.theplughug.com  
Ad on page 91

### Vactor Manufacturing

Streator, IL  
800-627-3171 • 815-672-3171  
sales@vactor.com  
www.vactor.com

Ad on page 3

## Repair/Rebuilding Equipment

### AP/M Permaform

Johnston, IA  
800-662-6465 • 515-276-9610 • Fax: 515-276-1274  
info@permaform.net  
www.permaform.net

Ad on page 83

### Dynamic Repairs

Lodi, NJ  
973-478-0893 • Fax: 973-478-0895  
dynamicablerepairs@yahoo.com  
www.dynamicrepairs.biz

Ad on page 131

### Infrastructure Repair Systems, Inc.

St. Petersburg, FL  
877-327-4216 • Fax: 877-327-4118  
irsi@irsi.net  
www.irsi.net

### Jack Doheny Companies

Northville, MI  
800-336-4369  
info@dohenycompanies.com  
www.dohenycompanies.com

### Ratech Electronics, Ltd.

Concord, ON  
Canada  
800-461-9200 • 905-660-7072 • Fax: 905-660-1519  
sales@ratech-electronics.com  
www.ratech-electronics.com

### Reline America, Inc.

116 Battleground Ave.  
Saltville, VA 24370  
866-998-0808 • 276-496-4000  
info@relineamerica.com  
www.relineamerica.com

Ad on page



**The Plug Hug LLC**  
Bellville, OH  
719-313-2791 • Fax: 719-213-2000  
douglasmrshall@theplughug.com  
www.theplughug.com  
Ad on page 91

### Vactor Manufacturing

Streator, IL  
800-627-3171 • 815-672-3171  
sales@vactor.com  
www.vactor.com

Ad on page 3



**Vacuum Sales, Inc.**  
Lindenwold, NJ  
800-547-7790 • 856-627-7790 • Fax: 856-627-3044  
sales@vacuumsalesinc.com  
www.vacuumsalesinc.com

## Rodding Machines

### General Pipe Cleaners/General Wire Spring

McKees Rocks, PA  
800-245-6200 • 412-771-6300  
info@drainbrain.com  
www.drainbrain.com

Ad on page 31

### Sewer Equipment

Dixon, IL  
888-477-7611 • Fax: 815-284-0453  
sales@sewerequipment.com  
www.sewerequipment.com

Ad on page 13

### Sewer Equipment Co. of Florida

New Smyrna Beach, FL  
800-635-2323 • 386-428-3303 • Fax: 386-427-4552  
csewerequipment@cfl.rr.com  
www.sewerequipmentco.com

Ad on page 130

**Sonetics**  
Portland, OR  
800-833-4558 • 503-684-7080 • Fax: 503-620-2943  
sales@soneticscorp.com  
www.soneticscorp.com

Ad on page 75

### Southland Tool Mfg. Inc.

Anaheim, CA  
714-632-8198 • Fax: 714-632-8228  
sales@southlandtool.com  
www.southlandtool.com

Ad on page 129

## Root Control - Chemical

**DUKE'S**  
Product. Service. Guarantee.

**Duke's Root Control, Inc.**  
Syracuse, NY  
800-447-6687 • 315-472-4781 • Fax: 315-475-4203  
lynn@dukes.com  
www.dukes.com

Ad on page 15



**RootX**  
Salem, OR  
800-844-4974 • 503-364-2999 • Fax: 503-485-5229  
rootx@rootx.com  
www.rootx.com

Ad on page 57



**Vaporooter**  
Liberty, MO  
800-223-3684  
thor.burmeister@douglasproducts.com  
www.vaporooter.com

Ad on page 77

## Root Control - Mechanical

### American Jetter

Knoxville, TN  
866-944-3569 • 865-524-4647 • Fax: 865-247-5105  
andy@americanjetter.com  
www.americanjetter.com

Ad on page 132



### Arthur Products Co.

Medina, OH  
800-322-0510 • 330-725-4905 • Fax: 330-722-2698  
apc@apclsq.com  
www.arthurproducts.com

Ad on page 87

### Enz USA Inc.

Aurora, IL  
877-362-8721 • 630-692-7880 • Fax: 630-692-7885  
salesusa@enz.com  
www.enzsainc.com

Ad on page 83

### KEG Technologies, Inc.

Spartanburg, SC  
866-595-0515 • 864-804-6637  
sales@kegtechnologies.net  
www.kegtechnologies.net



## Ultimate Corrosion PROTECTION

Sauereisen's vast selection of polymer linings offer superior corrosion protection, chemical resistance and abrasion resistance for municipal and industrial treatment plants including the collection systems, concrete and steel tankage and secondary containment.

**Extend the life of your structure by contacting us for an Engineered Solution.**

**SAUEREISEN**

160 Gamma Drive  
Pittsburgh, PA 15238-2989, U.S.A.  
P (412) 963-0303 • F (412) 963-7620  
www.sauereisen.com



- IN STOCK OR CUSTOM BUILT
- MUNICIPAL FINANCING AVAILABLE
- BID SPEC WRITING AVAILABLE



SALES@FLOWMARK.COM | 1-(833) 653-8100 | FLOWMARK.COM

**MyTana Manufacturing**  
St. Paul, MN  
800-328-8170 • 651-222-1738 • Fax: 651-222-1739  
mytana@mytana.com  
www.mytana.com



**NozzTeq Inc.**  
Clearwater, FL  
866-620-5915 • 727-223-4979 • Fax: 603-413-6744  
info@nozzteq.com  
www.nozzteq.com  
Ad on page 107



**Perma-Liner Industries, LLC**  
Clearwater, FL  
866-336-2568 • 727-507-9749 • Fax: 727-507-9849  
info@perma-liner.com  
www.perma-liner.com  
Ad on page 5

**Root Rat**  
Bolivar, OH  
800-288-7873 • 330-874-4300 • Fax: 330-874-4448  
chempure@gmail.com  
www.rootrat.net  
Ad on page 109

**Sewer Equipment Co. of Florida**  
New Smyrna Beach, FL  
800-635-2323 • 386-428-3303 • Fax: 386-427-4552  
csewerequipment@cfl.rr.com  
www.sewerequipmentco.com  
Ad on page 130



**Sewer Pro Shop, LLC**  
Marietta, GA  
877-864-9394 • 470-592-1715 • Fax: 770-984-2802  
info@sewerproshop.com  
www.sewerproshop.com

**Southland Tool Mfg. Inc.**  
Anaheim, CA  
714-632-8198 • Fax: 714-632-8228  
sales@southlandtool.com  
www.southlandtool.com  
Ad on page 129

**Suttner America Company**  
Dubuque, IA  
800-831-0660  
sales@suttner.com  
www.suttner.com



**USB-USA**  
**USB-USA LLC**  
Douglasville, GA  
844-285-5770 • 678-214-7965 • Fax: 678-649-1766  
info@usb-usa.com  
www.usb-usa.com  
Ad on page 34

## Safety Equipment/ Personal Protection

**3T Equipment Co. Inc.**  
Santa Rosa, CA  
707-543-8555 • Fax: 707-543-8558  
tk3tequip@aol.com  
www.3tequipco.com  
Ad on page 123

**American Pleasure Products, Inc.**  
Rose City, MI  
989-685-2697 • Fax: 989-685-8484  
info@aquacycleusa.com  
www.aquacycleusa.com  
Ad on page 109

**American Shoring, Inc.**  
Newburgh, NY  
800-407-4674 • Fax: 845-562-2411  
sales@americanshoring.com  
www.americanshoring.com  
Ad on page 14

**Fleet Complete**  
Toronto, ON  
Canada  
800-220-0779 • 905-944-0863  
marketing@fleetcomplete.com  
www.fleetcomplete.com  
Ad on page 133

**H2TR**  
East Lansing, MI  
517-204-2121  
cam.howie@H2techrescue.com  
www.H2TR.com  
Ad on page 131

**Milwaukee Rubber Products, Inc.**  
Menomonee Falls, WI  
800-325-3730 • 262-781-7888 • Fax: 262-781-1742  
sales@milwaukeerubber.com  
www.milwaukeerubber.com  
Ad on page 131

**MyTana Manufacturing**  
St. Paul, MN  
800-328-8170 • 651-222-1738 • Fax: 651-222-1739  
mytana@mytana.com  
www.mytana.com

**NLB Corporation**  
Wixom, MI  
248-624-5555  
nlbmtg@nlbusa.com  
www.nlbcorp.com



**Sonetics**  
Portland, OR  
800-833-4558 • 503-684-7080 • Fax: 503-620-2943  
sales@soneticscorp.com  
www.soneticscorp.com  
Ad on page 75

**Southland Tool Mfg. Inc.**  
Anaheim, CA  
714-632-8198 • Fax: 714-632-8228  
sales@southlandtool.com  
www.southlandtool.com  
Ad on page 129

**Sto-Away Power Cranes, Inc.**  
Crown Point, IN  
800-622-9797 • 219-942-9797 • Fax: 219-947-2503  
stoaway@comcast.net  
www.stoaway.com  
Ad on page 123

**Tech Products, Inc.**  
Staten Island, NY  
800-221-1311 • 718-442-4900 • Fax: 718-442-2124  
info@techproducts.com  
www.techproducts.com



**The Plug Hug LLC**  
Bellville, OH  
719-313-2791 • Fax: 719-213-2000  
douglassmarshall@theplughug.com  
www.theplughug.com  
Ad on page 91

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

## Sand Removal

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

## Sanitary Sewer Collection System

**Fibertech Inc.**  
Elberfeld, IN  
800-304-4600 • 812-983-2642 • Fax: 812-983-4953  
www.fibertechinc.net

**Hach - Flow Products & Services**  
Loveland, CO  
800-368-2723  
www.hachflow.com  
Ad on page 53

**InfoSense, Inc.**  
Charlotte, NC  
877-747-3245 • Fax: 704-930-0145  
achurchill@infosense.com  
www.infosense.com  
Ad on page 8

**ITpipes, LLC**  
Albuquerque, NM  
877-487-4737 • 505-341-0109  
cori@itpipes.com  
www.itpipes.com

**Mr. Manhole**  
Delphos, OH  
419-741-9075 • Fax: 419-692-1600  
sales@mmanhole.com  
www.mmanhole.com

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

**Sauereisen, Inc.**  
Pittsburgh, PA  
412-963-0303 • Fax: 412-963-7620  
info@sauereisen.com  
www.sauereisen.com  
Ad on page 105

**Sealing Systems, Inc.**  
Loretto, MN  
800-478-2054 • 763-478-2057 • Fax: 763-478-8868  
pam@ssisealingsystems.com  
www.ssisealingsystems.com  
Ad on page 103

**SmartCover Systems**  
Escondido, CA  
760-291-1980  
sales@smartcoversystems.com  
www.smartcoversystems.com  
Ad on page 11

**Subsite Electronics**  
Perry, OK  
800-846-2713  
sales@subsite.com  
www.subsite.com

**Trio-Vision, LLC**  
Smyrna, GA  
800-443-3761 • 770-435-8991 • Fax: 770-435-0402  
www.trio-vision.com



**VAPOROOTER®**

**Vaporooter**  
Liberty, MO  
800-223-3684  
thor.burmeister@douglasproducts.com  
www.vaporooter.com  
Ad on page 77

## SCADA Systems

**Aarcomm Systems Inc.**  
Coquitlam, BC  
Canada  
800-604-9218  
sales@aarcomm.com  
www.aarcomm.com

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

**TESCO**  
**CONTROLS, INC.**

Tesco Controls, Inc.  
 Sacramento, CA  
 800-948-3726 • 916-395-8800  
 sales@tescocontrols.com  
 tescocontrols.com

**Scales - Onboard**

**Cleral USA On Board Scales**

Lodi, CA  
 866-901-7372 • 209-224-7270  
 www.cleral-usa.com  
**Ad on page 130**

**Screens - Wastewater**

**Enviro-Care**  
 A WAMGROUP Company  
 Soon to be SAVECO North America, Inc.

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

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

**Septage Receiving Stations**

**Enviro-Care**  
 A WAMGROUP Company  
 Soon to be SAVECO North America, Inc.

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

**Service Company**

**Fleet Complete**  
 Toronto, ON  
 Canada  
 800-220-0779 • 905-944-0863  
 marketing@fleetcomplete.com  
 www.fleetcomplete.com  
**Ad on page 133**

**Jack Doheny Companies**  
 Northville, MI  
 800-336-4369  
 info@dohenycompanies.com  
 www.dohenycompanies.com

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



**THE PLUG HUG**  
**The Plug Hug LLC**  
 Bellville, OH  
 719-313-2791 • Fax: 719-213-2000  
 douglasmarschall@theplughug.com  
 www.theplughug.com  
**Ad on page 91**

**Sewer Robotics**

**Schwalm USA**  
 Greenville, SC  
 855-949-3441  
 ckane@schwalm-usa.com  
 www.schwalm-usa.com

**Shoring Equipment**

**American Shoring, Inc.**  
 Newburgh, NY  
 800-407-4674 • Fax: 845-562-2411  
 sales@americanshoring.com  
 www.americanshoring.com  
**Ad on page 14**

**Ultra Shore**  
 Atlanta, GA  
 800-746-7464 • 404-505-0510 • Fax: 404-505-0506  
 info@shoring.com  
 www.shoring.com  
**Ad on page 87**

**Signs/Labels/Tags**

**InfoSight Corporation**  
 Chillicothe, OH  
 740-642-3600 • Fax: 740-642-5001  
 sales@infosight.com  
 www.infosight.com  
**Ad on page 91**

**Tech Products, Inc.**  
 Staten Island, NY  
 800-221-1311 • 718-442-4900 • Fax: 718-442-2124  
 info@techproducts.com  
 www.techproducts.com

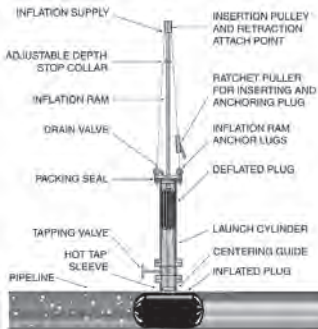
**Petersen® Pipe Plugging Systems**



weftec | 2018  
 Booth 7339

Pipe Plugs and Packers for all your Pressure, Chemical, and Temperature Requirements. Call us to quickly customize a pipe plug or plugging system for your specific application.

**Economical Hot Tap Plugging Systems**



**www.pipeplug.com**

**Petersen** PRODUCTS COMPANY  
 Serving Professionals Since 1916

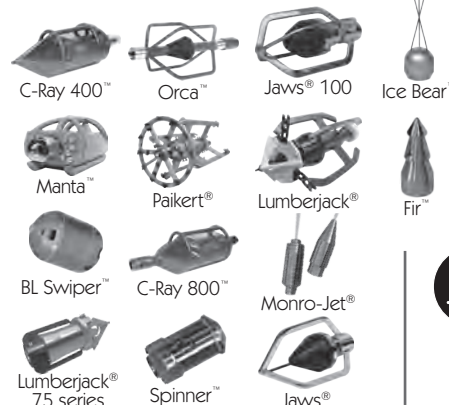
PHONE 800.769.4973 OR 262.692.2416  
 FAX 800.669.1434 OR 262.692.2418

**Blown Toilets?**

**BL Swiper™**



**Equipment Engineered for Long Lasting Performance™**



**CALL TODAY FOR AN ON-SITE DEMONSTRATION**

NAASCO Member



**NozzTeq**  
 Taking Science To The Sewer™

www.nozzteq.com  
 1.866.620.5915

## TerraTape

DIVISION OF REEF INDUSTRIES, INC.

Terra Tape® Underground Marking Tape

Houston, TX  
800-231-6074  
ri@reefindustries.com  
www.terratape.com

Uticom Systems, Inc.

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

## Sludge - Treatment

Bionetix International

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

Komline-Sanderson

Peapack, NJ  
800-225-5457 • 908-234-1000 • Fax: 908-234-9487  
info@komline.com  
www.komline.com  
Ad on page 87

Park Process

Houston, TX  
855-511-7275 • 713-937-7602 • Fax: 713-937-4254  
rcaughman@park-usa.com  
www.parkprocess.com  
Ad on page 133

Smith & Loveless, Inc.

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

Suttner America Company

Dubuque, IA  
800-831-0660  
sales@suttner.com  
www.suttner.com

Vaughan Company, Inc.

Montesano, WA  
888-249-2467 • 360-249-4042 • Fax: 360-249-6155  
info@chopperpumps.com  
www.chopperpumps.com  
Ad on page 37

## Software - Inspection/Mapping

Aries Industries, Inc.

Waukesha, WI  
800-234-7205 • 262-896-7205 • Fax: 262-896-7099  
sales@ariesindustries.com  
www.ariesindustries.com  
Ad on page 27



CTSpec

Boisbriand, QC  
Canada  
888-965-8987 • 450-979-7535 • Fax: 866-925-4747  
sales@ctspec.com  
www.ctspec.com  
Ad on page 51



CUES, Inc.

Orlando, FL  
800-327-7791 • 407-849-0190 • Fax: 407-425-1569  
salesinfo@cuesinc.com  
www.cuesinc.com  
Ad on page 61

Envirosight

Randolph, NJ  
866-936-8476 • 973-252-6700 • Fax: 973-252-1176  
office@envirosight.com  
www.envirosight.com  
Ad on page 2

Fleet Complete

Toronto, ON  
Canada  
800-220-0779 • 905-944-0863  
marketing@fleetcomplete.com  
www.fleetcomplete.com  
Ad on page 133

Hurco Technologies, Inc.

Harrisburg, SD  
800-888-1436 • 605-743-2466  
info@hurcotech.com  
www.hurcotech.com  
Ad on page 24

InfoSense, Inc.

Charlotte, NC  
877-747-3245 • Fax: 704-930-0145  
achurchill@infosense.com  
www.infosense.com  
Ad on page 8



ITpipes, LLC

Albuquerque, NM  
877-487-4737 • 505-341-0109  
cori@itpipes.com  
www.itpipes.com



ProComSol, Ltd

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

Subsite Electronics

Perry, OK  
800-846-2713  
sales@subsite.com  
www.subsite.com

Trio-Vision, LLC

Smyrna, GA  
800-443-3761 • 770-435-8991 • Fax: 770-435-0402  
www.trio-vision.com

Vivax-Metrotech Corp.

Santa Clara, CA  
800-446-3392 • 408-734-1400  
info@vxmt.com  
www.vivax-metrotech.com

Ad on page 20



WinCan LLC

Pittsburgh, PA  
877-626-8386  
sales.us@wincan.com  
www.wincan.com  
Ad on page 7

## Sonar Profiling



CUES, Inc.

Orlando, FL  
800-327-7791 • 407-849-0190 • Fax: 407-425-1569  
salesinfo@cuesinc.com  
www.cuesinc.com  
Ad on page 61

Subsite Electronics

Perry, OK  
800-846-2713  
sales@subsite.com  
www.subsite.com

Trio-Vision, LLC

Smyrna, GA  
800-443-3761 • 770-435-8991 • Fax: 770-435-0402  
www.trio-vision.com

## Storage Tanks

Dultmeier Sales

Omaha, NE  
800-228-9666 • 402-333-1444 • Fax: 402-333-5546  
dultmeier@dultmeier.com  
www.dultmeier.com



Eldred Environmental & Export Co. LTD

Milan, IL  
800-613-3640 • 309-787-3640 • Fax: 309-787-3635  
info@fol-da-tank.com  
www.eldredenvironmental.com

Kaiser Premier LLC

Fort Morgan, CO  
970-542-1975  
sales@kaiserpremier.com  
www.kaiserpremier.com

Ad on page 14

## Storm Drain Markers

Tech Products, Inc.

Staten Island, NY  
800-221-1311 • 718-442-4900 • Fax: 718-442-2124  
info@techproducts.com  
www.techproducts.com

## Stormwater Collection Systems

Advanced Drainage Systems, Inc.

Hilliard, OH  
800-821-6710 • Fax: 614-658-0204  
info@ads-pipe.com  
www.ads-pipe.com

Fibertech Inc.

Elberfeld, IN  
800-304-4600 • 812-983-2642 • Fax: 812-983-4953  
www.fibertechinc.net

Hach - Flow Products & Services

Loveland, CO  
800-368-2723  
www.hachflow.com  
Ad on page 53

ITpipes, LLC

Albuquerque, NM  
877-487-4737 • 505-341-0109  
cori@itpipes.com  
www.itpipes.com

Linabond, Inc.

Camarillo, CA  
805-484-7373  
info@linabond.com  
www.linabond.com

Mr. Manhole

Delphos, OH  
419-741-9075 • Fax: 419-692-1600  
sales@mrmmanhole.com  
www.mrmmanhole.com

Park Process

Houston, TX  
855-511-7275 • 713-937-7602 • Fax: 713-937-4254  
rcaughman@park-usa.com  
www.parkprocess.com  
Ad on page 133

PRIMEX

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

Reline America, Inc.

Saltillo, VA  
866-998-0808 • 276-496-4000  
info@relineamerica.com  
www.relineamerica.com  
Ad on page 101



**SAERTEX multiCom LP**  
Huntersville, NC  
704-946-9229 • Fax: 704-464-5922  
multicom@saertex.com  
www.saertex-multicom.com  
Ad on page 34

**SmartCover Systems**

Escondido, CA  
760-291-1980  
sales@smartcoversystems.com  
www.smartcoversystems.com  
Ad on page 11

**Subsite Electronics**

Perry, OK  
800-846-2713  
sales@subsite.com  
www.subsite.com

**Superior Signal Company LLC**

Spotswood, NJ  
800-945-8378 • 732-251-0800 • Fax: 732-251-9442  
info@superiorsignal.com  
www.superiorsignal.com/msw  
Ad on page 133

**Trio-Vision, LLC**

Smyrna, GA  
800-443-3761 • 770-435-8991 • Fax: 770-435-0402  
www.trio-vision.com

**VEGA Americas, Inc.**

Cincinnati, OH  
800-367-5383 • 513-272-0131 • Fax: 513-272-0133  
americas@vega.com  
www.vega.com  
Ad on page 67

**Whirlygig, Inc.**

Caldwell, ID  
800-307-4263 • Fax: 208-454-2093  
info@wgig.us  
www.wgig.us

**Stormwater Management**



**Advanced Drainage Systems, Inc.**

Hilliard, OH  
800-821-6710 • Fax: 614-658-0204  
info@ads-pipe.com  
www.ads-pipe.com

**Best Management Products, Inc.**

East Haddam, CT  
800-504-8008 • 410-687-6256 • Fax: 877-434-3197  
tjm@bmpinc.com  
www.bmpinc.com  
Ad on page 95

**CHEMetrics, Inc.**

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

**Fibertech Inc.**

Elberfeld, IN  
800-304-4600 • 812-983-2642 • Fax: 812-983-4953  
www.fibertechinc.net

**IPEX USA LLC**

Oakville, ON  
Canada  
800-463-9572 • 289-881-0120 • Fax: 905-403-1124  
marketing@ipexna.com  
www.ipexna.com  
Ad on page 41

**ITpipes, LLC**

Albuquerque, NM  
877-487-4737 • 505-341-0109  
cori@itpipes.com  
www.itpipes.com



**LADTECH, Inc.**

Buffalo, MN  
877-235-7464 • Fax: 651-415-1090 • Fax: 651-415-1090  
adjiring@ladtech.com  
www.ladtech.com  
Ad on page 91

**Reline America, Inc.**

116 Battleground Ave.  
Salville, VA 24370  
866-998-0808 • 276-496-4000  
info@relineamerica.com  
www.relineamerica.com  
Ad on page 9

**Sealing Systems, Inc.**

Loretto, MN  
800-478-2054 • 763-478-2057 • Fax: 763-478-8868  
pam@ssisealingsystems.com  
www.ssisealingsystems.com  
Ad on page 103

**Tech Products, Inc.**

Staten Island, NY  
800-221-1311 • 718-442-4900 • Fax: 718-442-2124  
info@techproducts.com  
www.techproducts.com



**BARGE OFFERS SAFE WORK AREA AND BOOSTS CONFIDENCE For Work On Treatment Ponds and Lagoons.**

- > 8' x 12' platform
- > Approximate weight 550lbs
- > Approximate capacity 1400lbs
- > 23" Diameter aluminum pontoons - #5052 x .080 wall thickness
- > Heavy duty outboard motor mount for small gasoline or electric motors
- > Vinyl Decking for easy clean up
- > Heavy duty protective hand rail with ¼ rail spacers
- > Protective lower rail (keeps tools on board)
- > Safety chains
- > Welded Lifting eyes at each corner

**OPTIONS:**

- > Battery box with solar charger
- > Boarding ladder
- > 1000-lb. capacity crane
- > Galvanized trailer
- > Life ring
- > Pivot arms (Used to secure barge to aerator tubes when service is being performed on diffuser drop tubes.)

**AMERICAN PLEASURE PRODUCTS INC.**

ROSE CITY, MI  
INFO@AQUACYCLEUSA.COM

989.685.2697

**RAT OUT YOUR ROOT PROBLEMS**

Root Rat nozzles are uniquely designed to make short work of big sewer line headaches – chewing up roots and encrustations in all kinds of pipe. Interchangeable heads use the chain rotor for major obstructions and the cable rotor for less aggressive problems.

Simplified service means extra uptime.



3/8", 1/2", 1" nozzles come in kit form.



**SEE IT IN ACTION**

Call 330.874.4300 to learn more about the nozzle you've been waiting for



Patented • Made in USA • www.rootrat.net

**Whirlygig, Inc.**  
Caldwell, ID  
800-307-4263 • Fax: 208-454-2093  
info@wgig.us  
www.wgig.us

## Stormwater Pretreatment

**Best Management Products, Inc.**  
East Haddam, CT  
800-504-8008 • 410-687-6256 • Fax: 877-434-3197  
tjm@bmpinc.com  
www.bmpinc.com  
Ad on page 95

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

## Trade Show

**WWETT Show**  
Irving, TX  
972-536-6477  
wwett.info@informa.com  
www.informalexhibitions.com  
Ad on page 134

## Trailers - Cable Reel/ Pipe Coil/Equipment

**Felling Trailers, Inc.**  
Sauk Centre, MN  
866-213-2948 • 320-352-5239 • Fax: 320-352-5230  
trailers@felling.com  
www.felling.com  
Ad on page 10

## Trailers - Lowboy/ Equipment

**Felling Trailers, Inc.**  
Sauk Centre, MN  
866-213-2948 • 320-352-5239 • Fax: 320-352-5230  
trailers@felling.com  
www.felling.com  
Ad on page 10

## Trailers - Transport

**Felling Trailers, Inc.**  
Sauk Centre, MN  
866-213-2948 • 320-352-5239 • Fax: 320-352-5230  
trailers@felling.com  
www.felling.com  
Ad on page 10

## Trenchless Pipe Replacement

**AP/M Permaform**  
Johnston, IA  
800-662-6465 • 515-276-9610 • Fax: 515-276-1274  
info@permaform.net  
www.permaform.net  
Ad on page 83

**Applied Felts, Inc.**  
Martinsville, VA  
276-656-1904  
info@appliedfelts.com  
appliedfelts.com  
Ad on page 35

**HammerHead Trenchless**  
Lake Mills, WI  
800-331-6653 • 920-648-4848  
www.hammerheadtrenchless.com  
Ad on page 79

**HydraTech Engineered Products**  
Cincinnati, OH  
513-827-9169 • Fax: 513-827-9171  
info@hydratechllc.com  
www.hydratechllc.com

**LMK Technologies**  
Ottawa, IL  
815-640-9302 • Fax: 815-433-0107  
info@lmktechnologies.com  
www.lmktechnologies.com  
Ad on page 127

**Miller Pipeline**  
Indianapolis, IN  
800-428-3742 • 317-293-0278 • Fax: 317-653-5200  
info@millerpipeline.com  
www.millerpipeline.com  
Ad on page 10

**PERMA-LINER  
INDUSTRIES, LLC**  
Perma-Liner Industries, LLC  
Clearwater, FL  
866-336-2568 • 727-507-9749 • Fax: 727-507-9849  
info@perma-liner.com  
www.perma-liner.com  
Ad on page 5

**Pow-R Mole Sales, LLC**  
Lancaster, NY  
800-344-6653  
www.powrmole.com

**Reline America, Inc.**  
Saltville, VA  
866-998-0808 • 276-496-4000  
info@relineamerica.com  
www.relineamerica.com  
Ad on page 101

**SAERTEX  
multiCom**  
SAERTEX multiCom LP  
Huntersville, NC  
704-946-9229 • Fax: 704-464-5922  
multicom@saertex.com  
www.saertex-multiCom.com  
Ad on page 34



**Spartan Tool**  
Mendota, IL  
800-435-3866  
sales@spartantool.com  
www.spartantool.com



**WL Plastics Corp.**  
Fort Worth, TX  
682-831-2700 • Fax: 682-831-2710  
wlsales@wlplastics.com  
www.wlplastics.com

## Trenchless Point/ Spot Repair

**CreTex Specialty Products**  
Waukesha, WI  
800-345-3764 • 262-542-8153 • Fax: 262-542-0301  
info@cretexseals.com  
www.cretexseals.com  
Ad on page 40

**HammerHead Trenchless**  
Lake Mills, WI  
800-331-6653 • 920-648-4848  
www.hammerheadtrenchless.com  
Ad on page 79

**HydraTech Engineered Products**  
Cincinnati, OH  
513-827-9169 • Fax: 513-827-9171  
info@hydratechllc.com  
www.hydratechllc.com

**Infrastructure Repair Systems, Inc.**  
St. Petersburg, FL  
877-327-4216 • Fax: 877-327-4118  
irsi@irsi.net  
www.irsi.net

**Linabond, Inc.**  
Camarillo, CA  
805-484-7373  
info@linabond.com  
www.linabond.com

**LMK Technologies**  
Ottawa, IL  
815-640-9302 • Fax: 815-433-0107  
info@lmktechnologies.com  
www.lmktechnologies.com  
Ad on page 127

**Neopoxy International, Inc.**  
Hayward, CA  
510-782-1290 • Fax: 510-782-1292  
epoxy@neopoxy.us  
www.neopoxy.us  
Ad on page 133



**Perma-Liner Industries, LLC**  
Clearwater, FL  
866-336-2568 • 727-507-9749 • Fax: 727-507-9849  
info@perma-liner.com  
www.perma-liner.com  
Ad on page 5



**Pipeline Renewal Technologies**  
Randolph, NJ  
866-936-8476 • 973-252-6700 • Fax: 973-252-1176  
mail@pipelinert.com  
www.pipelinert.com  
Ad on page 33

**RauschUSA**  
Chambersburg, PA  
877-728-7241 • 717-709-1005 • Fax: 717-709-1009  
sales@rauschusa.com  
www.rauschusa.com  
Ad on page 71

## Truck Parts/ Accessories

**Aarcomm Systems Inc.**  
Coquitlam, BC  
Canada  
800-604-9218  
sales@aarcomm.com  
www.aarcomm.com

**Cleral USA On Board Scales**  
Lodi, CA  
866-901-7372 • 209-224-7270  
www.cleral-usa.com  
Ad on page 130

**Fleet Complete**  
Toronto, ON Canada  
800-220-0779 • 905-944-0863  
marketing@fleetcomplete.com  
www.fleetcomplete.com  
Ad on page 133

**HIPPO Multipower**  
Riverside, MO  
800-844-0624 • 816-474-4643  
hippo@hippomultipower.com  
www.hippomultipower.com  
Ad on page 25

**Super Products LLC**  
New Berlin, WI  
800-837-9711 • 262-784-7100  
info@superproductsllc.com  
www.superproductsllc.com  
Ad on page 73

## Underground Piercing Tools

**HammerHead Trenchless**  
Lake Mills, WI  
800-331-6653 • 920-648-4848  
www.hammerheadtrenchless.com  
Ad on page 79

**McLaughlin Underground**  
Greenville, SC  
864-277-5870  
mmole@mightymole.com  
www.mclaughlinunderground.com

**Pow-R Mole Sales, LLC**  
Lancaster, NY  
800-344-6653  
www.powmole.com

## Vacuum Tank Parts & Components

**Milwaukee Rubber Products, Inc.**  
Menomonee Falls, WI  
800-325-3730 • 262-781-7888 • Fax: 262-781-1742  
sales@milwaukeeerubber.com  
www.milwaukeeerubber.com  
Ad on page 131

## Vacuum Trucks - Water Recycling/Reuse



**GapVax, Inc.**  
Johnstown, PA  
888-442-7829 • 814-535-6766 • Fax: 814-539-3617  
inquiry@gapvax.com  
www.gapvax.com  
Ad on page 135

**Hastings Irrigation Pipe Co.**  
Hastings, NE  
800-759-8823 • 402-463-6633 • Fax: 402-463-4355  
www.hastingsirrigation.com



**Kaiser Premier LLC**  
Fort Morgan, CO  
970-542-1975  
sales@kaiserpremier.com  
www.kaiserpremier.com  
Ad on page 14

**McLaughlin Underground**  
Greenville, SC  
864-277-5870  
mmole@mightymole.com  
www.mclaughlinunderground.com



**Super Products LLC**  
New Berlin, WI  
800-837-9711 • 262-784-7100  
info@superproductslc.com  
www.superproductslc.com  
Ad on page 73

**Vac-Con, Inc.**  
Green Cove Springs, FL  
904-284-4200 • Fax: 904-284-3305  
vns@vac-con.com  
www.vac-con.com  
Ad on page 136

**Vac-Tron Equipment**  
Okahumpka, FL  
352-728-2222  
sales@vactron.com  
www.vactron.com

**Vacall**  
New Philadelphia, OH  
800-382-8302 • Fax: 330-339-8468  
mtnorman@gradall.com  
www.vacall.com  
Ad on page 55

**Vector Manufacturing**  
Streator, IL  
800-627-3171 • 815-672-3171  
sales@vactor.com  
www.vactor.com  
Ad on page 3

## Vacuum Trucks/Trailers - Incl., Wet/Dry, Non-Haz.

**3T Equipment Co. Inc.**  
Santa Rosa, CA  
707-543-8555 • Fax: 707-543-8558  
tk3tequip@aol.com  
www.3tequipco.com  
Ad on page 123

**Cusco**  
Richmond Hill, ON  
Canada  
800-490-3541 • 905-883-1214 • Fax: 905-883-1778  
sales@wastequip.com  
www.wastequip-cusco.com  
Ad on page 23

**Elastec**  
Carmi, IL  
618-382-2525 • Fax: 618-382-3610  
elastec@elastec.com  
www.elastec.com  
Ad on page 85

**Felling Trailers, Inc.**  
Sauk Centre, MN  
866-213-2948 • 320-352-5239 • Fax: 320-352-5230  
trailers@felling.com  
www.felling.com  
Ad on page 10



**GapVax, Inc.**  
Johnstown, PA  
888-442-7829 • 814-535-6766 • Fax: 814-539-3617  
inquiry@gapvax.com  
www.gapvax.com  
Ad on page 135

**Jack Doheny Companies**  
Northville, MI  
800-336-4369  
info@dohenycompanies.com  
www.dohenycompanies.com



**McLaughlin Underground**  
Greenville, SC  
864-277-5870  
mmole@mightymole.com  
www.mclaughlinunderground.com

**MTech**  
Cleveland, OH  
800-362-0240 • 440-646-0996 • Fax: 440-646-9953  
sales@mttechcompany.com  
www.mttechcompany.com  
Ad on page 130

**Sewer Equipment**  
Dixon, IL  
888-477-7611 • Fax: 815-284-0453  
sales@sewerequipment.com  
www.sewerequipment.com  
Ad on page 13



**Super Products LLC**  
New Berlin, WI  
800-837-9711 • 262-784-7100  
info@superproductslc.com  
www.superproductslc.com  
Ad on page 73



**Vac-Con, Inc.**  
Green Cove Springs, FL  
904-284-4200 • Fax: 904-284-3305  
vns@vac-con.com  
www.vac-con.com  
Ad on page 136

**Vac-Tron Equipment**  
Okahumpka, FL  
352-728-2222  
sales@vactron.com  
www.vactron.com

**Vacall**  
New Philadelphia, OH  
800-382-8302 • Fax: 330-339-8468  
mtnorman@gradall.com  
www.vacall.com  
Ad on page 55

**Vacuum Sales, Inc.**  
Lindenwold, NJ  
800-547-7790 • 856-627-7790 • Fax: 856-627-3044  
sales@vacuumsalesinc.com  
www.vacuumsalesinc.com

## Vacuum Trucks/Trailers - Septic

**Elastec**  
Carmi, IL  
618-382-2525 • Fax: 618-382-3610  
elastec@elastec.com  
www.elastec.com  
Ad on page 85

**FlowMark Vacuum Trucks**  
Kansas City, KS  
855-653-8100 • 913-653-8103 • Fax: 855-653-8101  
sales@flowmark.com  
www.flowmark.com  
Ad on page 105

**Super Products LLC**  
New Berlin, WI  
800-837-9711 • 262-784-7100  
info@superproductslc.com  
www.superproductslc.com  
Ad on page 73

**Vacall**  
New Philadelphia, OH  
800-382-8302 • Fax: 330-339-8468  
mtnorman@gradall.com  
www.vacall.com  
Ad on page 55

**Vacuum Sales, Inc.**  
Lindenwold, NJ  
800-547-7790 • 856-627-7790 • Fax: 856-627-3044  
sales@vacuumsalesinc.com  
www.vacuumsalesinc.com



## WASTECORP. Pumps®

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

## Vacuum Trucks/Trailers - Wet/Dry Hazardous



**Cusco**  
Richmond Hill, ON  
Canada  
800-490-3541 • 905-883-1214 • Fax: 905-883-1778  
sales@wastequip.com  
www.wastequip-cusco.com  
Ad on page 23

**Elastec**  
Carmi, IL  
618-382-2525 • Fax: 618-382-3610  
elastec@elastec.com  
www.elastec.com  
Ad on page 85

**FlowMark Vacuum Trucks**  
Kansas City, KS  
855-653-8100 • 913-653-8103 • Fax: 855-653-8101  
sales@flowmark.com  
www.flowmark.com  
Ad on page 105

**Hastings Irrigation Pipe Co.**  
Hastings, NE  
800-759-8823 • 402-463-6633 • Fax: 402-463-4355  
www.hastingsirrigation.com

**Jack Doheny Companies**  
Northville, MI  
800-336-4369  
info@dohenycompanies.com  
www.dohenycompanies.com

## **Super Products** TRUCK MOUNTED VACUUM EQUIPMENT

**Super Products LLC**  
New Berlin, WI  
800-837-9711 • 262-784-7100  
info@superproductsllc.com  
www.superproductsllc.com  
**Ad on page 73**

**Vacuum Sales, Inc.**  
Lindenwold, NJ  
800-547-7790 • 856-627-7790 • Fax: 856-627-3044  
sales@vacuumsalesinc.com  
www.vacuumsalesinc.com

**Vaughan Company, Inc.**  
Montesano, WA  
888-249-2467 • 360-249-4042 • Fax: 360-249-6155  
info@chopperpumps.com  
www.chopperpumps.com  
**Ad on page 37**

## Valve Boxes/ Components

**American Highway Products Ltd.**  
Bolivar, OH  
888-272-2397 • 330-874-3270 • Fax: 330-874-3800  
sales@ahp1.com  
www.ahp1.com  
**Ad on page 95**

**Mr. Manhole**  
Delphos, OH  
419-741-9075 • Fax: 419-692-1600  
sales@mrmanhole.com  
www.mrmanhole.com

**Mueller Water Products**  
Atlanta, GA  
800-423-1323 • 770-206-4200  
moreinfo@muellercompany.com  
www.muellerwaterproducts.com

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

## Valve Exercising Equipment

**3T Equipment Co. Inc.**  
Santa Rosa, CA  
707-543-8555 • Fax: 707-543-8558  
tk3tequip@aol.com  
www.3tequipco.com  
**Ad on page 123**

**Hurco Technologies, Inc.**  
Harrisburg, SD  
800-888-1436 • 605-743-2466  
info@hurcotech.com  
www.hurcotech.com  
**Ad on page 24**

**Reed Manufacturing**  
Erie, PA  
800-666-3691 • 814-452-3691 • Fax: 814-455-1697  
reedsales@reedmfgco.com  
www.reedmfgco.com  
**Ad on page 97**

**Vac-Tron Equipment**  
Okahumpka, FL  
352-728-2222  
sales@vactron.com  
www.vactron.com

## Valve Insertion/ Removal Tools

**Hydra-Stop LLC**  
Burr Ridge, IL  
800-538-7867 • 708-389-5111 • Fax: 708-389-5125  
hydra-stopsales@hydra-stop.com  
www.hydra-stop.com

**Mr. Manhole**  
Delphos, OH  
419-741-9075 • Fax: 419-692-1600  
sales@mrmanhole.com  
www.mrmanhole.com

**Reed Manufacturing**  
Erie, PA  
800-666-3691 • 814-452-3691 • Fax: 814-455-1697  
reedsales@reedmfgco.com  
www.reedmfgco.com  
**Ad on page 97**



**Specialty Maintenance Products**  
Houston, TX  
713-667-4402 • Fax: 713-669-8618  
sales@smptools.com  
www.smptools.com  
**Ad on page 81**

## Valves

**Dallas Specialty & Mfg. Co.**  
Grand Prairie, TX  
800-222-5644 • 972-641-8444 • Fax: 972-641-8488  
mike@dalspc.com  
www.dallaspecialty.com

**Dultmeier Sales**  
Omaha, NE  
800-228-9666 • 402-333-1444 • Fax: 402-333-5546  
dultmeier@dultmeier.com  
www.dultmeier.com

**Giant Industries**  
Toledo, OH  
800-633-4565 • 419-531-4600 • Fax: 419-531-6836  
sales@giantpumps.com  
www.giantpumps.com

**IPEX USA LLC**  
Oakville, ON  
Canada  
800-463-9572 • 289-881-0120 • Fax: 905-403-1124  
marketing@ipexna.com  
www.ipexna.com  
**Ad on page 41**

**JAECO Fluid Systems**  
Malvern, PA  
610-407-7207 • Fax: 610-240-4906  
dszwak@jaecofs.com  
www.jaecofs.com  
**Ad on page 39w**

**Mueller Water Products**  
Atlanta, GA  
800-423-1323 • 770-206-4200  
moreinfo@muellercompany.com  
www.muellerwaterproducts.com

**Singer**  
Surrey, BC  
Canada  
888-764-7858 • 604-594-5404 • Fax: 604-594-8845  
singer@singervolve.com  
www.singervolve.com  
**Ad on page 24**

**Southern Valve & Fittings USA, Inc.**  
Kenansville, FL  
888-877-6825 • 305-757-8455 • Fax: 305-758-8711  
sales@soval.com  
www.soval.com  
**Ad on page 133**

**Suttner America Company**  
Dubuque, IA  
800-831-0660  
sales@suttner.com  
www.suttner.com

**Tech Products, Inc.**  
Staten Island, NY  
800-221-1311 • 718-442-4900 • Fax: 718-442-2124  
info@techproducts.com  
www.techproducts.com

**Vacuum Sales, Inc.**  
Lindenwold, NJ  
800-547-7790 • 856-627-7790 • Fax: 856-627-3044  
sales@vacuumsalesinc.com  
www.vacuumsalesinc.com

## Vent Pipe Filters

**Simple Solutions Distributing**  
West Milford, NJ  
800-667-8465 • 973-846-7817 • Fax: 973-858-0219  
sales@industrialodorcontrol.com  
www.industrialodorcontrol.com  
**Ad on page 132**

## Video Inspection Cameras



**Vivax-Metrotech Corp.**  
Santa Clara, CA  
800-446-3392 • 408-734-1400  
info@vxmt.com  
www.vivax-metrotech.com  
**Ad on page 20**

## Waterblasting Equipment

**Giant Industries**  
Toledo, OH  
800-633-4565 • 419-531-4600 • Fax: 419-531-6836  
sales@giantpumps.com  
www.giantpumps.com

**Hot Jet USA**  
Riverton, UT  
800-624-8186 • 801-545-0777  
sales@hotjetusa.com  
www.hotjetusa.com  
**Ad on page 131**

**KEG Technologies, Inc.**  
Spartanburg, SC  
866-595-0515 • 864-804-6637  
sales@kegtechnologies.net  
www.kegtechnologies.net

**Milwaukee Rubber Products, Inc.**  
Menomonee Falls, WI  
800-325-3730 • 262-781-7888 • Fax: 262-781-1742  
sales@milwaukeeerubber.com  
www.milwaukeeerubber.com  
**Ad on page 131**

**NLB Corporation**  
Wixom, MI  
248-624-5555  
nlbmtg@nlbusa.com  
www.nlbcorp.com

**NozzTeq Inc.**  
Clearwater, FL  
866-620-5915 • 727-223-4979 • Fax: 603-413-6744  
info@nozzteq.com  
www.nozzteq.com  
**Ad on page 107**

**Sonetics**  
Portland, OR  
800-833-4558 • 503-684-7080 • Fax: 503-620-2943  
sales@soneticscorp.com  
www.soneticscorp.com  
**Ad on page 75**

**SubSurface Instruments, Inc.**  
De Pere, WI  
855-422-6346 • 920-347-1788 • Fax: 920-347-1791  
paul.renard@ssilocators.com  
www.ssilocators.com  
**Ad on page 131**

**Suttner America Company**  
Dubuque, IA  
800-831-0660  
sales@suttner.com  
www.suttner.com

## Welders

**HIPPO Multipower**  
Riverside, MO  
800-844-0624 • 816-474-4643  
hippo@hippomultipower.com  
www.hippomultipower.com  
**Ad on page 25**

**Vanair**  
Michigan City, IN  
800-526-8817 • 219-879-5100 • Fax: 219-879-5800  
marketing@vanair.com  
www.vanair.com  
**Ad on page 45**



# NEW TO THE MIX OF OUR SUBMERSIBLE WASTEWATER HANDLING SOLUTIONS

## NEW SF SERIES® SUBMERSIBLE PUMP MODELS FEATURE:

- 4" and 6" sizes equipped with 3" solids-handling, single vane impeller technology
- NEMA Premium Efficiency motors
- 8-sided motor housing designed for optimal heat dissipation and superior motor cooling
- Heads up to 110', flows up to 1580 gpm and horsepowers from 15 - 30
- Industry-leading five-year warranty
- The same quality you've grown to expect from Gorman-Rupp

RELIASOURCE®



## THE RELIASOURCE® ASVP LIFT STATION INCLUDING NEW SF SERIES PUMPS OFFERS THE COMPLETE SEWAGE-HANDLING PACKAGE.

The ReliaSource® Above-Ground Submersible Valve Package (ASVP) is the perfect solution for your wastewater-handling needs. Each station offers powerful below-ground pumping and features the safety and convenience of above-ground controls and valves. Packages are now available with stock or custom vinyl graphics to match the surrounding environment.

**With SF Series® and ReliaSource®, you get long-lasting, trouble-free pumping performance you can count on. Guaranteed.**

**GORMAN-RUPP  
PUMPS**

*The Pump People®*

577 © 2018 The Gorman-Rupp Company.

Visit Gorman-Rupp at WEFTEC  
Booth #3429  
October 1 - 3, 2018 • New Orleans, LA

# SECURE YOUR SITE

Planning is key to protecting pedestrians in and around your job sites

By *Jared Raney*

**S**ome jobs may seem too small to sweat over the idea of public safety. There are a hundred little things on a job site that can potentially endanger the public; that's why having a foolproof plan for every single job, big or small, is more than good practice.

As Richard Crow, regional manager with Murphy Pipeline Contractors, says: "It doesn't matter how much money we make, or how big the project is. If somebody gets hurt, that job is a complete failure. We lost."

Possibly the most vulnerable members of the public around job sites are pedestrians.

## The basics

Dealing with safety means dealing with hoses and cables, walking routes, and potholes, among other challenges and obstacles.

"If an access pit is left overnight, the site has to be secured with construction fencing and a temporary cover," Crow says.

There are many options for temporarily covering pits. A spare piece of plywood doesn't necessarily do the trick; to reduce risk and liability, contractors should consider a specialized device, such as the raised plastic pothole covers available on the market.

When working with hose or cable, sometimes access is an issue, and often contractors must cross lanes of pedestrian traffic.

"We use ramps for our lines, made for pedestrian and traffic bearing," Crow says.

Other jobs may require more elaborate solutions. When Ecotech Hydro Excavation was vacuum excavating debris from a hospital basement, the crew parked its GapVax truck across the street and stretched the boom over the road. Scaffolding carried the hose over a sidewalk to protect pedestrians walking beneath.

Depending on the service, having the appropriate number of people on site is also important. Use spotters when necessary to ensure that bystanders aren't getting too close.

"A lot of times you'll get the wanderers that come up and they just want to know what you guys are doing," says Anthony Chavez, safety compliance officer for Davids Hydro Vac. "If you don't have that extra guy, they may go into an area that you've already excavated or they may not pay attention to the caution tape or the cones that you have set up."

The last essential is insurance: You always hope nothing bad happens, but if it does, it's important to be covered. As Crow says, "We have coverage in case something happens — lightning does strike."

## Making the plan

"We are out here providing a service, and generally there are some  
*(continued)*

Protecting the public around job sites is critical. Barricades are important to keep pedestrians and motorists away from construction hazards. Safely routing hoses and cables is another important step in securing a job site.





# Stay Ahead of the Wireless Platform Evolution

Wireless communication technology is changing at a pace faster than ever before. As municipalities race to leverage the Industrial Internet-of-Things (IIoT), robust and reliable communications become critically important to their success. The wireless communication providers see this need, and have started moving their networks to newer, more up-to-date platforms to prepare for the expected exponential growth of IIoT devices.

**ADS Environmental Services®** is the first and only wastewater flow, level, and rainfall monitoring provider to obtain certification on the Verizon Wireless LTE-M (LTE Cat M1) IIoT wireless network, helping you stay connected to and ahead of the wireless evolution.

## ADS monitoring systems using LTE-M networks offers you wireless communication improvements including...

Improved signal strength at most sites



Better signal penetration into underground structures like sewer manholes



Improved communication reliability with more frequent data windows



Built with the future in mind to handle ongoing enhancements by Verizon



Find your **Trusted Solution**



Booth **#4317**



**Solutions You Can Trust**

**If You Purchased Liquid Aluminum Sulfate  
From January 1, 1997 Through February 28, 2011,  
You Could Be Affected By A Proposed Class Action Settlement**

*Please read this entire Notice carefully.  
Partial settlements of the lawsuit may affect your rights.*

A partial settlement in a lawsuit pending in the United States District Court for the District of New Jersey (“the Court”) against the following Defendants, General Chemical Corporation; General Chemical Performance Products, LLC; General Chemical LLC, GenTek Inc., Chemtrade Logistics Income Fund; Chemtrade Logistics Inc., Chemtrade Chemicals Corporation; and Chemtrade Chemicals US, LLC.; Chemtrade Solutions, LLC; C&S Chemicals, Inc., USALCO, LLC, Kemira Chemicals, Inc., Southern Ionics, Inc., GEO Specialty Chemicals, Inc., Frank A. Reichl, Vincent J. Opalewski, Alex Avraamides, Amita Gupta, Milton Sundbeck, Kenneth A. Ghazey, Brian C. Steppig, American Securities LLC, Matthew Lebaron, and Scott Wolff. Plaintiffs in the lawsuit claim that Defendants hurt competition and violated state antitrust, consumer protection, and other laws by allocating customers and markets and fixing the price of Liquid Aluminum Sulfate (“Alum”), thereby causing indirect purchasers to pay too much for Alum. Defendants deny any wrongdoing.

A Settlement has been reached with Defendant GEO Specialty Chemicals Inc. (“GEO”), Kenneth A. Ghazey (“Ghazey”) and Brian C. Steppig (the “GEO Settling Parties”). The lawsuit will continue against the other Defendants (collectively, “Non-Settling Defendants”).

**WHO IS INCLUDED IN THE CLASS?** The Indirect Purchaser Settlement Class consists of all persons or entities in AL, AR, AZ, CA, CO, DC, FL, HI, IL, IA, KS, ME, MA, MI, MN, MS, NE, NV, NH, NM, NY, NC, ND, OR, PR, RI, SC, SD, TN, UT, VT, WV, and WI that purchased liquid aluminum sulfate, not for resale, which was manufactured, produced or supplied by Defendants or their unnamed co-conspirators from January 1, 1997 through February 28, 2011. Excluded from the Class are Defendants, co-conspirators and their respective parents, subsidiaries, and affiliates.

**WHAT DOES THE SETTLEMENT PROVIDE?** GEO and the Settling Parties agreed to pay into an Escrow Account the sum of up to \$4,375,000 (the “Settlement Funds”) as follows. GEO shall use its best efforts to cause its insurers to pay \$801,074 directly into the Indirect Purchaser Escrow Account within thirty (30) days of Final Judgment. GEO shall also pay \$898,926 into the Indirect Purchaser Escrow Account (collectively, the “First Installment”). GEO shall make one additional payment of \$1,675,000 that shall be paid into the Indirect Purchaser Escrow Account on or before the first anniversary of the First Installment. GEO will undertake a marketing process for a sale of all or substantially all of its equity interests, a merger of GEO and another entity, or a sale of all or substantially all of its assets (collectively, a “Sale”) that will commence no later than thirty (30) days after entry of Final Judgment. If this marketing process is successful, upon the closing of the Sale, the Indirect Purchaser Settlement Class shall be entitled to receive from GEO additional compensation pursuant to an equity value formula up to \$1,000,000.

At this time, Interim IPP Lead Counsel are not seeking attorneys’ fees in connection with this Settlement. Interim IPP Lead Counsel intends to ask for reimbursement of certain of their out of pocket expenses incurred so far in this litigation, including expert witness expenses incurred to date, as well as service awards for the class representatives of up to \$25,000.00 each from the Settlement Fund in recognition of their efforts to date on behalf of the Class. At a later date, Interim IPP Lead Counsel may seek up to one-third of the aggregate of funds achieved for the Class, and from any future recovery that may occur in this Class Action against the Non-Settling Defendants.

**HOW DO I RECEIVE A PAYMENT FROM THE SETTLEMENT?** No money will be distributed yet. The Interim IPP Lead Counsel will continue to pursue the lawsuit against the Non-Settling Defendants. All Settlement Funds that remain after payment of the Court-ordered attorneys’ fees, incentive awards, costs, and expenses will be distributed at the conclusion of the lawsuit or as ordered by the Court.

You may visit the website [www.LiquidAluminumSulfate.com](http://www.LiquidAluminumSulfate.com) for updates on the status of the lawsuit.

**WHAT ARE YOUR OPTIONS?** If you wish to remain an Indirect Purchaser Settlement Class Member, you need not take any action at this time. You will give up your right to sue the GEO Settling Parties for the claims that the Settlement with them will resolve. If you want to keep the right to sue or continue to sue the GEO Settling Parties about the legal issues in this case, then you must exclude yourself from the Class. **If you exclude yourself from the Indirect Purchaser Settlement Class, you will not get any payment from the Settlement.** To exclude yourself, you must send a letter to the Settlement Administrator, **postmarked no later than October 2, 2018.** You may also comment on or object to the proposed Settlement. Your objections must be **filed no later than October 2, 2018.** Details on how to request exclusion, comment, or object to the Settlement are available on the Settlement website, [www.LiquidAluminumSulfate.com](http://www.LiquidAluminumSulfate.com).

**WHO REPRESENTS ME?** The Court appointed Jay B. Shapiro of Stearns Weaver Miller Weissler Alhadeff & Sitterson, P.A. and Marvin A. Miller of Miller Law LLC as Interim IPP Lead Counsel to represent the Indirect Purchaser Settlement Class on an interim basis and for purposes of the Settlement. If you want to be represented by your own lawyer, you may hire one at your own expense.

The Court will hold a final fairness hearing to decide whether to approve the terms of the Settlement at **10:00 a.m. on November 14, 2018**, at the Martin Luther King, Jr. Building & U.S. Courthouse, 50 Walnut Street, Newark, New Jersey 07101. If there are objections, the Court will consider them but may still approve the Settlement. You may appear at the hearing, but you are not required to do so. The hearing may be rescheduled without notice to the Class, so if you plan to attend, please periodically check the Settlement website for any updates.

**This notice is only a summary. For more information,  
please visit the Settlement website, [www.LiquidAluminumSulfate.com](http://www.LiquidAluminumSulfate.com)  
or call 1-866-217-4455.**

**“I think it’s crucial for all parties to have a review  
process when you’re submitting something  
for pedestrian or community safety.”**

**Richard Crow**

specs or guidelines in providing pedestrian safety or vehicle safety,” Crow says. “I think it’s crucial for all parties to have a review process when you’re submitting something for pedestrian or community safety.

“Understand what the construction crews are going to do during the day: what access they need, to and from the site,” he says. “A lot of times people are worried about the site itself, but you have dump trucks and other large deliveries coming through the site every day. And how are they going to off-load? How are they going to pick up?”

The first step when approaching a job plan is to survey the job site. Murphy Pipeline Contractors’ supervisors start with a drive-thru, followed by an aerial survey via Google Earth. They use that aerial map to analyze routes and traffic, then sketch out necessities for that particular job.

“After we kind of agree on the plan, then we’ll formalize it, and apply some industry-standard traffic control or pedestrian safety,” Crow says. “It could be not just traffic — it could be sidewalk. How are you going to detour people around sidewalks? How are they going to access it?”

The plan is submitted to necessary authorities such as the municipality, county, or state Department of Transportation and reviewed by the client. After approval, the plan is distributed to site superintendents and foremen to be implemented on a daily basis.

“Basically, we’ll have to submit something, base it on Florida DOT index standards or county standards; and generally speaking, it could be site-specific — not related on a specific standard — but just a plan you’ll have to create and submit to the client or client’s representatives for approval,” Crow says.

**Getting the word out**

“Messaging is really important. It’s easy to put up a few cones and some detours around, but if you don’t notify the public in advance, it just causes confusion. So properly notifying them way in advance of any obstructions, detours or obstacles that they might come upon is really good.”

Crow knows firsthand the danger of this topic: Before working at Murphy Pipelines Contractors, he was the client on a job where the contractor picked up some signage before the site was clear. As a result, a woman rear-ended a dump truck and was killed in the accident.

“That contractor made an error by picking up his traffic control plan too early and was still having issues out there within the clear zone that could impact traffic. And unfortunately it did; she lost her life.”

**Conclusion**

Often, in construction, all you can do is roll with the punches. But having a solid safety plan and understanding of the site before work begins allows you to make those on-the-fly changes with confidence.

“Generally when the job starts, things change. It’s just construction; it’s the nature of the beast,” Crow says. “We consider the safety plan a working document, so we continually review throughout the progress meetings.

“This gets lost amongst a lot of contractors, engineers, and even clients: No job is too small, or too big. It should be the same thorough process. I think once a party assumes that a job is too small, that’s when issues are going to come up,” he says. “You just don’t want to miss anything when it comes to safety.” ♦



## The Wilo Way: Reliable technology you can trust.



Wilo-FA submersible wastewater pumps have a reputation in the industry as the toughest, most durable option for sewage disposal and treatment due to the engineering inside the pump. Features include the largest diameter shafts with the lowest overhangs in the industry, a stainless steel enclosed block seal and a highly efficient closed-loop cooling system with heat exchanger.

The optimal engineering isn't limited to the mechanical components. Our proprietary 2-part Ceram® coating is a solvent-free, polymer material with corrosion-resistant aluminum oxide. Thanks to its increased resilience to abrasion and weathering, it effectively prevents mechanical and chemical wear for long-lasting protection. Ceram® can also be used on volutes and impellers. That's what we call Pioneering for You.

888-945-6872 | [www.wilo-usa.com](http://www.wilo-usa.com)



Pioneering for You



Wilo-FA



Solid Impeller

**wilo**®

## NEW TECHNOLOGY SLATED FOR WEFTEC 2018

By Craig Mandli

**W**EFTEC, 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, slated for Sept. 29 to Oct. 3 in New Orleans, 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.

### ABB Drives & Controls ACQ580

The **ACQ580** variable-frequency drive from **ABB Drives & Controls** can help enhance pump performance, simplify operation and improve flow in pumping and aeration applications. Its software, intuitive keypad and menu-driven programming simplify the operation of even the most complex applications. The keypad's optional Bluetooth capability provides flexibility and an extra level of safety for commissioning and troubleshooting. The product range includes 1 to 700 hp and 480 volts, to be followed by 100 hp 240-volt, and 300 hp 600-volt units. They are available in enclosure classes UL Type 1 and 12. **800-752-0696; www.abb.com/drives; Booth 2229.**



### AdEdge Water Technologies ADIN CO2

The **ADIN CO2** injection system from **AdEdge Water Technologies** is an alternative to other methods of alkalinity control and pH reduction. It's ideal for the reduction of alkalinity prior to primary treatment components for optimizing contaminant removal. The system uses carbon dioxide gas, which when released in water, forms carbonic acid — a weak acid that immediately reacts with alkalis to reduce pH. With the use of the included monitoring equipment and injector, the control panel can be used in several different configurations to reduce pH. The automatic systems use a pH probe downstream of the system to regulate the amount of carbon dioxide being injected into the water. **866-823-3343; www.adedgetech.com; Booth 1458.**



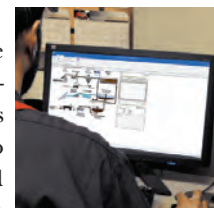
### Aerzen Turbo G5 Plus

The **Aerzen Turbo G5 Plus** is the most compact and efficient turbo in its class. It offers Aerzen airfoil bearings with double coating and multilevel frequency converter technology, which reduces the heat loss in the motor to a minimum and, consequently, improves the total efficiency significantly. **610-380-0244; www.aerzen.com/en-us; Booth 817.**



### AllMax Software

**AllMax Software** combines software and service offerings to provide operations and maintenance solutions that make data management and reporting tasks easier and less time-consuming. Operator10 and Antero have been developed according to client requests and the requirements of the industry. A comprehensive offering of technical services are offered in support of the software. Setup, data conversions, and training are available, as well as custom report development. Annual technical support contracts offer users the ability to get help with troubleshooting and usage questions. Technical specialists are trained in water and wastewater concepts. **800-670-1867; www.allmaxsoftware.com; Booth 3947.**



### 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 provides for wireless networks of up to 16 sensors, reducing the per-tank price. In addition, the ability to remotely monitor the system via cellular modem ensures support for even the most challenging processes. **800-959-0299; www.analyticaltechnology.com; Booth 7439.**



### AP/M Permaform CentriPipe

**CentriPipe** from **AP/M Permaform** can be versatile and cost-effective for 30-inch and larger corrugated metal pipes, reinforced concrete pipes, and brick pipes of all configurations, including round, arched, elliptical, and box. Its materials, equipment, and application ensure high-quality structural, trenchless rehabilitation of storm and sanitary sewer pipes. Trained, experienced applicators use the best equipment, including a bidirectional spin-caster and specially designed fine aggregate concrete to ensure long-lasting, high-quality rehabilitation results. **800-662-6465; www.permaform.net; Booth 6539.**



### Applied Felts AquaCure RP

**AquaCure RP** from **Applied Felts** combines fiberglass reinforcement with traditional felt to minimize wall thickness and maximize flow capacity in gravity sewers. AquaCure PS is specially designed for pressure sewer pipes and other nonpotable water applications. AquaCure PW is suited for potable water applications, designed to incorporate quality liners with an NSF-certified system. **276-656-1904; appliedfelts.com; Booth 4551.**



### Aqua-Aerobic Systems AquaNereda

The **AquaNereda** aerobic granular sludge system from **Aqua-Aerobic Systems** replicates the same effluent quality as a well-designed enhanced biological nutrient removal facility but without the use of chemicals. The technology, owned by Royal HaskoningDHV, dramatically reduces the footprint and energy requirements to provide a competitive alternative for high-performance plants. A full-scale system at the Rock River Water Reclamation District in Rockford, Illinois, demonstrates the technology and is a part of the company's technical seminar program. The facility will help accelerate the implementation of aerobic granular sludge technology in North America. **815-654-2501; www.aquanereda.com; Booth 6625.**



### BDP Industries Rotary Drum Thickener

The **Rotary Drum Thickener** from **BDP Industries** effectively thickens various water, wastewater and industrial biosolids. With its compact design, trouble-free operation, low maintenance, and enclosure for odor control, it is an ideal option for many thickening applications. The company has manufactured the same fundamental design with an internally baffled, center shaft support since 1978. The design includes a sealed first compartment for increased flocculation time, and trunnion supports on the center shaft, keeping them away from the process fluid. **518-695-6851; www.bdpindustries.com; Booth 1016.**



### Blue-White Industries ProSeries-M M-3

**ProSeries-M M-3** peristaltic metering/dosing pumps from **Blue-White Industries** are built rugged to handle demanding municipal water and wastewater treatment operations. Feed rates range from 0.0002 to 33.3 gph with a pressure rating to 125 psi. They come with a brushless DC motor, built-in tube failure detection and easy access electronics. They are outfitted with Flex-A-Prene tubing for tube life of up to four times longer than conventional tubes, precise feed rates, and high chemical resistance. They are NSF Standard 61, ETL and CE listed, and NEMA 4X/IP66 rated. **714-893-8529; www.blue-white.com; Booth 3829.**



### Centrisys/CNP THK Series

The **Centrisys/CNP THK Series** sludge thickener is not a modified dewatering centrifuge. It is specifically designed for sludge thickening. By removing the conical section and increasing the cylindrical length, both changes increase G-volume and result in higher throughput. A hydraulic-solids baffle disc and air injection allow it to use little to no polymer under most conditions. Typically, it uses 0 to 2 pounds per dry ton of polymer for waste activated sludge, where an average modified centrifuge consumes approximately 10 to 12 pounds per dry ton of polymer. It also delivers 2 to 10 percent total solids with an energy usage as low as 0.05 kW per gpm, a quarter of the energy required for modified centrifuges. **262-654-6006; www.centrisys.com; Booth 4921.**



### CUES SPIDER

The **SPIDER** scanner from **CUES** is a wireless and color manhole inspection technology in a lightweight and compact form factor. The scanner can calculate its position in the manhole shaft by using its sensor data to measure its incremental motion instead of the payout cable. It weighs less than 30 pounds and can be hand carried to easements or other previously difficult-to-access sites. **800-327-7791; www.cuesinc.com; Booth 711.**



### Duke's Root Control Razorooter II

Diquat-based **Razorooter II** root-control herbicide from Duke's Root Control is registered by the U.S. EPA for controlling nuisance tree roots in sanitary sewer collections systems. It kills roots and eliminates mainline stoppages caused by live tree roots. **800-447-6687; www.dukes.com; Booth 4439.**



### EleMech Elevate4.0

**Elevate4.0** from **EleMech** is designed to retrieve and store critical information on the cloud, making it viewable on mobile devices or PCs. Data can be from points of interest like control panel temperature and humidity, to more advanced parameters such as operational characteristics of facility equipment. It offers a subscription-based interface, allowing facilities to monitor individual pieces of equipment or expand to include equipment across entire facilities or regions. Users will experience the convenience of having critical information delivered as text or email, letting them know what they need to know exactly when they need to know it. **630-499-7080; www.elemechinc.com; Booth 3953.**



### Enviro-Care SPECO CPS

The **SPECO CPS** conveying compactor from **Enviro-Care** can transport debris captured by screens and, in the process, achieve additional dryness, reducing the volume by 40 percent. The screened debris is conveyed through a transport tube by a shaftless spiral. The transport tube is lined with a perforated nonstick polymer that acts as a drainage screen. The outlet plug retention diaphragm is made from the same SINT polymer, but is available in various degrees of stiffness. **815-636-8306; www.enviro-care.com; Booth 5339.**



### Flowrox GeoBag

The **Flowrox GeoBag** can help reduce the costs related to waste handling while assisting with the filtration and dewatering process by providing a watertight floor construction with a drain valve. It consists of a high-performance Packaged Pumping System and LPP-T transfer pump to ensure accurate chemical dosing and high-performance pumping. It is compatible with any climate, and it can be insulated and heated for areas prone to colder temperatures. It is suitable for sewage sludge dewatering; tailings dewatering; concentration of oily sludge; filtration and dewatering of precipitated solids and impurities;



(continued)

and filtration and dewatering of clay, sand, and other fine particles. **410-636-2250; www.flowrox.com; Booth 2607.**

## Fluence SUBRE

When a conventional activated sludge wastewater treatment facility has reached its limit, the **SUBRE** submerged membrane aerated biofilm reactor from **Fluence** can be a solution. The system is used to retrofit existing aerobic wastewater treatment plants to increase capacity without enlarging a plant's footprint. It helps improve effluent quality to meet EPA standards for reuse and uses up to 90 percent less energy than alternatives, allowing plants to progress toward energy neutral treatment. **763-746-8400; www.fluencecorp.com; Booth 4415.**



## Franklin Electric FPS PowerSewer

The **FPS PowerSewer System** from **Franklin Electric** is a low-pressure sewer system available in 60-, 72-, 84- and 96-inch basin sizes that is compatible with the entire line of FPS 2 hp grinder pumps. The basin's internal C-channel assembly releases from the top of the unit, simplifying accessibility to and maintenance of its components. The updated tank design provides for easy access and replacement of all other internal components. The float tree is spring-loaded and easily removable, with a lift handle to simplify pump removal. **866-271-2859; www.franklinengineered.com; Booth 7927.**



## Gardner Denver CycloBlower H.E. Series

The **CycloBlower H.E.** from **Gardner Denver** offers airflows up to 6,200 cfm, pressures up to 36 psi, and vacuum up to 22 inches of mercury, making it ideal for a wide range of applications including wastewater treatment, dilute and dense-phase pneumatic conveying, cement, chemical processing, industrial processing, food processing, and plastic molding and mandling. It offers the flexibility to retrofit and upgrade existing packages. It offers an efficient 3-by-5 helical screw rotor profile, food-grade polytetrafluoroethylene-coated rotors, a split-cylinder design, and available discharge port designs that match the most efficient performance to application requirements, O-ring sealing, helical timing gears, and dual-splash lubrication with an eccentric slinger ring. **866-428-4890; www.gardnerdenver.com; Booth 7039.**



## Greyline Instruments TTFM 6.1

The **TTFM 6.1** transit-time flowmeter from **Greyline Instruments** includes powerful digital signal processing and advanced algorithms to provide easy and accurate flow measurement of clean and relatively clean fluids (water, oil, chemicals). It offers improved performance in a wider range of applications, operating conditions and pipe materials. The clamp-on technology is fast and easy to install. It monitors flow rate, volume total, run hours, and diagnostic information through only two wires with the optional MODBUS RTU serial communication option. **888-473-9546; www.greyline.com; Booth 5949.**



## Hach Claros Water Intelligence System

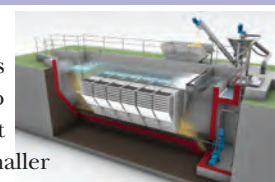
The **Claros Water Intelligence System** from **Hach** focuses on instrument,

data, and process management to help reduce uncertainty and increase operational confidence. Changing regulations, unpredictable influent levels and instrument downtime are all problems plant operators encounter. Without a clear picture of their water or data, operators face uncertainty about efficiency and compliance. Imagine the timesavings, cost reductions, and peace of mind that a complete water intelligence system could provide. **800-227-4224; www.hach.com/claros; Booth 3617.**



## HUBER Technology GritWolf

The **GritWolf** from **HUBER Technology** uses a two-chamber design and contact settling to reduce footprint and remove the finest of grit particles, as well as fats and grease. In the first smaller chamber, the wastewater is exposed to fine-bubble aeration where floatable particles accumulate and are removed by a paddle system. The second section uses crossflow contact settling, allowing it to remove up to 90 percent of the grit of grain size greater or equal to 75 µm. It offers high grit removal with a small footprint and at much reduced depths for ease of construction. **704-990-2053; www.huber-technology.com; Booth 4628.**



## Hydro International Hydro GritCleanse

The **Hydro GritCleanse** fluidized bed grit washing system from **Hydro International** significantly reduces volatile solids content and outputs cleaner and drier grit. It retains 95 percent of all grit 106 micron and larger. Reducing organic material in captured grit reduces volume, weight, water content and odors. It is backed by single-supplier system accountability using the company's Grit Management approach to grit system design. **866-615-8130; www.hydro-int.com; Booth 6339.**



## InfoSense Sewer Line Rapid Assessment Tool

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 can be thought of as the first step in a collections system maintenance process, providing a fast 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. It is portable, offers no-flow contact, is GPS-enabled, and is EPA-validated. **877-747-3245; www.infosense.com; Booth 1039.**



## International Products Micro-90

**Micro-90** from **International Products** can help restore 100 percent flux to UF, RO, ceramic and NF systems. It removes organics and metals that blind membranes while eliminating the need for caustic cleaners. It provides savings through reduced energy use, reduced chemical use and less downtime. Most plants achieve 100 percent recovery after every wash, thus extending the life of their membranes. It is a nonhazardous, water-based concentrate. **609-386-8770; www.ipcol.com; Booth 6652.**





### 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, assisting secondary treatment, and biosolids holding ponds. **973-366-6556; www.jdvequipment.com; Booth 4001.**



### Keller America LevelRat

The **LevelRat** from **Keller America** is built to provide reliable, low-maintenance service in wastewater level measurement applications. It offers 0.5 percent full scale total error band accuracy, dual outputs (one analog and one RS485 digital), and models equipped with a 4-20mA analog output include lightning protection. It is built to order in the U.S. with a lead time of three business days. **877-253-5537; www.kelleramerica.com; Booth 428.**



### Komline-Sanderson Biosolids Drying System

**Biosolids Drying Systems** from **Komline-Sanderson** are capable of handling in excess of 1,000 tons of wet cake per day. Excess heat from combustion engines or turbines can be used to heat thermal fluid or produce steam. The dryer's shaft, hollow paddles and trough are all heated. The robust design and low speed with minimal rotating parts result in reduced maintenance costs. Indirect drying using the airtight dryer results in minimal off-gas volume, which allows simplified odor control systems and safe operation resulting in reduced disposal costs for the beneficial reuse of biosolids as fertilizer and green fuel. **800-225-5457; www.komline.com; Booth 2429.**



### Lovibond Tintometer PTV Series Process Turbidimeter

By combining a state-of-the-art user interface with a robust design, **PTV Series Process Turbidimeters** from **Lovibond Tintometer** deliver accurate results without complexity. **941-756-6410; www.lovibond.com; Booth 8229.**



### Myron L 900 Series

The **900 Series** monitor/controller from **Myron L** combines flexibility, accuracy and reliability. Its 3.5-inch resistive touch screen and intuitive graphical user interface make it simple to use. Measurement capabilities include conductivity, resistivity, salinity, TDS, pH, ORP, temperature, mV, flow and percent rejection. It includes a 4-20mA input and a variety of outputs, including zero to 10-volt DC recorder output, relay output, alarm output and optional outputs for 4-20mA, RS-485, two additional relays, and one additional alarm output. **760-438-2021; www.myronl.com; Booth 3006.**



### Penn Valley Pump Double Disc Pump

The **Double Disc Pump** from **Penn Valley Pump** eliminates the friction wear associated with progressive cavity and rotary lobe pump styles. The pump can run dry without damage and incorporates a sealing trunnion that requires no maintenance, no seal water, no packing, and no lubrication and does not leak. The company offers a Swap Your Pump trial program that provides the opportunity to try the pump risk-free. **800-311-3311; www.pennvalleypump.com; Booth 929.**



### Praxair In-Situ Oxygenation System

**Praxair's In-Situ Oxygenation (I-SO) System** is a mechanical oxygenator that can dissolve as much as 82 percent of the high-purity oxygen into water. Aerating with the system in addition to using high-purity oxygen can increase biotreatment capacity, significantly lower VOC emissions, reduce foam formation, reduce electrical power usage and allow for greater variations in oxygen demand. **800-772-9247; www.praxair.com; Booth 3045.**



### RapidView IBAK North America MainLite

The **MainLite** from **RapidView IBAK North America** is a sleek, easy-to-use system that won't strain a technician's back. Available in many different configurations, the systems can be used in portable applications or mounted in a vehicle, providing power and flexibility in one compact package. **800-656-4225; www.rapidview.com; Booth 7539.**



### REXA

**REXA** is a custom-designed actuator that offers reliable control of any valve or gate service. It employs Electraulic technology, operating like an electric actuator that employs a hydraulic transmission without the use of an actively pressurized reservoir system. This technology eliminates the maintenance burdens, liability concerns and high costs of ownership common to other hydraulic systems. The result is a hydraulically driven actuator designed to modulate accurately and reliably over long periods of time without attention, reducing cost of ownership. **508-584-1199; www.rexa.com; Booth 6823.**



### SAF-T-FLO Chemical Injection SAF-T-Seal

The **SAF-T-Seal** elastomeric duckbill tip from **SAF-T-FLO Chemical Injection** can be a timesaver when added to injection quills dosing sodium hypochlorite or ammonia. These chemicals are prone to forming deposits, which eventually lead to a clogged injection quill. The tip can be added to any 3/8- or 1/2-inch injection quill to help reduce tip clogging, extending maintenance intervals. **800-957-2383; www.saftflo.com; Booth 5847.**



### Sealing Systems Flex-Seal Utility Sealant

**Flex-Seal Utility Sealant** from **Sealing Systems** is a plural component aromatic urethane with 800 percent elongation and a tensile strength of 3,200 *(continued)*



psi. It is designed to prevent inflow and infiltration and provide corrosion protection at the grade adjustment ring section or joint section. It provides an ideal seal and will pass a vacuum test according to ASTM standards. **800-478-2054; www.ssisealingsystems.com; Booth 3504.**

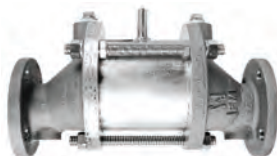
## SEEPLEX Smart Conveying Technology

**SEEPLEX** progressive cavity pumps equipped with Smart Conveying Technology to offer easy access to the specially engineered stator and rotor for quicker maintenance, shorter downtimes, more energy efficiency and overall lower life cycle costs. Repairs can be done by one person without special tools or the need to remove the pump from either suction or discharge piping. Pumps with the technology convey capacities up to 500 gpm and handle pressures up to 120 psi in a wide variety of wastewater applications. **937-864-7150; www.seepex.com; Booth 6939.**



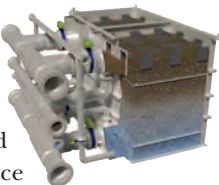
## Shand & Jurs Deflagration Flame Arrester

**Shand & Jurs** vertical and horizontal **Deflagration Flame Arresters** are designed to provide a positive flame stop in horizontal gas piping systems containing flammable vapors having a low flashpoint. The units not only provide protection against propagation of fire, but also offer maximum flow capacity. They are designed with taps to accommodate temperature-monitoring devices to activate a quick closing valve when a flame is detected. **708-236-6000; www.sandj.com; Booth 2608.**



## SUEZ FiltraFast

The **FiltraFast** extreme-rate compressible media filter from **SUEZ** is designed to achieve a very high hydraulic loading rate. It is customizable to meet specific requirements for industrial water filtration and tertiary wastewater treatment. Its backwash sequence enables maximum recovery of water, extends media life and limits energy consumption. This process reduces the footprint, maintenance and replacement costs. **866-439-2837; www.suezwatertechnologies.com; Booth 4017.**



## Sulzer Pumps Solutions HST

The **HST** turbocompressor from **Sulzer Pumps Solutions** has 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 an electronically controlled magnetic bearing technology, which levitates the integrated rotor/shaft/impeller single-piece assembly along the self-diagnostic 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 2515.**



## Superior Signal smoke generator

Smoke generators from **Superior Signal** locate sources of surface inflow resulting in wet-weather sanitary sewer overflows. It serves as a fast and easy way to find leaks and faults in collections systems, as smoke candles provide visible smoke to detect faults at longer distances in sizes to meet any need. Smoke candles, smoke blowers and smoke fluid systems are available. **800-945-8378; www.superiorsignal.com; Booth 2631.**



## Vac-Con Titan

The **Titan** dual-engine combination machine from **Vac-Con** offers the Aero-boost Q Drive that operates the vacuum and water functions while lowering noise emissions and substantially reducing overall fuel consumption. Enhanced twin cyclonic separators, one located on each side of the truck, optimize filtration and airflow. The Aero-boost three-stage fan balances airflow, resulting in less turbulence and more power. An upgraded water system features 1 1/4-inch plumbing and ball valves. It offers 44 percent fuel savings, a 43 percent decrease in vacuum system operating revolutions per minute, a 25 percent increase in airflow, 16 to 30 percent more horsepower, an 8 percent decrease in noise pollution and a 5 percent increase in overall vacuum pressure over previous models. **888-920-2945; www.vac-con.com; Booth 2036.**



## Vector 2100i with RDB 1015

The **Vector 2100i** combination sewer cleaner includes a 7-inch screen in the cab, with backlit tactile buttons and the IntuiTouch one-touch control system for quick startup and engagement. An optional RDB 1015 rapid-deployment boom telescopes 10 feet out and extends the debris hose down 15 feet, minimizing the need for additional debris tubes. The water-recycling model saves thousands of gallons of clean water every shift and offers absolute water filtration to 100-micron particle sizes, a five-stage filtration system, no moving parts in the body or tanks, and no need to enter the debris tank for cleaning or maintenance. **815-672-3171; www.vactor.com; Booth 1413.**



## Vaughan Portable Bypass Pump

Heavy-duty **Portable Bypass Pumps** from **Vaughan** can be used for tough solids-reduction applications or low-shear solids handling in temporary or permanent situations. These bypass trailers are available with a centrifugal chopper pump for tough solids reduction or Triton screw pump for more sensitive applications. Each pump is available on a trailer, skid mount, or as an open or enclosed, sound-attenuated platform and powered by either diesel, hydraulic, or electric drive motors. **360-249-4042; www.chopperpumps.com; Booth 1517.**



## VEGA Americas VEGAPULS WL 61

The **VEGAPULS WL 61** from **VEGA Americas** is a radar sensor designed for multiple water management needs. This radar is reliable, comes with mounting flexibility, and still works after being submersed. It continues to

perform with buildup, condensation, and all the other challenges wastewater treatment plants deal with on a daily basis. Visit the booth to see live demonstrations showcasing just how flexible the sensor is, including a weir demonstration common in CSOs. **800-367-5383; www.vega.com; Booth 7013.**



### Wilo-Flumen OPTI-TR

The **Wilo-Flumen OPTI-TR** series is a direct-drive submersible mixer series with 5.5- to 15.75-inch-diameter propellers optimized for efficiency and durability. The series features cast stainless steel propellers (200 to 1,300 N thrust range) with the same hydraulically efficient backswept profile as found on the company's medium-speed planetary gear-reduced mixer series. Each propeller blade has a hydrofoil profile that achieves thrust-power ratios according to ISO 21630. Propeller clogging is minimized through computational fluid dynamics-based design and extensive testing. A moisture-sensing electrode located in the seal chamber and auto-reset winding thermal sensors come standard. **888-945-6872; www.wilo-usa.com; Booth 2209.**



### YSI, a Xylem brand IQ Analyzers

**YSI, a Xylem brand,** is expanding its IQ Sensor-Net solution with the release of two new analyzers for wastewater monitoring and control – one measuring orthophosphate and the second for ammonium analysis. **IQ Analyzers** are available as single or dual channel and have a mixing valve that significantly reduces reagent consumption and maintenance requirements – lowering the overall cost of reliable data. **937-767-7241; www.ysi.com; Booth 5989.** ♦



**Sto-Away Power Cranes**  
 TAKE THE WORK, OUT OF WORK!<sup>SM</sup>  
 The faster, safer, and more efficient way to get the job done!

A VERSATILE TOOL FOR MUNICIPALITIES AND SEWER PROFESSIONALS

Ask for the STO-AWAY POWER CRANES on your next bid

- CCTV Launching/Retrieval
- Confined Space Work
- Bulky Loads

**Sto-Away Power Cranes, Inc.**  
 9306 Grand Blvd. • Crown Point, IN 46307  
 1.800.622.9797 • 219.942.9797 • www.stoaway.com

Compliments of Best Equipment & Muncie Sanitary District

Certified WBENC  
 Women's Business Enterprise

**PROWLER EASEMENT MACHINES**

The Prowler Easement Machine is available in extendable track, track, wheeled or track over wheel configurations. Reel available in capacities To 1,000 feet. Many options available. For more information contact:  
 3T Equipment Company Inc. **800-969-3001**  
 ttequip@yahoo.com, Web Site at www.3TEquipco.com

MUNICIPAL SEWER & WATER

Go to **MSWmag.com** to view these products.

Come see us at the Show. We love to hear from you.

GET EMAIL NEWS ALERTS FOR MUNICIPAL SEWER & WATER

Go to **mswmag.com/alerts** and get started today!

# Product Spotlight

## Compact vacuum manufacturer jumps into the municipal market

By Craig Mandli

After finding success in the oil spill response with their trailer-mounted compact vacuum system, Elastec has entered the municipal pumping and hydroexcavation arena with their new municipal PACS systems.

The trailer-mounted, 1,000-gallon vacuum system was originally built for removing oil, liquids, solids, and sludge from reclaim pits, catch basins, wastewater lagoons, tank cars, and oil sites. However, its compact size and light weight have led contractors to employ it in hard-to-reach areas, and now in difficult-to-access urban areas.

“We were getting customers who saw the power we could provide with our septic PACS units and asked us to design something for municipal use,” says Brian Cook, creative services manager for Elastec. “The municipal PACS units have a little more power than our first PACS units and have a boom on top to enable hydroexcavation.”

The PACS 920 is powered by a 74 hp Hatz 4H50 engine that provides 2,850 rpm and Tuthill 5009 blower offering 920 cfm at 15 inches Hg, while the larger PACS 2000 comes equipped with a 115.8 hp Kubota V3800 engine and Tuthill 6016 blower offering 2,035 cfm at 16 inches Hg. Both have a power washer designed for heavy-duty use at 5 gpm and 3,000 psi, with a 50-foot hose reel.



The trailer has wide tires to keep landscaping damage minimal and is equipped with safety equipment including surge brakes for highway or off-road towing. The unit is fitted with heavy-duty axles and suspension. Most models have integral hydraulics that allow the unit to run an oil skimmer, a transfer pump, and hydraulic tools and to lift the spoils tank to dump contents through the rear door. It is fitted with vacuum relief valves and cyclonic separator. A vacuum filter can also be added, as well as company branding.

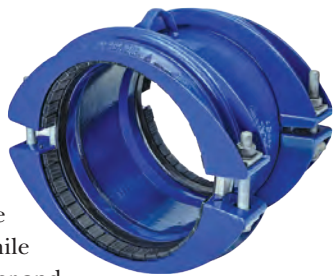
“It can be reconfigured in many ways to a customer’s exact specifications,” Cook says. “With all the options, we call it the ‘Swiss army knife’ of vacuum systems.”

Cook says that the ideal use of the municipal PACS is as an alternative in spaces too small for the large vacuum and hydroexcavation trucks many municipalities operate.

“Sometimes you have a job in an area where your combination truck just won’t fit,” Cook says. “That’s what the MUNI PACS is designed for — solving those problems.” 618-382-2525; [www.elastec.com](http://www.elastec.com).

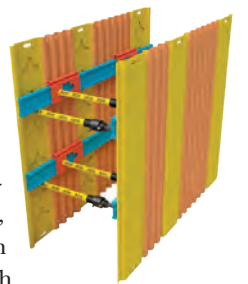
## Krausz USA HYMAX GRIP 16-inch

The HYMAX GRIP 16-inch restraint coupling from Krausz USA features only four top-facing bolts for installers to tighten and a stab-fit, one-piece design. The top-facing bolts eliminate underdigging for space to crawl under the pipe to tighten bolts, while the stab-fit, one-piece design allows for easier and faster installation, eliminating problems such as losing bolts in the mud. Capable of gripping and connecting pipes with 70 tons of power, the GRIP chain offers circular restraint around the pipe using a radial closing mechanism that holds pipes tightly in place during installation, allowing full control over the gap between pipes. The coupling can absorb post-installation dynamic pipe deflection of up to 4 degrees on each end, reducing the risk of damage and cracking due to ground shifts and temperature changes, and saving resources on future pipe repairs. 855-457-2879; [www.krauszusa.com](http://www.krauszusa.com).



## EZE Shoring composite trench lining system

The composite trench lining system from EZE Shoring is a lightweight, easy to assemble unit that uses composite struts to make it nonconductive. The nonconductive materials makes it suitable for the installation of underground utilities, including gas, water, and electricity. The system is simple to install, with no clips, pins, slings, pumps, or hydraulics, and each component weighs less than 55 pounds. Easily fitting into a transit van for rapid deployment if required, the system is very flexible in accommodating different depths and trench lengths. The shoring can be used in excavations 8.26 feet deep and in widths up to 5.74 feet wide, and up to 8.2 feet wide with metallic props, if required. [www.eze-shoring.co.uk](http://www.eze-shoring.co.uk).



## Vector RDB 1015 rapid deployment boom

Vector has introduced the RDB 1015 rapid deployment boom as an option for the company’s 2100 Series combination sewer cleaners, which

# AS DEPENDABLE AS YOUR BEST HUNTING PARTNER



## Durable Gear for Extreme Conditions



20 QT - ~~\$148.99~~



45 QT - ~~\$199.99~~



60 QT - ~~\$239.99~~



75 QT - ~~\$299.99~~



100%  
REPLACEABLE  
PARTS



5 YEAR  
WARRANTY



MAXIMUM  
ICE  
RETENTION



SNOW



SAND



SURF

COLOR OPTIONS



833-777-8443  
RUGIDGear.com

include the Vactor 2100i and 2100 Plus trucks. The boom telescopes 10 feet out and extends the debris hose an additional 15 feet down for faster cleaning of catch basins, manholes and lift stations. The boom has a telescoping tube-within-a-tube design and a flexible hose resides inside the inner tube. The hose extension assembly uses a positively driven belt to advance the flexible hose from inside the telescoping tube. When positioned for work, the hose remains securely in place. **800-627-3171; www.vactor.com.**



## Mueller Water Products Super Centurion fire hydrant

The Super Centurion fire hydrant from Mueller Water Products features a two-piece ductile iron upper barrel with a nozzle section that can be separated from the traffic section by removing two high-strength bolts, making seat replacement or traffic repair simple and quick. The A-403 has a traffic flange; 5 1/4-inch, fully encapsulated, reversible main valve; a durable polyurethane topcoat; and automatic oil lubrication. All internal components, nozzles and repair parts are fully interchangeable with the Super Centurion 250 hydrant. The A-403 is currently available with a 5 1/4-inch main valve and a three-way opening configuration with two hose nozzles and one pumper nozzle. This lightweight, dry barrel fire hydrant is certified UL/FM/AWWA at 350 psi operating pressure and factory tested to 700 psi. **800-523-8618; www.muellerwaterproducts.com.**



## Watts Water Technologies Dead Level Brickslot Grate

The Dead Level Brickslot Grate from Watts Water Technologies is a stainless steel slot drain option available for all 6-inch-wide Dead Level Systems: ductile iron frame, polypropylene frame, and shallow channel for cast-in-place applications. The Brickslot Grate is an ideal solution for jobs that require an equipment- or pedestrian-friendly slope to a finished grade for use with brick pavers or concrete. Its sleek look is designed to fade into the pavement and complement the architectural design of the surface while efficiently draining walkways and working areas. **978-688-1811; www.watts.com.**



## Felling Trailers Utility Pole Trailers

The new Utility Pole Trailers from Felling Trailers come in three lengths: 20 feet retracted to 30 feet extended, 24 feet retracted to 40 feet extended, and 29 feet retracted to 46 feet extended. Payload capacities from 7,980 up to 36,600 pounds are available. Electric brakes are standard, and all can be equipped with air brakes if needed. Equipped with a 2-inch cold-rolled steel, positive-locking adjustment pin and designed with a notched flange welded on the pin, the flange notches have to pass through two tabs welded 90 degrees from each other, assuring a positive locked position. Multiple load securement points are located down the mainframe rail, and three D-rings provide ideal tie-down points for the material being carried in the cargo area. **866-213-2949; www.felling.com. ♦**



# Featured In An Article?

We provide reprint options



**POSTERS**  
Starting At  
**\$35**

Sizes:  
24" x 30" &  
36" x 45"

**LASER REPRINTS**  
Starting At  
**\$10**



**ELECTRONIC REPRINTS**  
Starting At  
**\$25**



Order through our website

**www.mswmag.com**

## Paul Tiszai joins Trio-Vision

Trio-Vision announced the addition of Paul Tiszai as its new West Coast regional manager. Tiszai has been involved in the pipeline inspection equipment industry for over two decades. Prior to joining Trio-Vision, he held various management positions at SPX (formerly Pearpoint), working his way up from a technician's assistant position to management responsibilities in various departments such as production, service, and sales.



Paul Tiszai

## Felling Trailers selects Trailer for a Cause beneficiary

Felling Trailers has selected Minnesota Ovarian Cancer Alliance as the 2018 Trailer for a Cause auction beneficiary. The company hosts its annual Trailer for a Cause online auction of an FT-3 Utility trailer to benefit a non-profit organization. Felling Trailers' goal is to bring awareness to various nonprofits that are making a difference by donating 100 percent of the winning bid from the auction to a different nonprofit each year. The auction is planned for the fall with a tentative start date of Sept. 15.

"In past years, we would meet as a family and select the benefitting organization. This year, we put that decision in the hands of our employees. A list of organizations was given to employees to select from, and once the votes were tallied, MOCA had received the most votes in their favor," says Brenda Jennissen, president and CEO of Felling Trailers.

## ADS announces new location in Illinois

ADS announced the opening of its new office in Orland Park, Illinois. The expansion of the company will allow ADS to more efficiently service its existing wastewater customers and become more responsive as the company continues to grow.

## LaValley Industries adds new distributor

LaValley Industries entered into a strategic alliance with American Augers to distribute the TONGHAND exit side wrench and DECKHAND pipe-handling system specifically configured for loading and unloading drill pipe in horizontal directional drilling applications. These additions complement the American Augers product line of pipeline equipment, which includes maxi-sized horizontal directional drills, drilling fluid reclaimers, pumps, and trenchers.

## Cusco announces new technical sales manager

Cusco announced Blaine Simon as its new technical sales manager. From lead operator to account manager, he previously worked in the heavy-equipment sector specializing in sales and water and sewer construction. Prior to Cusco, Simon worked as a territory manager for an online heavy-equipment rental site and was responsible for building account partnerships with OEM dealerships and independent contractors. As technical sales manager, Simon will be responsible for growing new and existing business accounts with dealers and end users. ♦



Blaine Simon

# THE HIGHEST GRADE, BELOW GRADE

**A+**

## SPECIFICATION TEST

YES/NO

**ASTM F2561** - LMK's T-Liner® is an engineered, full-circle structural main-to-lateral connection. It renews lateral pipes in one continuous length up to 200 feet. This system can be installed with either polyester or epoxy resin. T-Liner is one of the highest grade, below grade, liner systems that meet ASTM F2561.

**WATERTIGHT SEAL** - T-Liner, with a service life that matches the 50 year design life, uses molded ASTM F3240 compliant Insignia™ hydrophilic gaskets that swell when exposed to water creating a compression seal that prevents infiltration tracking between the liner and host pipe.

**24/7 SUPPORT** - Each independent licensed distributor-contractor completes a standardized comprehensive training that includes classroom, laboratory and live, in-field exercises, giving them the ability to provide complete installation support services.

**BROAD SOURCING** - T-Liner is available from a nationwide network of over 25 independent distributor-contractors.



To learn more, call or visit us at:  
[LMKTECHNOLOGIES.COM](http://LMKTECHNOLOGIES.COM) | 815.640.9302



BOOTH 6555

## PEOPLE/AWARDS

Maser Consulting PA in Red Bank, New Jersey, announced **John M. Mele** joined its Municipal Service Division in the role of project manager. Mele specializes in the planning, design, permitting, and preparation of construction plans, estimates, and specifications for various capital works projects, including stormwater management system upgrades.

**Champion Local Schools** received a \$5,000 Ohio Environmental Protection Agency Environmental Education minigrant to develop a stormwater control basin at the new pre-K-8 school complex. The 1-acre basin then will become an outdoor learning lab that adjoins the little brown bat habitat and wetlands.

The **Morgantown Utility Board** received the 2018 Environmental Award for Stormwater Outreach from the West Virginia Department of Environmental Protection.

The Metropolitan Water Reclamation District of Greater Chicago awarded the **village of River Forest** (Illinois) up to \$75,000 in grant funding to construct a green alley between Gale and Keystone avenues, from Vine Street to Madison Street. The village applied for the grant through the Metropolitan Water Reclamation District's Green Infrastructure Program, which assists in the construction of sustainable stormwater runoff solutions.

The Pigeon River Fund of the Community Foundation of Western North Carolina awarded \$217,010 to several environmental groups. Among the recipients were:

- **Haywood Waterways Association** — \$44,970 for the Elevated Park Stream Improvement Project on Jonathan Creek, a major tributary in the Pigeon River watershed in Maggie Valley.
- **North Carolina Arboretum Society** — \$20,000 to help transform a sediment catch basin into an innovative stormwater wetland complex by increasing the pond's storage capacity, improving filtering and management of stormwater, and increasing habitat for the mole salamander and other aquatic species.

The **city of Bronson** received a \$1.6 million State of Michigan Stormwater, Asset Management and Wastewater grant.

**Michael Bentel**, a doctoral student at the University of California, Riverside, received the American Water Works Association 2018 American Water Scholarship. The scholarship is an annual award of \$5,000 presented to a graduate-level student to assist with the development of professionals interested in service to the water industry.

The **American Public Works Association** announced its Public Works Leaders of the Year for 2018. Included among the honorees are:

- Mike Frisbie, city engineer, city of San Antonio
- Samuel A. May, city manager, city of Margate, Florida
- Robert Mitchard, Public Works director, village of Algonquin, Illinois
- Nan Newlon, director of Public Works, village of Downers Grove, Illinois
- James W. Patteson, director, Fairfax County Department of Public Works and Environmental Services, Fairfax, Virginia

- Larry Schneider, streets superintendent, city of Fort Collins, Colorado
- Josh Watkins, water utility manager, city of Redding, California
- Paul Q. Woodard, director of Public Works, city of Janesville, Wisconsin.

## LEARNING OPPORTUNITIES

### Kentucky

The American Water Works Association is offering an Effective Utility Management seminar on Sept. 19-20 in Louisville. Visit [www.awwa.org](http://www.awwa.org).

### Wisconsin

The University of Wisconsin is offering an Essentials of Hydraulics for Civil and Environmental Professionals workshop on Sept. 25-27 in Madison. Visit [www.epd.wisc.edu](http://www.epd.wisc.edu).

### Online

The American Water Works Association is offering a Utility Tools and Strategies for Climate Change Planning webinar on Sept. 12. Visit [www.awwa.org](http://www.awwa.org).

The American Public Works Association is offering a Talking Top Tech: Geographic Information System (GIS)/Mapping webinar on Sept. 13. Visit [www.apwa.net](http://www.apwa.net).

The American Water Resources Association is offering a Forecast Informed Reservoir Operations Improve Water Management webinar on Oct. 10. Visit [www.awra.org](http://www.awra.org). ♦

## CALENDAR

### Sept. 17-19

National Rural Water Association WaterPro Conference, Fort Worth, Texas. Visit [www.nrwa.org](http://www.nrwa.org).

### Sept. 29-Oct. 3

Water Environment Federation Technical Exhibition and Conference, Morial Convention Center, New Orleans. Visit [www.weftec.org](http://www.weftec.org).

### Oct. 12-15

American Society of Civil Engineers 2018 Convention, Hyatt Regency Denver at Colorado Convention Center. Visit [www.asce.org](http://www.asce.org).

### Oct. 28-31

American Water Works Association Water Infrastructure Conference & Exposition, Atlanta. Visit [www.awwa.org](http://www.awwa.org).

### Nov. 4-8

American Water Resources Association Annual Conference, Marriott Inner Harbor at Camden Yards, Baltimore. Visit [www.awra.org](http://www.awra.org).

### May 6-9

American Public Works Association North American Snow Conference, Indiana Convention Center, Indianapolis. Visit [www.apwa.net](http://www.apwa.net).

### July 7-10

American Society of Agricultural and Biological Engineers Annual International Meeting, Boston Marriott Copley Place, Boston. Visit [www.asabe.org](http://www.asabe.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](mailto:editor@mswmag.com).



# SOUTHLAND TOOL MFG. INC.

*Building Innovative Tools for Municipalities*



## **SOLUTIONS TO SEWER CLEANING THROUGH: CONCEPT • DESIGN • PRODUCTION**



Manhole Tools • Debris Baskets • Vac-Traps • Root Saws • Calcium Cutters • Sewer Rods  
Handy Clams • Nozzle Extensions • Deep Vac Tube Holder • Grabbers Claws and Hooks  
Diamond Tap Cutters • Fiberglass Poles • Hydraulic Cutters • Top Manhole Rollers • Sewer Spoons  
Continuous Rod • Carbide Saws • Vacuum Coupling • Reducers • Hydro Excavation



1430 N. Hundley St  
Anaheim, CA 92806

ph: 714.632.8198  
fax: 714.632.8228

YouTube  
[www.SouthlandTool.com](http://www.SouthlandTool.com)



## Every day is Earth Day.™

“We must be one of the earliest plants to employ full-scale UV. We’re proud of the fact that we are not adding chemicals to our discharge. We maximize the biological activity — let the microbes do their thing. Engineers design the best plant they know how to, and contractors build it as well as they can. In the end, though, it’s the operators who make it work.”

**Joni Emrick**  
An Original Environmentalist

WATER RESOURCE MANAGER  
Kalispell (Mont.) Wastewater Treatment Plant

Get your **FREE** subscription and read about original environmentalists like Joni each month in *Treatment Plant Operator*.

**tpo**

COLE PUBLISHING INC.  
tpomag.com  
800-257-7222

*Proudly Serving the Environmental Service Industry Since 1979*



**Now That's Smokin'!**  
Tests up to 7500 cubic feet of pipe per minute  
**Turbo Fog MH75**  
• Easy • Cost Effective • Compact •

**TURBO-FOG**  
1.800.394.0678 www.turbo-fog.com

**SIZE MATTERS!**



**Skid Sizes Clearly Marked**  
**Wear Resistant Lasts 2x longer**

**SEWER SHARK**  
**SewerSharkMfg.com**  
**(888) 90 SHARK**  
Order Online  
PATENT PENDING

**INNOVATIVE ONBOARD SCALES**  
FOR ALL PUMPER – VACUUM HYDRO-EXCAVATORS



**SPIF Compliant**

**Reflex - Chassis Mounted Display**  
An innovative & intelligent device to be used as a basic weighing system or as a SIM system used to automate the management of the auxiliary axle(s)

**Kiload K2 Cab Mounted Display**  
Best onboard weighing system for straight body trucks, equips all suspensions, air, leaf spring and walking beam without modifying the truck

**Sentinel Wireless Monitor**  
Most accurate 8 channelled, onboard weighing system on the market with a margin of error of +/- 1%

**CLERAL USA**  
1.866.901.7372  
www.cleral-usa.com

**CONFINED SPACE ENTRY PACKAGE**  
ONLY \$3,195

**The Best Package On The Market Includes:**

- 4-Gas Air Monitor (3 Year Sensor Warranty)
- 7' Tripod
- 3-Way Fall Protection
- Work Winch
- Full Body Harness



Add a Blower with 15' of duct for only \$350!  
Add a 5 Minute Escape Respirator for only \$500!

**MTECH** 800.362.0240  
www.mtechcompany.com

**“Your One-Stop Stopper Shop!”**

FOR 31 YEARS – HOME OF THE ORIGINAL  
**PIPE PLUG & NB BAG/ PILLOW DESIGN STOPPER**  
[ SINGLE SIZE OR MULTI SIZE PIPE STOPPERS 4" & UP ]

- » SINGLE & MULTI SIZE PASS THRU PLUGS
- » MULTI SIZE PLUGS & MULTI SIZE LEAK LOCATORS
- » SINGLE & MULTI SIZE TEST PLUGS
- » COMPLETE LINE OF SEWER & DRAINAGE TOOLS AVAILABLE

disc plugs | high pressure plugs | large inflatable pipe plugs | pipeline testing & acceptance plugs | pneumatic by-pass plugs

**SEWER EQUIPMENT CO. OF FLORIDA, INC.**  
NEW SMYRNA BEACH, FL  
IN FL 800.225.2952 | OUT OF FL 800.635.2323  
IN CANADA 800.328.3318  
www.SewerEquipmentCo.com

SubSurface Instruments

## NEED TO LOCATE BURIED PVC?



**AML PRO SERIES**

- Microprocessor Intelligence
- GPS Plotting & Tracking
- Noise Isolating Headphones
- Patented Technology

**PL-1500 & PL-2000 PIPE & CABLE LOCATORS**

- Underground pipe & cable locators
- Available in single frequency and multi frequency
- Lightweight receivers w/ easy-to-read LCDs

[www.ssilocators.com](http://www.ssilocators.com)

PROUDLY MADE IN THE USA

## Protect Camera Lines, Jetter Hose, and CIPP Liners With The MPR 100.



**H2TR** LEADING THE INDUSTRY IN EDGE PROTECTION

[www.H2TR.com](http://www.H2TR.com)  
(517) 204-2121

Made in the U.S.A.

Leading the industry in edge protection



Over 30 years building quality equipment!

## HotJet USA

OUR MOST VERSATILE JETTER!  
FULLY LOADED! PRICE INCLUDES DELIVERY!\*

**HOTJET II**

WITH PAYMENTS AS LOW AS **\$565.00**

\*\$2,995.00 SALE PRICE WITH 20% DOWN O.A.C.

35 HP Vanguard Engine • 10GPM @ 4,000 PSI  
Cleans 2-12" Drains with Hot OR Cold Water

\*Delivery to lower 48 States Only - CALL FOR DETAILS

**1-800-213-3272**  
[www.hotjetusa.com](http://www.hotjetusa.com)



## KWMI

MANUFACTURING

The KWMI Easement Machine is an all-terrain rubber tracked power carrier designed specifically for the pumper-cleaner industry.

With the KWMI Easement machine you will have unparalleled access to manholes in **WETLAND AREAS, WOODED AREAS, NARROW ALLEYS**, practically anywhere.

The KWMI Easement Machine is built rugged in construction and is easy to operate.

**800-503-0076**  
[www.kwmiequipment.com](http://www.kwmiequipment.com)

## DYNAMIC REPAIRS

**We Repair:**  
General Wire, Ratch, RIDGID, Hathorn Corp. Electric Eel, GatorCams, Vision Intruders and Vivax Inspection Cameras, Locators, Command Modules and Cables

**New & Refurbished Inspection Equipment For Sale**

**Rental Equipment Available**  
Daily & Weekly Rates

Ask About Our 48-Hr. Turn Around Time

**INSPECTION CAMERAS ARE OUR ONLY BUSINESS!**

**973-478-0893**

**DYNAMIC REPAIRS**  
40 Arnot St., Unit 20  
Lodi, NJ 07644  
[dynamiccablerepairs@yahoo.com](mailto:dynamiccablerepairs@yahoo.com)  
[www.dynamicrepairs.biz](http://www.dynamicrepairs.biz)



TECH CLOSE-UP: SATELLITE TECHNOLOGY HELPS FILTERS SPOT LEAKS. HOW TO: HUMANISE COMPLIANCE TRAINING AND POLICES AREN'T ENOUGH. SAFETY FIRST: PLANNING IS KEY TO PROTECTING PROCEEDING.

**BUYER'S GUIDE**

**MAPPING THE FUTURE**  
Wisconsin's utility GIS mapping and other next-generation upgrades boost system performance.

**PROJECT NEWS**

Visit Us At

**weftec**  
the water quality event™

**Booth #4251**

**MUNICIPAL SEWER & WATER**

[www.colepublishing.com](http://www.colepublishing.com)

## Soil Surgeon

**Most Powerful Hydro-Excavating Tool On The Market**

Fits All Truck Manufacture Designs

Quick Connects To 8" Or 6" Boom

Control Water Flow, Pressure & Power With The Truck's Controls

Can Cut Through All Soil Types

**Model X1**

Features Include:

- 6' Aluminum Tube
- Handles
- Water tips boring inward & outward
- Bumpers to protect tips & lines

Patent #6,484,422B1  
**949-363-1401**  
[www.soilsurgeoninc.com](http://www.soilsurgeoninc.com)

## DYE TRACERS

Solutions for:

- Infiltration
- Septic Systems
- Cross Connection
- Leaks and more...

**BRIGHT DYES**  
Division of Kingscote Chemicals

**NSF** Certified to ANSISF 60

**www.brightdyes.com • 1-800-394-0678**

## GAS MONITOR SALE



**Micro Clip XL Multi-Gas**  
#MCXL-XWHM-Y-NA

**Gas Alert Quattro**  
#QT-XWHM-A-Y-NA

**MRP**  
MILWAUKEE RUBBER PRODUCTS  
**1.800.325.3730**  
[www.MilwaukeeRubber.com](http://www.MilwaukeeRubber.com)

# classifieds

see photos in color at [www.mswmag.com](http://www.mswmag.com)

## DEWATERING

**FOR SALE:** Two (2) Andritz 2.2-meter belt presses, unused after complete refurbishing to Andritz factory specifications throughout. Dyer Equipment Co. 970-454-3784, Ault, CO or [dyerequipment@aol.com](mailto:dyerequipment@aol.com) (M09)

## POSITIONS AVAILABLE

GapVax, Inc., a nationally recognized manufacturing business, is seeking a talented, highly motivated individual to fill a full-time Sales Position in the Midwest (Iowa based preferred) region. GapVax is the leading manufacturer of industrial and municipal vacuum units and hydroexcavation units in the United States. We provide the most reliable, comprehensive, and efficient mobile vacuum units in the industrial and municipal markets. Specifications of the position are listed on our website, [www.gapvax.com](http://www.gapvax.com), click on the Now Hiring link in the left hand column. Send resumes to or [betty@gapvax.com](mailto:betty@gapvax.com) or 575 Central Avenue, Johnstown, PA 15902. (MBM)

## PUMPS

Honda model WP40X, 8 hp, 4" with hoses. Honda 4 hp, 2" pump with hoses. The Cable Center: 800-257-7209. (CBM)

## RENTAL EQUIPMENT

Liquid vacs, wet/dry industrial vacs, combination jetter/vacs, vacuum street sweeper & catch basin cleaner, truck & trailer mounted jettors. All available for daily, weekly, monthly, and yearly rentals. **VSI Rentals, LLC, (888) VAC-UNIT (822-8648) [www.vsirentalsllc.com](http://www.vsirentalsllc.com)**. (CBM)

## SERVICE/REPAIR

**Dynamic Repairs - Inspection Camera Repairs:** 48 hour turn-around time. General Wire, Ratech, RIDGID, Electric Eel Mfg., Gator Cams, Insight Vision, Vision Intruders. Quality service on all brands. **Rental equipment available.** For more info call Jack at 973-478-0893. Lodi, New Jersey. [www.dynamicrepairs.biz](http://www.dynamicrepairs.biz) (MBM)

## TOOLS

**T&T Tools:** Probes, hooks. Probes feature steel shafts with threaded and hardened tips. The insulated **Mighty Probe™** tested to 50,000 volts. **Top Poppers™** open manhole covers easily. Free catalog. **[www.TandTtools.com](http://www.TandTtools.com)**. Phone **800-521-6893**. (CBM)



**Reed 636A** pneumatic pipe cutter. Used, in good condition. Two complete sets available. Cuts pipe sizes 6" to 36". Cuts HDPE, steel, fiber, etc. Cost \$10,000, new will sell for \$4,500 each. Local pick up in West Palm Beach or will palletize and ship for an additional fee.

**Call Sam at 561-844-2990 or 561-719-8028, FL** M10

## TV INSPECTION

**NEED TRACTION?** We make aftermarket more aggressive pads and chain assemblies for all chain-driven camera tractors. Custom, dependable, double-hole fabrication secured to high-quality carbon steel chain, or just pads and rivets. Also available: wheels and tires. Pad samples upon request. **Pipe Tool Specialties LLC:** 888-390-6794; Fax 888-390-6670; [pipetoolspecialties.com](http://pipetoolspecialties.com) or email [pts4422llc@gmail.com](mailto:pts4422llc@gmail.com) (MBM)

USED EnviroSight ROVER Sewer Inspection Crawler: Overhauled with new parts and ready to run. Includes automatic cable reel, pan/tilt/zoom camera, steerable 6-wheel-drive tractor with various wheel sets, controls, and accessories. \$20,000. Call 973-252-6700. (MBM)

**LOOKING FOR TRACTION IN THAT GREASY PIPE??** Finally – a flexible polymer wheel with carbide grit for added traction in all pipe types and conditions, fitting most major CCTV transporter brands. Patent pending. Order today at [trugritraction.com](http://trugritraction.com), call 407-900-1091 or email [info@trugritraction.com](mailto:info@trugritraction.com) (MBM)

Used and rebuilt camera kits in stock: RIDGID Mini Compact, Mini Color, Standard Self-Leveling, General Gen-Eye I, II and III, Aries Seeker, and SRECO kits. The Cable Center: 800-257-7209. (CBM)

## WATERBLASTING

20,000 - 55,000 psi Sapphire Nozzles, OS4, OS6, OS7 replacements, UHP hoses & replacement parts. Excellent quality & prices. 772-286-1218, [info@alljetting.com](mailto:info@alljetting.com), [www.alljetting.com](http://www.alljetting.com). (CBM)

**Submit your classified ad online!** [www.mswmag.com/classifieds/place\\_ad](http://www.mswmag.com/classifieds/place_ad)

**TRYTEK** Over 30 Years of Product Excellence!

[www.trytek.com](http://www.trytek.com) • 717-428-1477

**IndustrialOdorControl.com**  
A Broad and Economical Range of Odor Control Solutions

- Manhole Odor Inserts
- Pollution Control Barrels
- Activated Carbon
- Lift Station Odor Control
- Septic Vent Filters
- Custom Solutions

Simple Solutions DISTRIBUTING LLC (866-667-8465) 973-846-7817 in NJ  
Makers of the Wolverine Brand of Odor Control Solutions

**Cua Claws**  
A Simple Solution for Slippery PVC Pipe - **The Right Wheels**  
We resurface all makes of steel transport wheels-Including Rausch

**CALL JERRY AT 714-697-8697**  
[www.cuaclaws.com](http://www.cuaclaws.com)

**Green Bison heavy duty degreaser**  
Superb product for grease control in collection systems. Emulsifies grease, improves high pressure cleaning performance. Highly recommended for cleaning/degreasing of tools, equipment and machinery. With Green Bison you do not have to trade efficiency for safety. Green Bison is a certified environmentally responsible product that utilizes natural and bio based ingredients, delivers industrial strength cleaning power while keeping your cost down.

Call us today **866-366-0587**

This product meets the Green Seal™ standard for cleaning/degreasing agents based on its reduced hazard to humans, reduced aquatic impacts, reduced smog production, and low ozone depletion potential.

**safe-tee chemical**  
[safetechemical.com](http://safetechemical.com)

**Let Us Build Your JETTER**

**Diesel Propane Gas**  
**Hot or Cold**

**AMERICAN JETTER.COM**  
**866-944-3569**

**It's your magazine. TELL YOUR STORY.**

At Municipal Sewer & Water, we're looking for sewer and water departments with an interesting story to tell. If you'd like to share your story, send us a note at [editor@mswmag.com](mailto:editor@mswmag.com).

**MUNICIPAL SEWER & WATER**

- Air Routers
- ◆
- Reinstatement Cutters
- ◆
- Air/Water  
Inversion Units
- ◆
- Rebuilds & Repairs



Quality UL/FM, AWWA, NSF Valves  
Ductile Iron / Brass / PVC Sch-40 & 80



www.soval.com  
Tel: 888-877-6825

## Switch Blade Static Hydro Excavation Nozzle

**Ace Nozzle**  
SKU 1002036

**Deuce Nozzle**  
SKU 1002035

**3200 PSI**

**Quad Nozzle**  
SKU 1001928

- Max Water Temperature: 180° F
- Housing Material: Stainless Steel

**FREE SHIPPING\* TAX FREE** Except FL  
\*Some delivery restrictions may apply. Call for details.

**WaterCannon.com**  
**1.800.333.WASH**  
(9274)

## MAXIMUM FLEET OUTPUT IS NOT A PIPE DREAM

## PROTECT ASSETS + IMPROVE FLEET SAFETY & EFFICIENCY

ONE PLATFORM TO OVERSEE IT ALL

Go to [bigroad.com/fleet-management-solutions](http://bigroad.com/fleet-management-solutions)

# QUICK

Usually Ships In 1/2 The Lead Time  
Horizontal and Vertical Pumps

Our vertical sump pump line offers up to 3000 GPM, 230' Heads and 26' depth. The horizontal end suction pump line offers up to 3000 GPM, 300' Heads, back pullout construction and semi-open impellers.

View our complete catalog and pump selection software on-line.

**VERTIFLO** 39 YEARS 1979-2018

**VERTIFLO PUMP COMPANY**  
The Industrial Pump Specialists  
513-530-0888 • www.vertiflopump.com

# MAINLINE MACHINE!

## D-5 Key Features:

- Runs 5/8" or 3/4" Tri-Max Cable for added flexibility and longer life
- High density polyethylene drum and belt guard will not rust or dent
- Auto cable feed for ease of operation
- Heavy duty 1/2HP capacitor type motor produces more torque and plenty of power

**Electric Eel**  
**800-833-1212**  
ElectricEel.com

# Superior<sup>®</sup> SMOKE

## For SEWER TESTING

Superior Smoke Fluid Systems  
Smoke Candles • Smoke Blowers

MADE IN USA

**Superior Smoke Testing**  
The Most Cost Effective Method to Find Sources of Surface Inflow

[SuperiorSignal.com/MSW](http://SuperiorSignal.com/MSW)

855.511.PARK

## Big Tipper<sup>™</sup> Sludge King<sup>™</sup>

Specially Designed Tipping Dewatering Container

weftec| 2018 Booth 1542

**Features**

- Faster Drying Time
- 30% More Filter Area
- Handrails & Walkways
- Hydraulic Dumping

Available With **PolyCat<sup>™</sup>**  
Batch Mixing Polymer System

**PARK PROCESS**

[www.ParkProcess.com](http://www.ParkProcess.com)

# World Leader in Developing and Manufacturing Epoxy Resins

- » Manhole Lining
- » Corrosion Protection Coating
- » Spray-on & Hand Applied Resin
- » CIPP Resins for Different Diameter Pipes
- » PVC Adhesive, 0% VOC
- » High Temperature Epoxy

Number One Epoxy Coating Based On Independent Testing

**NeoPoxy**  
PureEpoxy Structural Rehabilitations  
**510-782-1290**  
[www.NeoPoxy.us](http://www.NeoPoxy.us)

# SOLD

Reach over 39,000 professionals each month and sell your equipment in the classified section.

[www.mswmag.com](http://www.mswmag.com)

GET EMAIL NEWS ALERTS FOR MUNICIPAL SEWER & WATER

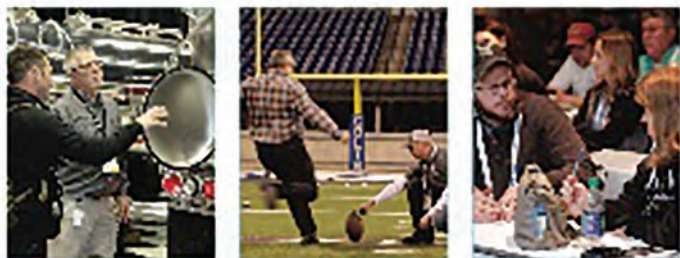
Go to [mswmag.com/alerts](http://mswmag.com/alerts) and get started today!



## A CLEAR APPROACH TO A STRONGER FOUNDATION

Planning for the future of your community's water and sewer services is a complex and demanding challenge. But you don't have to face it alone.

Join your industry and connect to the newest practices, innovative ideas and cutting-edge technologies. Plus, get access to all facets of water and wastewater management so you can tackle big challenges head-on. From the Marketplace Expo to hands-on demos and a comprehensive educational program, you can get everything you need to strengthen your business, all in one place. Make your plans now to attend.



# wwett<sup>TM</sup>19

CONFERENCE: FEBRUARY 20-22

MARKETPLACE: FEBRUARY 21-23

INDIANA CONVENTION CENTER

## WHY SHOULD YOU ATTEND?

- ✓ **Explore the Marketplace** for tools and resources you need for your business
- ✓ **Education** taught by some of the best and brightest in the industry
- ✓ **Events** to network with your peers - or just kick back with friends.

**SAVE THE DATE! GapVax OPEN HOUSE September 13, 2018**



**GapVax®**



***#1 Choice Manufacturer of  
Industrial & Municipal Vacuum Equipment***

**Combo JetVacs • Recycle JetVacs • Hydro Excavators  
Jetters • Air Movers • Skid Mounted Vac Units**

**PARTSEXPRESS**

**Parts & Accessories**



888-442-7829 Johnstown, PA

281-884-8658 La Porte, TX

[www.gapvax.com](http://www.gapvax.com)

# THE VAC·CON® Titan

DUAL ENGINE COMBINATION MACHINE



**BIG POWER.  
LITTLE NOISE.**

- 44% Fuel Savings
- 43% Decrease in Vacuum System Operating RPM
- 25% Increase in Airflow
- 16-30% More Horsepower
- 8% Decrease in Noise Pollution
- 5% Increase in Overall Vacuum Pressure (lift)

**VAC·CON**  
MORE POWER TO YOU

Find Your Dealer Today! [www.vac-con.com/dealer-search/](http://www.vac-con.com/dealer-search/)  
Contact us for a Demo - Toll Free: 1-888-920-2945  
International: +1-904-493-4969 | Email: [vns@vac-con.com](mailto:vns@vac-con.com)