Operate at a higher level.
Specifying Glass-Fused-to-Steel tanks means specifying the lowest total life cycle cost to tank owners. No other tank company can match the longevity and quality of our low maintenance tanks that can be constructed in 1/3 of the time it takes to build concrete and welded tanks, and we do it with our own expert crews.

- 36 years of experience
- Over 1,200 tanks and counting

NO PAINTING ► NO FADING ► NO CHALKING ► NO DEGRADING ► NO WORRIES

The Tank Industry’s Leaders have Joined Forces!
Engineering America is now partnering with Permastore Tanks and Silos, the global market leader in modular tank and silo design, to bring the innovative PERMASTORE® products and services to the U.S. water, wastewater, and industrial markets. This partnership expands Engineering America’s regional coverage to 24 states. Expanded coverage provides significant new customer benefits, including an enhanced ability to serve customers with multiple locations in the United States. It also allows us to offer the highest value products from the global leader to the U.S. market, including to our existing base of over 1,000 customers. Visit Engineering America and Permastore at local and national tradeshows around the country!
POTABLE WATER MIXING/ICE PREVENTION
“These mixers give peace of mind, especially in winter.”
Cary Johnson, water operations mgr., Rochester Public Utilities, Rochester, Minnesota

POTABLE WATER/THM REMOVAL
“GridBee in-tank aeration is effective and affordable.”
Tony Linder, WTP division chief, Dept. of Water Supply, County of Maui, Hawaii

WASTEWATER MIXING/BASINS AND LAGOONS
“We reduced our nitrate levels and lowered our energy costs.”
John Willis, wastewater plant supervisor, Ventura, California

LAKES AND RAW WATER
“We reduced WTP operating costs caused by algae blooms.”
James A. Brown, water production manager, Newton County, Georgia

WASTEWATER MIXING/WET WELLS
“Don’t let wipes clog your pumps.”
Curtis Roeth, foreman, Sewer Dept., Cromwell, Connecticut

Improve all of your water

Water operators and engineers rely on GridBee® electric and air-powered mixers and SolarBee® circulators to help reduce operating costs, achieve better compliance and improve water quality. Factory field service available.

Call us today for prompt, friendly service and fast, reliable results. 1-866-437-8076

Medora Corporation • Dickinson, ND • 866-437-8076 • www.medoraco.com
Meet the first water meter with an integrated three-state valve.

New Sensus ally™ is the first meter in the industry with remote on, off and reduced flow capabilities built into the design. Allowing you to control flow like never before. Turning water on and off remotely not only saves time and money on truck rolls, but also increases response time. And with the ability to reduce flow you can minimize exposure of lost revenue. This game-changing meter is also equipped with pressure and temperature sensors. Giving you more insight into your distribution system. So Sensus ally is far more than a meter. It’s your partner in the field.

Nothing’s out of reach.

To learn more about our three-state valve technology, visit sensus.com/ally.
Come see us at ACE16 booth 1701.
Further to Flint
Planning for Growth: Fort Mill Water Pollution Control Plant
2016 Membership Directory
2016 Buyers’ Guide
Message from the Chair
Message from the Director
Message from the Editor
Industry News
News & Notes
Professional Directory
Ad Index

On the Cover: Duluth, MN. See you there for our centennial celebration September 20 – 23.

Visit us at www.mnawwa.org
KLJ PROVIDES INNOVATIVE ENGINEERING
for your water system planning, treatment, storage and piping needs.

Customized Systems with Guaranteed Results!

- Dualator® III treatment system
  New Prague, MN
- Horizontal pressure filtration system
  Albertville, MN

Years of experience providing water treatment systems throughout Minnesota.
Tonka Water offers a wide range of customized water treatment solutions
to meet specific application requirements.

Thousands of quality water treatment installations since 1956.

Represented in Minnesota by Great Northern Environmental.
 Looks like summer is just around the corner. We all know what that brings, water usage increases, work projects, and reconstruction. The work will always be there, so make sure you take some time to recharge, use your vacation, and have some fun with your families.

I had the pleasure of attending the Southeast District School in Rochester and the Southwest District School in Redwood Falls. Both were educational, and it was good to talk with and see some old friends. Thank you to everyone who puts these schools together. Speaking of that, we could always use some help, so if you have some “free” time, let your district trustee know.

You all should have received a postcard about our 100th anniversary celebration. Along with the vendor show and education classes, there will be other events taking place. Please visit www.mnawwa.org for more details.

Looking forward to seeing you this September in Duluth.

“...you all should have received a postcard about our 100th anniversary celebration. Please visit www.mnawwa.org for more details.”

**HYMAX®**

**Re: the past. Connect the future.**

**THE TWO-BOLT HYMAX CLAMP**

- Only 2 bolts = less time in the ditch
- The most durable permanent repair clamp
- Available in nominal sizes 3”-12”

**FAMILY MEMBERS**

- HYMAX COUPLING
- HYMAX VERSA
- HYMAX GRIP

**ACE16**

Meet us at ACE 2016 Booth #1863

**KRAUSZ** is the creator of HYMAX

For more info, visit krauszusa.com or call 855-467-2879 (855-4KRAUSZ)

*Product lengths of 15” and higher have more than 2 bolts*
Regional Meeting of Section Officers (RMSO)

The Region 3 (includes Minnesota Section) RMSO took place April 22 – 23 in Fargo, ND. It was well attended by all the Sections in the region (including Canada). Issues discussed included changes to the dues structure, ACE special offers, section membership and statistics, membership engagement, Community Engineering Corps, and Section updates/highlights.

These meetings are the most important tool for gaining updated information on AWWA and AWWA Sections as well as for with a national representative, AWWA staff and other Section leaders.

My personal highlight of the meeting was the bus ride back to the hotel … Stew Thornley and Tony Belden led the riders in singing a number of old hits and school rousers over the PA system. I have not laughed that hard in a while!

AWWA Updates

Section Services
Julia Geisler is a new Section Services Coordinator as of April 5. Julia is a native of North Carolina and recently completed a Masters in Environmental Policy from the University of Denver.

She will serve as the primary point of contact for Section Volunteer Leaders and Section Staff on Section-related needs.

Washington, DC, Office
Alan Roberson retired from AWWA in March. He was thanked for his long service to the Association and will be missed by staff and volunteers.

Congratulations are in order to Steve Via, who was recently named Alan’s replacement as the Director of Federal Relations.

2017 AWWA President-Elect Candidates
David Rager, AWWA’s current Treasurer, was the only candidate to submit an application for the President-Elect position. Therefore, at the winter meeting in 2017, the current President shall call for a vote of acclamation from the Board of Directors for David Rager as President-Elect. David will begin his year as President-Elect at the conclusion of ACE17 and will take the helm as President at the conclusion ACE18.

Water Utility Council Fly-In
On April 13 and 14, members from Sections and the Association flew to Washington, DC, to meet with congressional members
to discuss various water initiatives, attempt to fund WIFIA (the Water Infrastructure Finance and Innovation Act), and limit any reductions to State Revolving Funds.

ACE16 – The Water Equation Campaign’s Silent Auction
The Water Equation will hold a silent auction in the exhibit hall during ACE16. As in 2015, Sections that donate an item to the auction will receive back 50% of the net proceeds of that item. All other proceeds will benefit the new One AWWA Operator Scholarship Fund that will provide matching funds to participating Sections. Last year, 20 Sections played a part in this event. Let’s work together to raise funds for the One AWWA Operator Scholarship!

Community Engineering Corps (CE Corps)
With the recent influx of water projects in underserved communities across the U.S., CE Corps needs additional volunteers to serve on the Technical Review Committee (TRC). The ideal candidate has a professional license and at least four years of experience. Volunteer hours can be served remotely with the bulk of the work conducted over email. If you are interested, please submit your resume to Lindsey Geiger.

Water Audit Challenge
AWWA announced a challenge to its member water utilities and others to complete 1,000 water audits over the next two years using AWWA’s newest Water Audit Software. The challenge was announced at the White House Water Summit in Washington, DC, on World Water Day.
Utilities that participate in the AWWA challenge will be able to access the Association’s Water Loss Software version 5.0, a free tool that was recently updated to support audits of water systems of all sizes.
Sections are encouraged to spread the word about this challenge. More about water loss control can be found in the AWWA Water Loss Control Resource Community.

DrinkTap.org
AWWA recently relaunched its consumer website, www.drinktap.org. Originally created in 2005, the new site offers fully-updated information for the public on a variety of topics pertaining to the value of water and water supply.

AWWA Board Meeting
The next AWWA Board meeting will be held at ACE16 in Chicago, IL.

The Minnesota Section...Serving its Members and the Public for 100 Years!
The Fall Conference will culminate our centennial anniversary! Make sure to invite friends, retirees, new members, and coworkers to the celebration.
As always, if you have any questions about the Association, please contact me via email at jeaton@cityofeagan.com. I want to Thank the Minnesota Section for voting me as Director, and the Association Board for voting me as Vice-President. I am honored to represent our Section and Association! See you in Chicago at ACE16!

Helping communities tap into water’s potential

Design with community in mind
stantec.com

Stantec
Your customers expect water to flow without interruption. We expect the same performance from our meters.

Ferguson Waterworks is a leading national supplier of top water meter brands, providing agencies and departments with a steady flow of data and productivity. With the latest technology and product support for Automated Meter Reading and Advanced Metering Infrastructure solutions, we’re ready to put our knowledgeable associates and expert installation capabilities to work for you.

We offer technology assistance, in-house installation, product accessories, and service after the sale to ensure your total satisfaction.

Iowa
Steven Brush
(651) 242-1221

Minnesota
Todd Phillips
(612) 850-9495
Howdy! We know the two Minnesota seasons – winter and road construction. We never know what kind of a winter we’ll get, but we can always count on a plethora-load of detours, closures, and restricted roads through the non-winter months. I’d like to tell you that I’ll navigate streets and highways without saying a lot of dirty words, but you know I can’t promise that. I can promise that I’ll reduce my speed and drive with extra caution, especially when workers are present. I know all the rest of you will do that, too – a lot of the workers are us.

Since we’re good on that, I’ll turn my preaching to another subject: distracted driving. I’m glad there has been a lot of attention on this and it’s being treated seriously. My wife, Brenda Himrich, is the safety manager at Metro Transit, and this has been a big topic for her for years. She even got an award for a video she did on distracted driving. And then she ended up being a victim of one of those texting twits. Fortunately, she came out of it okay, but it was damn scary and drove home to me how big a deal this is.

I had an overnight at Regions Hospital in February (nothing major, just some bone work around the hip). Brenda picked me up the next day, and we were back at the hospital about 15 minutes later. Driving home on Como Avenue, we waited at a red light at Rice Street. The light turned green, and, as she always does, Brenda checked the intersection for any stragglers before proceeding. She was halfway through the intersection when she was T-boned by a minivan whizzing north on Rice.

Brenda was taken by ambulance to Regions Hospital. They checked her out and released her. What scared the crap out of me was looking at her car, which had been rammed in the rear door. Had she gotten hit in the driver’s door, Brenda likely would have been seriously injured.

The driver of the minivan was ticketed by St. Paul police for inattentive driving and failure to obey a traffic signal. (This P. O. S. first tried to claim that her brakes had failed; the cops didn’t buy it.) The driver’s insurance company accepted full responsibility, Brenda got full value for her totaled car, and she bought a Prius, something she had been wanting to do for a long time. It was a good time to get a Prius with the gas prices low and everyone else buying Hummers since they don’t care if they get only four miles to the gallon. (They will care when the gas prices go up, and Brenda will be even happier with her Prius then.)

Even though this somehow all came out okay for us, it doesn’t always happen that way. Don’t text and drive. If you do, you’re a lowlife. (I first typed in a different word but changed it to something milder. I’ll save that word for when I drive through construction zones.)

Sidenote: Two weeks after all this, I was in Florida for spring training, having a great time until the incision from my surgery started bleeding. I had two days left in Florida and didn’t want to go to an emergency room down there. To get through one day I taped hotel towels around my hip and leg. That worked, but then I found something better at Walgreens: a feminine hygiene product. What could be more absorbent, I thought? (And the best thing was the guy at Walgreens said if I bought these that I could ride horses and go swimming and do all sorts of fun stuff.) My purchase paid off. I got home blood-free and got everything taken care of without even having to go through an emergency room. I think the makers of this product are missing a big share of potential buyers. I’m going to do something about that. Look for them on the shelves of your favorite pharmacy soon: Manpons.
The drinking water quality issues in Flint, MI, have drawn the attention of the national news media. According to the City of Flint 2014 Annual Water Quality Report, in May 2014 the city began distributing Flint River water treated at the Flint water treatment facility. Prior to that time, Flint distributed treated water received from the city of Detroit and decided to switch to the Flint River treated water for economic reasons. The Flint River was to be a temporary water source, since the city of Flint was to obtain Lake Huron raw water from a pipeline being constructed by the Karegnondi Water Authority, scheduled to be completed late 2016.

During the summer of 2014, customers in some areas of the city experienced “rusty” water, likely released from cast iron pipe degradation in the distribution system. The city also experienced total coliform and E. coli violations in August and September 2014 and a total trihalomethane violation in December 2014. In response, the city moved to decrease water age in the distribution system, optimized the ozone treatment process, and installed granular activated carbon in the filters at the water treatment plant.

The issue that sparked the recent national media attention was elevated blood lead levels found in children by a study by the Hurley Medical Center in Flint. Subsequently, a research team headed by Dr. Marc Edwards, an engineering professor from Virginia Tech and expert in lead and copper corrosion, found elevated lead levels in water samples collected from Flint households. Further studies by Dr. Edwards’s team found that the Flint River treated water was more corrosive than the Detroit water. News accounts and professional reports generally agree that changing water sources caused a substantial change in water quality in the Flint distribution system. Dr. Edwards’ group linked high chloride levels relative to sulfate in the Flint River treated water to its increased corrosivity relative to the Detroit treated water.

Additionally, the Detroit water contained an orthophosphate corrosion inhibitor, whereas the Flint River treated water did not. These water quality differences likely increased iron release...
from cast iron piping and lead from customer service lines and premise plumbing. To mitigate the corrosion issue, Flint switched its water supply back to Detroit-treated water in October 2015 and began dosing additional orthophosphate to the water to inhibit lead corrosion.

This incident should draw the attention of public water supply professionals. A likely question might be, “Could something like this happen in my water supply system?” Perhaps more to the point, “What water quality changes could occur in my system that might cause issues with my customers?” Potential water quality issues might be revealed to customers through a change in taste, odor, or color, or may not be sensed by the physical appearance of tap water.

Water quality factors that can affect corrosivity toward iron, lead, and copper include temperature, pH, disinfectant types and concentrations, the concentrations of various anions such as chloride, sulfate and bicarbonate, and corrosion-inhibitor concentrations. Whenever the values of these parameters change substantially in a distribution system, the water may become more or less aggressive to metals. It is not unusual for untreated ground water in the Upper Midwest to be corrosive. Most water systems with corrosive ground water have addressed that issue in response to compliance with the Lead and Copper Rule, most commonly by pH adjustment or by treatment with a corrosion-inhibiting phosphate chemical. Systems using corrosion inhibitors must be careful to provide a consistent residual of the corrosion-inhibiting chemical, since inhibitor concentration changes or loss of the inhibitor concentration could activate the metal surfaces to corrosion.

The quality of surface water sources varies more widely than ground water. For example, surface water temperatures in the Upper Midwest can vary from close to freezing to 25°C. This change in temperature affects chlorine decay in the distribution system, with potential influence on the corrosion process. Temperature changes also can affect the active concentrations of phosphate chemicals, especially the reversion of polyphosphate to orthophosphate that occurs if polyphosphate or blended poly/ orthophosphate chemicals are applied. As illustrated by the Flint experience, if a system anticipates switching to a new supply (or considers blending water from multiple sources), the potential exists for a change in corrosivity or the release of deposits that coat metal components, and an evaluation of this change is warranted. Changing forms of disinfectant (free chlorine versus chloramine) can also affect corrosivity. These source water or disinfectant changes will frequently trigger attention to the Lead and Copper Rule sampling requirements, especially if the system has been on reduced monitoring.

The Flint experience also alerts the water supply industry to the presence of corroducible metals, (such as iron, lead or copper) in water distribution systems and premise plumbing. Even though systems may have an effective corrosion control program that minimizes the risk of exposure to the customer and complies with the Lead and Copper Rule, asset management initiatives should consider the benefits of removing, replacing, or lining (where appropriate) corroducible metals to mitigate the potential risk of metals release. Perhaps the direct implementation of this idea is to complete a lead service line replacement program or a cast iron pipe lining or replacement project.

Finally, the Flint experience raises the importance of protecting water quality in the distribution system. Beyond appropriate treatment at the water treatment facility, cross-connection control, flushing programs, prevention of stratification in water towers, and maintenance of appropriate chlorine residuals are among the tools that public water supply systems employ to ensure water quality is maintained in the water distribution system. If you have questions about water quality, your distribution system, or the Lead and Copper rule, please contact Dr. DeBoer at Delvin.DeBoer@ae2s.com.
Since 1947, Brown and Caldwell has helped municipal utilities solve their toughest drinking water challenges. Advance with us.

- Master Planning
- Water Supply, Distribution and Treatment
- Integrated Buried Infrastructure Management
- Environmental Compliance
- Instrumentation and Control Systems
- Business Consulting
- Facilities and Energy Optimization
- Asset Management

AMERICAN is proud to introduce a proven, life extending product for iron pipe that is now available to domestic markets – zinc coating. The zinc coating system has been used overseas to extend the life of iron pipe for many years. As a result, the coating has an established ISO standard that ensures quality and effectiveness.

AMERICAN began supplying zinc coating for our export orders more than 30 years ago. Now, we’re pleased to offer this proven system to markets here at home. Zinc coating significantly extends the life of an already rugged and reliable product – ductile iron pipe.
Planning For Growth:
A Flexible and Phased Approach Using New Treatment Technologies

By David Wankmuller, PE, Hazen and Sawyer, Meredith Bridwell, PE, Hazen and Sawyer, and Paul Mitchell, Town of Fort Mill

BACKGROUND
The Fort Mill Water Pollution Control Plant (WPCP) is designed to treat a permitted capacity of 3.0 mgd based on maximum week flow. Based on peaking factors, this equates to an annual average flow of 1.9 mgd. Currently the annual average flow is 1.0 mgd but, due to the proximity of the service area to the City of Charlotte, the number of building permits already submitted/approved, and development in the planning stage, annual average flows are projected to almost triple by the year 2024 and increase six-fold by 2044. As a result, the Town of Fort Mill initiated a master planning effort to evaluate the existing plant and determine the upgrades necessary to increase capacity both in the near and in the long-term. Near-term was defined as the next seven to 10 years (up to 2024) and long-term was defined as the next 20 years (up to 2044). It was projected that ultimate buildout of the facility would be 6.0 mgd, which could be reached by 2044 based on current flow projections. This article will present the findings of these evaluations and how the Town incorporated the inherent uncertainty in flow projections, ever-changing effluent requirements, reuse, sustainability and the development of new technologies.

Flow projections from the Fort Mill Engineering Department were provided based on active, approved, pending, and possible residential construction permits. Based on the numbers provided, growth rates could vary from a high of 17.6% to a low of 12.0%. These projections appear very aggressive, but similar growth rates have been experienced regionally in other rapid growth rate areas such as Union County, NC and Wake County, NC. Due to the uncertainty and variability in residential construction, growth rates were compared to projections made by the local school board. A flow of 4.0 mgd by the year 2034 was used for the long-term evaluation, while provisions were made to be able to expand to 6.0 mgd in the future.

EVALUATION
In addition to a significant increase in flow, the nitrogen loading to the treatment plant has almost doubled in the past 10 years (the influent Total Kjeldahl Nitrogen (TKN) concentration increased by 80%), effectively reducing treatment capacity. Influent BOD, TKN, and TSS are at 41%, 86%, and 53% of the design influent loads, respectively.

The treatment process was modeled using the BioWin software and calibrated using samples and data collected throughout the process train over a several-day period, and followed up with some additional sampling. The model was utilized to evaluate the current process and potential upgrades. The evaluation identified several near-term upgrades, and it also prepared a flexible plan for implementing long-term upgrades. Several processes were evaluated for the liquid train including membrane bioreactor (MBR), BioMag, integrated fixed film activated sludge, and conventional secondary treatment technologies. Based on a number of factors, the Town chose to maximize the process capacity of the existing conventional treatment system in the near-term while allowing for the flexibility to expand in the future, with either conventional treatment or MBR treatment to accommodate the long-term projections. Upgrades to the solids handling facility were also necessary, since the existing sludge drying beds were undersized for current conditions. The decision was to build a new dewatering facility with a gravity belt thickener (GBT)/belt filter press (BFP) combination unit, with space for an additional future unit.
Predicting the future in any system can be difficult, but even more so when significantly high growth is projected. The Town is also sensitive to current variability in changes in state regulations, the desire to operate a sustainable system, and the ongoing improvements in existing treatment technologies and development of new ones. For these reasons the Town elected to pursue a phased approach, which not only has the benefit of deferring infrastructure upgrades until absolutely necessary, and mitigating some of the inherent uncertainty associated with flow projection planning, but also allowed for the deferral of capital costs associated with significant plant upgrade projects.

**NEAR-TERM IMPROVEMENTS**

The existing capacity evaluation indicated that the facilities are at or near capacity. Near-term solutions to address existing aeration, solids handling, and electrical reliability challenges were developed. The improvements were designed to be implemented relatively quickly, and to maximize the use of existing infrastructure. Modifications included, but were not limited to:

- New blowers to be able to provide sufficient air for full nitrification at a 2.5 mgd annual average flow (maximum capacity of existing tanks in using conventional activated sludge).
- Replacement of the existing air piping and diffuser grid system to allow the flexibility to convert to an MBR system in the future.
- A dissolved oxygen control system.
- New gravity belt thickener (GBT)/belt filter press (BFP) facility.
- Replacement of the majority of the electrical distribution and emergency backup infrastructure.

A process flow diagram of the facility, after improvements, is shown in Figure 1.

### LONG-TERM IMPROVEMENTS/EXPANSION PLANNING

A long-term expansion evaluation was performed to develop a plan to modify existing structures and build new facilities. The new facilities would treat 4.0 mgd with provisions to eventually treat 6.0 mgd (average annual flow) in 30 years. The current permit has annual mass load limits corresponding to an effluent total phosphorus (TP) concentration of 0.50 mg/L at design flow. Speculative discharge limits suggest that the facility will receive new effluent TP limits that correspond to, approximately, 0.25 mg/L effluent TP at flows of 6.0 mgd. It is important to note that once the flow increases beyond 3.0 mgd, the lower effluent TP requirement would be triggered, which will require the addition of filtration (gravity or membrane) to the treatment process. Also, based on anticipated ultimate oxygen demand (UOD) limits, the facility was designed to have an effluent NH3 goal of 5 mg/L or less. Three alternatives were considered for long-term expansion:

- Alternative 1 – Conventional nitrification/biological phosphorus removal (AO and UCT). Figure 2
- Alternative 2 – Membrane Bioreactors (MBR) Process. Figure 3
- Alternative 3 – Diverting some or all flow to the Manchester Creek WWTP located in Rock Hill, SC.

Due to economics, Alternative 3 was eliminated from consideration. The long-term improvements for Alternatives 1 and 2 involve upgrading and/or expanding all areas of the treatment plant, and generally include: a new influent pumping station (once annual average flows exceed 3.0 mgd); new coarse and fine screens; new (or expanded) aeration basins; new...
“The phased approach allowed the Town of Fort Mill to defer capital costs while maintaining reliable treatment for up to 2.5 mgd.”

secondary clarifiers or membranes (depending on alternative selected); new tertiary filters (pending the regulatory climate, i.e., once flow exceeds 3.0 mgd); additional solids handling equipment; and, upgraded (or new) disinfection equipment.

CONCLUSIONS
Using a phased approach, the capacity and reliability of the Fort Mill WPCP will be maximized in the near-term, while maintaining flexibility for future expansion to conventional or MBR treatment. The phased approach allowed the Town of Fort Mill to defer capital costs, for when the facility begins to see an increase in influent flow, while maintaining reliable treatment for up to 2.5 mgd.

ABOUT THE AUTHOR
Dave Wankmuller is a Principal Engineer with Hazen and Sawyer and is a member of Hazen and Sawyer’s Wastewater Process Group focusing on wastewater process design and BioWin modeling.

YOUR LOCAL WATER TREATMENT & DISTRIBUTION PROFESSIONALS

Extensive Experience & Client Service:
Advanced & Innovative Treatment
Water Storage Tanks & NACE III Certified Inspection
Custom Renovations
Cost Saving Optimizations

Proficient Planning:
Navigating Regulatory & Funding Requirements
Water Distribution System Analysis
Water System Planning Studies
Utility Rate Studies

www.bolton-menk.com
bm@bolton-menk.com

Fifteen offices proudly serving the Upper Midwest
The Great Lakes is now home to AMERICAN SpiralWeld’s newest division. That means we’re closer than ever to delivering solutions throughout the Great Lakes. Whatever the job size, in sizes up to 12 feet in diameter and thickness up to one inch, we can handle it. Built strong, built to endure, and made in America. That’s The Right Way. That’s the AMERICAN way.

**GOING TO GREAT LENGTHS TO DELIVER GREAT PIPE.**

american-usa.com/aswp
1225 E. Marengo Ave., Flint, MI 48505 • Phone: 1-866-442-2797
aswp@american-usa.com
EOE/Minority/Female/Veteran/Disability

DUCTILE IRON PIPE FLOW CONTROL INTERNATIONAL SPIRALWELD PIPE STEEL PIPE

---

**DIXON ENGINEERING, INC.**

Engineering and Inspection Services for the Coating Industry

Since 1981, Dixon Engineering has been recognized as a leader in the storage tank and coating inspection industry. With offices throughout the midwest, our clientele consists of industrial, state, municipal, and federal clients. Dixon has experience with virtually any type of water and wastewater storage tank and coating maintenance needs. Specify Dixon Engineering and let our expertise help you preserve the value of your facilities.

**Dixon offers the following services to meet your engineering and inspection needs:**

- **Inspection Services**
  - Tank Maintenance
  - Underwater Dive or ROV
  - Warranty
  - Steel Coating Applications
  - Concrete Coating Applications
  - New Tank Construction

- **Engineering Services**
  - Tank Coating Specifications
  - Expert Witness
  - Antenna Design and Review
  - Coating System Failure Analysis
  - Cathodic Protection Specifications
  - Treatment Plant Coating Specifications

Our staff is comprised of engineers and NACE, SSPC, AWS, and API certified inspectors.

Visit our website at [http://www.dixonengineering.net](http://www.dixonengineering.net) for information about these and our other services.

Corporate Office: Lake Odessa, Michigan (800) 327-1578

Dixon Engineering, Inc. www.dixonengineering.net James Orr

Wisconsin Office: Hales Corners Wisconsin (800) 327-1578
Industry News

Poster Contest Draws More Than 1,600 Entries

Tara Haas of Wayzata East Middle School (above, at right) received the grand prize in the annual water poster contest. Event sponsors included H2O for Life, the Minnesota Department of Health, Minnesota Section of American Water Works Association, and Bongard Corporation/Elkay, which provides a bottle-filling station to the school. Also pictured with Haas are Sarah Alexander and Abby Collins of H2O for Life and Mike Smeed of Bongard. Here are some of the other winning posters from this year’s competition.

Grand prize winning poster designed by Tara Haas of Wayzata East Middle School

Sarah Alexander, Abby Collins, and Mike Smeed awarding Tara Haas with the grand prize

Poster designed by Jenna Ahles, Oxbow Creek Elementary in Champlin

Poster designed by Angela Park, Duluth East High School in Duluth

Poster designed by Kelly Kitoski, Jackson Middle School in Champlin

Click HERE to return to Table of Contents
From the Waterline

Lewis & Clark Rumble Along

A covey of VIPs came to Luverne in March to cut the ribbon for the city's connection to the Lewis & Clark Regional Water System. “This is a momentous occasion that has been 26 years in the making,” said Mayor Pat Baustian. “Having a stable pure water source for our citizens and the growth of our community is a huge deal.”

Conceived in 1988 as a way of serving water-challenged areas in South Dakota, Iowa, and Minnesota, the Lewis & Clark project takes water from beneath the Missouri River at Vermillion, SD, to communities as far as 60 miles away. The project will serve approximately 300,000 people when it is completed. The pipes crossed into Minnesota last May and began serving Rock County Rural Water District, the first project partner in the state to receive water. Luverne became connection partner number 13, with seven still to go in the overall project (including Lincoln-Pipestone Rural Water System, Worthington, and Madison in Minnesota). Dense fog in the area prevented Minnesota governor Mark Dayton from attending, but he sent a message that said, in part, “I am terribly sorry that air travel conditions have prevented me from being in Luverne today. This project is critically important to the people and businesses in the Luverne area. I congratulate everyone who has worked so hard to make it a reality.”

A Minnesota Department of Health (MDH) internal review found inconsistent procedures associated with the handling of some drinking water samples that had a temperature requirement during transport to laboratories.

As a result, beginning last February, MDH took a series of steps that included evaluation of past monitoring results to determine which complied with the temperature requirements and retesting of water systems; the resampling was based on factors including past monitoring results and transport time from a sampling site to a laboratory.

In 2015, MDH took approximately 2,800 drinking water samples for organic chemicals (about 30% of the total water samples collected). Current federal guidelines for various compounds, including organic chemicals, require they be kept at less than or equal to 6 degrees Celsius (but not frozen). In some cases, however, samples were transported at room temperature. This may have caused some samples to degrade, yielding results lower than the true value. In most cases, the data were unlikely to have been off by a large margin, but the inconsistent practices introduced an unacceptable level to data.

MDH commissioner Ed Ehlinger said, “While the situation as a whole would not suggest an increased risk for most communities, we want to ensure we have the highest level of reliability in our data on drinking water quality. This inconsistency is unacceptable and should not have happened. We’re moving swiftly to correct it.”


The issue of lead in water continues to receive a lot of attention as a result of the situation in Flint, MI. An Associated Press story in April revealed that nearly 1,400 public water systems exceeded the U.S. Environmental Protection Agency action level for lead in water between 2013 and 2015.

In Minnesota, the news is better. At this time, only one community water system is considered in exceedance of the action level; this situation was caused by a sample in a home that had a leaking water heater. Although the problem has been rectified, the system will be in exceedance until it passes two sampling rounds over the next year. When the federal Lead and Copper Rule began in the early 1990s, initial sampling put a significant number of community systems in exceedance. Through a variety of corrosion-control strategies – adjustment of chemical properties in the water, addition of corrosion inhibitors, replacement of lead service lines – that number has dropped to almost zero.

Public water systems continue to sample for lead in water on regular intervals. In addition, any system switching to or adding a source of water must submit plans to the Minnesota Department of Health (MDH). Engineers review the plans and examine corrosion-control methods that could be necessary to ensure the water does not absorb materials from pipes in the distribution system.

In addition, Minnesota Department of Health engineers review water quality reports following each round of sampling by a system. Based on these reports, engineers may issue recommendations related to the possibility that the water has the potential to absorb materials, which could include lead, from water mains, service connections between the water mains and homes, and household plumbing.

Rick Wahlen, Eden Prairie’s manager of utility operations, has studied what happened in Flint and has presented his information at water operator schools around the state. Wahlen provided a detailed analysis of Flint in the Spring 2016 issue of The Breeze, the quarterly publication of the Minnesota Section of American Water Works Association, which can be viewed here: http://www.mnawwa.org/?page=Breeze.

“People are advised to flush their faucets any time water hasn’t been used for six to eight hours. Water that has been idle in the pipes can absorb materials from the plumbing system. Letting the water run until it becomes the coldest it will get before using any of it for drinking or cooking is a good idea.”

MDH compliance engineer Anna Schliep has also been presenting about lead across the state to provide education to operators, and the general public, about the Lead and Copper Rule. She has presented several times with Jim Bode of St. Paul Regional Water Services and will be presenting with Rick Wahlen at other schools. If you have questions about your lead and copper sampling or the Lead and Copper Rule, please email Anna to let her know: anna.schliep@state.mn.us.

Even with a minimum of community water systems in Minnesota exceeding the action level for lead, public education continues to be recommended particularly when construction or flushing may disrupt lead containing sediments. Due to the continued presence of lead in home plumbing and lead service lines, it’s important to realize that lead can still be an issue in some homes even when the distribution system is in compliance. Simple precautions can make a difference in reducing exposure to lead in water. People are advised to flush their faucets any time water hasn’t been used for six to eight hours. Water that has been idle in the pipes can absorb materials from the plumbing system. Letting the water run until it becomes the coldest it will get before using any of it for drinking or cooking is a good idea. Using water from the cold tap, rather than hot tap, is also advised as hot water is more corrosive than cold water. Also, minimizing partial lead service line replacements and working with homeowners to get full lead service line replacements is the ideal way to get lead out of the distribution system. Partial lead service line replacements can cause lead release by disrupting sediments in the remaining portion of the line.

Lead Lines
On the issue of lead, public water systems need to remember that individual addresses where testing has been done for lead and/or copper are not public information and should not be released. Also, people calling MDH to ask if they have a lead service line and, if so, who owns the service line, are being referred to the individual water system.
Not far from the original Board of Health Building, just two blocks away at 216 Dakota Street in Red Wing, is the Dr. Charles N. Hewitt Laboratory, built in 1857 and still in existence. Hewitt was an army surgeon during the Civil War who noted the importance of cleanliness to public health. He came to Red Wing in 1867. Five years later, he would establish the State Board of Health and become its first executive director, a post he held for nearly a quarter-century. Hewitt studied at the Pasteur Institute in Paris, and in 1890, in the building pictured above, he established the first laboratory for producing the smallpox vaccine, in Minnesota. A Public Health Journal dedicated one of its YouTube episodes to Hewitt’s story; you can watch it here (https://www.youtube.com/watch?v=ucQem-Zm7A8).

The Minnesota State Board of Health (now the Minnesota Department of Health) was established in Red Wing, making Minnesota the third state after Massachusetts and California to establish a board of health. The law establishing the board – passed May 4, 1872 – had the support of the American Medical Association, the Minnesota State Medical Association, and Governor Horace Austin. The Board of Health moved to the Twin Cities in 1894. The necessity of safe water supplies was an early priority for the board. Typhoid fever, a waterborne disease, was taking a large toll of lives at the time. The original home of the State Board of Health, the Keystone Building, still stands at 409 Main Street in Red Wing.

Experience the difference.
One call. One experience. One service provider.
Providing municipal services for water and wastewater utilities for over 30 years.

Visit Hydro-Klean.com to view our project library and learn more about the valuable services Hydro-Klean has to offer.

1.855.845.5326
Des Moines | Mankato | Rogers | Watertown | Sioux Falls

Building a legacy – your legacy.
ELEMENTS OF YOUR SUCCESS

These elements make up the structure of AE2S. What does that mean to you? Extreme client service, trusted relationships, a shared vision for your future, and passion for every project. They all translate into your success.

Advanced Engineering and Environmental Services, Inc. (AE2S)
Offices located throughout the Upper Midwest and Rocky Mountain Region

www.ae2s.com


When it comes to stormwater chambers, the road from good to great leads directly to HydroStor, the industry’s highest performing chambers. They meet or exceed proven ASTM structural, design and product standards, while including features that matter to the designer and installer.
<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
<th>Phone</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>James Beeman</td>
<td>E. Grand Forks Water Plant</td>
<td>P: 218-731-1511</td>
<td><a href="mailto:jbeeman@eastgrandforks.net">jbeeman@eastgrandforks.net</a></td>
</tr>
<tr>
<td>Timothy Bergquam</td>
<td>Bergersen Canwell Inc.</td>
<td>P: 218-707-7167</td>
<td><a href="mailto:t.berquam@bergersenacswell.com">t.berquam@bergersenacswell.com</a></td>
</tr>
<tr>
<td>John Berriken</td>
<td>TKDA</td>
<td>P: 651-592-2558</td>
<td><a href="mailto:j.berriken@tkda.net">j.berriken@tkda.net</a></td>
</tr>
<tr>
<td>Doug Bendorf</td>
<td>Staples Public Works Commission</td>
<td>P: 651-392-5304</td>
<td><a href="mailto:dbendorf@ci.stpaul.mn.us">dbendorf@ci.stpaul.mn.us</a></td>
</tr>
<tr>
<td>James Benning</td>
<td>Duluth Public Works &amp; Utilities</td>
<td>P: 218-731-4953</td>
<td><a href="mailto:jbenning@duluthumn.gov">jbenning@duluthumn.gov</a></td>
</tr>
<tr>
<td>Tony Benson</td>
<td>Rochester Public Utilities</td>
<td>P: 218-731-4953</td>
<td><a href="mailto:tbenning@duluthumn.gov">tbenning@duluthumn.gov</a></td>
</tr>
<tr>
<td>Robert Benson</td>
<td>City of Stillwater Water Dept.</td>
<td>P: 651-677-4100</td>
<td><a href="mailto:rbrenner@edinaominn.gov">rbrenner@edinaominn.gov</a></td>
</tr>
<tr>
<td>Tony Benson</td>
<td>Rochester Public Utilities</td>
<td>P: 651-677-4100</td>
<td><a href="mailto:tbenning@duluthumn.gov">tbenning@duluthumn.gov</a></td>
</tr>
<tr>
<td>Bruce Berg</td>
<td>St Paul Regional Water Services</td>
<td>P: 651-202-2952</td>
<td><a href="mailto:dbjelland@rpu.org">dbjelland@rpu.org</a></td>
</tr>
<tr>
<td>Dana Bjorke</td>
<td>City of Lakeville Water Department</td>
<td>P: 651-677-6002</td>
<td><a href="mailto:dbjel@ci.eagan.mn.us">dbjel@ci.eagan.mn.us</a></td>
</tr>
<tr>
<td>Nick Bleson</td>
<td>Blue Earth Light &amp; Water</td>
<td>P: 651-777-4041</td>
<td><a href="mailto:jbooth@tate.state.mn.us">jbooth@tate.state.mn.us</a></td>
</tr>
<tr>
<td>John Blonnie</td>
<td>Minnesota Department of Health</td>
<td>P: 651-677-6002</td>
<td><a href="mailto:jbooth@tate.state.mn.us">jbooth@tate.state.mn.us</a></td>
</tr>
<tr>
<td>Adam Bourassa</td>
<td>St. Cloud Public Utilities</td>
<td>P: 651-677-6002</td>
<td><a href="mailto:jbooth@tate.state.mn.us">jbooth@tate.state.mn.us</a></td>
</tr>
<tr>
<td>Michael Bouthilet</td>
<td>City Of Lake Elmo</td>
<td>P: 651-677-6002</td>
<td><a href="mailto:jbooth@tate.state.mn.us">jbooth@tate.state.mn.us</a></td>
</tr>
<tr>
<td>Mike Bristodeau</td>
<td>Minneapolis Water Works</td>
<td>P: 651-677-6002</td>
<td><a href="mailto:jbooth@tate.state.mn.us">jbooth@tate.state.mn.us</a></td>
</tr>
<tr>
<td>Dan Boyle</td>
<td>E. Grand Forks</td>
<td>P: 651-677-6002</td>
<td><a href="mailto:jbooth@tate.state.mn.us">jbooth@tate.state.mn.us</a></td>
</tr>
<tr>
<td>John Bradford</td>
<td>City of Woodbury</td>
<td>P: 651-677-6002</td>
<td><a href="mailto:jbooth@tate.state.mn.us">jbooth@tate.state.mn.us</a></td>
</tr>
<tr>
<td>Darren Braegelman</td>
<td>City of Belgrade</td>
<td>P: 651-677-6002</td>
<td><a href="mailto:jbooth@tate.state.mn.us">jbooth@tate.state.mn.us</a></td>
</tr>
<tr>
<td>Blained Public Utilities</td>
<td>Box 2</td>
<td>P: 651-677-6002</td>
<td><a href="mailto:jbooth@tate.state.mn.us">jbooth@tate.state.mn.us</a></td>
</tr>
<tr>
<td>Mike Bray</td>
<td>Engineering America</td>
<td>P: 651-677-6002</td>
<td><a href="mailto:jbooth@tate.state.mn.us">jbooth@tate.state.mn.us</a></td>
</tr>
<tr>
<td>Scott Bredenhoft</td>
<td>Wonderware Midwest</td>
<td>P: 651-677-6002</td>
<td><a href="mailto:jbooth@tate.state.mn.us">jbooth@tate.state.mn.us</a></td>
</tr>
<tr>
<td>Todd Redesden</td>
<td>HD Supply Waterworks</td>
<td>P: 651-677-6002</td>
<td><a href="mailto:jbooth@tate.state.mn.us">jbooth@tate.state.mn.us</a></td>
</tr>
<tr>
<td>Hunter Redenbach</td>
<td>E. Grand Forks</td>
<td>P: 651-677-6002</td>
<td><a href="mailto:jbooth@tate.state.mn.us">jbooth@tate.state.mn.us</a></td>
</tr>
<tr>
<td>Dustin Bremness</td>
<td>Plant &amp; Flanged Equipment LLC</td>
<td>P: 651-677-6002</td>
<td><a href="mailto:jbooth@tate.state.mn.us">jbooth@tate.state.mn.us</a></td>
</tr>
</tbody>
</table>
Steve Evanson
7361 Boyd Ave
Inver Grove Heights, MN 55076-2403
P: 651-562-9507
steve.evansmon@ci.stpaul.mn.us

Kent Exner
City of Hutchinson
Water Department
111 Hassan St SE
Hutchinson, MN 55350-2522
P: 320-587-4212
kelexen@city.hutchinson.mn.us

Tim Fox
Metropolitan Airports Commission
6045 28th Ave S
Minneapolis, MN 55405-2702
P: 612-726-2165
tim.fox@mespac.org

Mary Fralish
City of Mankato
PO Box 3368
Mankato, MN 56002-3368
P: 507-387-9665
mfralish@city.mankato.mn.us

Wayne Frank
PO Box 247
Lyle, MN 55953-0247
P: 507-325-2311

Douglas Frederickson
Joe Ay Shaw
Mankato, MN 56002-1105
P: 507-642-5388
cityhall@madelonnn.com

Steve Freid
CR Minerals LLC
PO Box 708
Chokio Downtown, MN 56706-0708
P: 612-414-5008
steve@crminerals.com

Jesse Freihammer
City of Roseville
2660 Civic Center Dr
Saint Paul, MN 55113-1809
P: 651-792-7004
jesse.freihammer@cityofroseville.com

Derrick Friedrich
Pace Analytical
1800 Elm St SE
Minneapolis, MN 55414-2500
P: 612-656-1139
derek.friedrich@pacealabs.com

John Friell
SEH Inc.
3535 Vardans Center Dr Ste 200
Saint Paul, MN 55110-5118
P: 651-490-2140
jfh@sehinc.com

Matthew Fritz
Great Northern Environmental
643 Hale Ave N
Minneapolis, MN 55428-7534
P: 952-239-2264
mfritz@gnenv.com

Scott Fronk
Black & Veatch
2776 France Ave S Ste 1200
Minneapolis, MN 55435-3215
P: 952-980-7011
scottfrnk@email.com

Paul Frost
SL-Servo
2817 Anthony Ln S Ste 104
St Anthony, MN 55418-2489
P: 612-325-0277
paul.frost@sl-servo.com

Jackie Gallagher
Parker Hannifin
Process Filtration Division
10531 Cedar Lake Rd Apt 314
Minnetonka, MN 55306-3253
P: 612-867-9818
jgallagher@parker.com

Gary Gusen
City of Two Harbors
252 1st Ave
Two Harbors, MN 56616-1535
P: 218-834-5572
hewinkeltharbors@frontier.com

Rod Ganther
Upper Midwest Equipment Company
PO Box 44682
Eden Prairie, MN 55344-2582
P: 715-410-4966
roger@umequipment.com

Jimmie Gates
City Of Bloomingom
1800 W 6th St
Shakopee Rd
Blmington, MN 55430-3027
P: 952-563-8730
jgates@city.bloomington.mn.us

Steven Gatin
City of Coon Rapids
11155 Robinson Dr NW
Coon Rapids, MN 55433-3761

Katie Gehler
City of Monticello
580 Pacific St
Monterey, CA 94949-2806
jgehler@cityofmonticello.com

Justin George
City of Fremont
580 Pacific St
Ontario, CA 91761-6000
P: 909-804-9712
jgomez@cityoffremont.com

Carly Gerads
1071 Barbara Ct
Chanhassen, MN 55317-9652
P: 651-247-5121
carly.m.artgerads@marquette.com

Glen Gerads
City of Minneapolis
350 S 5th St Ste 203
Minneapolis, MN 55401-1355
P: 612-965-0871
gerads@minneapolismn.gov

Darrel Gerber
3733 Pillsbury Ave S
Minneapolis, MN 55409-1220
darrelgerber@gmail.com

Craig Geyer
DeZURIK Water Controls
250 Riverside Ave N
Sartell, MN 56377-2129
P: 320-250-2090
info@dezurikwater.com

Jamal Ghavi
2126 38th St S
Moorhead, MN 56560-8156
P: 701-390-8126
jamal.ghavi@nds.edu

Steve Gilberg
City of Eagan
3419 Coachman Pl
Eagan, MN 55122-1202
agilberg@ci.eagan.mn.us

Gary Gill
City of Kellogg
PO Box 147
Kellogg, MN 55945-0147
P: 507-699-4670
watersewer@cityofkellogg.org

Christopher Glassing
AMERICAN Cast Iron Pipe Company
21695 Highview
Lakeville, MN 55044-7539
P: 952-240-6591
cglassing@american-usa.com

Stephen Gleason
St. Paul Regional Water Services
1900 Rice St
Saint Paul, MN 55113-6810
P: 651-260-6243
steve.gleason@ci.stpaul.mn.us

David Goering
City of Edina
7450 Metro Blvd
Edina, MN 55429-3037
P: 952-826-0312
dgoering@edinnmn.gov

David Goman
City of Spring Park
4349 Warren Ave
Spring Park, MN 55384-9711
P: 952-471-9011
djgoman@city.spring-park.mn.us

Jason Gro 
Midwest Assistance Program
7542 Scenic Overlook
Breezy Point, MN 56472-3541
P: 612-810-9478
jgrover@fredlaw.net

Jeremy Gosewisch
Shakopee Mawakanon Sioux Community
2300 Sioux Trl NW
Pine Lake, MN 55372-9077
P: 952-406-4767
jeremy.gosewisch@shakopeekota.org

Grand Rapids
Public Utilities Commission
PO Box 658
Grand Rapids, MN 55744-0658
P: 218-362-7024

John Grant
3M
224 30 30 M Cr
Saint Paul, MN 55414-1000
P: 651-733-5864
jgrant3m@3m.com

Jerry Grant
Dzurik, Inc.
250 Riverside Ave N
Sartell, MN 56377-2129
jgrant@dzurik.com

John Graupman
Bolton & Menk, Inc.
1960 Premier Dr
Mankato, MN 56001-5900
P: 507-625-4175
johngr@bolton-menk.com

James Graupman
St. Paul Regional Water Services
1900 Rice St
Saint Paul, MN 55113-6810
P: 651-266-1650
jim.graupman@ci.stpaul.mn.us

Nicholas Griffin
St Cloud Tech.
& Community College
4240 Circle Rd
Exeter, MN 55331-9507
P: 952-465-2089
griffin549@mysctcc.edu

James Grillo
Sensus USA, Inc
16958 Germ Cir NW
Rv-Rk, MN 55350-4113
P: 763-274-0357
jgrillo@sensus.com

Ryan Grimes
Plant and Flanged Equipment, LLC
10101 Kylie St NE
Blaine, MN 55444-5227
rgrimes@plantandflanged.com

Tim Grogan
Toka Water
13305 Water Tower Cir
Plumynuth, MN 55441-3619
P: 763-559-2387
tgrogan@tokawater.com

Greg Guerrero
Duluth Public Works & Utilities
520 Garfield Ave
Duluth, MN 55802-3610
gguerrero@duluthmn.gov

Brian Guldan
Becker & Menk, Inc
7533 Sunwood Dr NW Ste 206
Ramsey, MN 55303-5191
bguldan@becker-menk.com

Jeremy Gumke
City St Anthony
3381 Silver Lake Rd NE Ste A
Minneapolis, MN 55418-1668
jeremy.gumke@
city.st-anthony.mn.us

Geoff Guss
McKhane Ductile-Ohio
2266 S 6th St
Cuyahoga, OH 44128-8906
P: 800-800-6813
geoff.guss@mckhaneductile.com

Dan Haan
City of Spicer
PO Box 856
Spicer, MN 56289-0856
P: 320-786-7892
avantial@cityofspicer.org

Matthew Haenner
City of Chaska
660 Victoria Dr
Chaska, MN 55318-1440
P: 952-221-7730
mhaenner@chaskamm.com

David Hagen
Shakopee Public Utilities
PO Box 470
Shakopee, MN 55379-0470
P: 952-233-1503
dhagensen@shakopeepuutilities.com

Jami Haider
EMA, Inc.
2355 Highway 36 W Ste 200
Saint Paul, MN 55113-3903
jahid@ema-inc.com
**MN AWWA MEMBERSHIP DIRECTORY**

**Adrian Hanson**
3951 Jeffrey Rd
Duluth, MN 55810-9533
P: 218-762-6438
athanson@umn.edu

**Ray Hanson**
City of Mound Water Department
2415 Wilshire Blvd
Mound, MN 55364-1668
P: 952-472-0614
rayhanson@cityofmound.org

**Mark Hanson**
St. Louis Park Water Department
7305 Oxford St
Minneapolis, MN 55447-4512
P: 952-924-2189
mark.hansen@slpw.org

**Charles Haupert**
Advanced Engineering and Environmental Services, Inc
6901 E Fish Lake Rd Ste 164
Minneapolis, MN 55430-9407
P: 763-463-5036
charles.haupert@ae2s.com

**Aaron Hauser**
Willmar Municipal Utility
PO Box 907
Willmar, MN 56091-0937

**Jim Hauth**
City of Eagan
3419 Coachman Pl
Eagan, MN 55122-1202
P: 651-675-5216
jhauser@cityofeagan.com

**Mike Heimer**
Rochester Public Utilities
4000 E River Rd NE
Rochester, MN 55906-3414
P: 507-280-1500
mheimer@rpu.org

**Daniel Heinzmann**
City of Edina
9185 Louisiana Ave N
Brooklyn Park, MN 55446-3240
dannyheinzmann@yahoo.com

**Jared Heller**
Advanced Engineering
and Environmental Services
4170 29th Ave S
Faribault, MN 55021-8405
P: 701-384-1111
jared.heller@live2.com

**Jay Hartman**
City of New Brighton
700 5th St NW
Saint Paul, MN 55112-7214
P: 651-695-2114
jhartman@newbrightonmn.gov

**Jack Hendrickson**
DGG
4507 15th Ave N
Faribo, ND 56102-2840
P: 701-241-9329
jack@tgofz.com

**James Henry**
Henry’s Waterworks, Inc.
510 9th Ave S
Sauk Rapids, MN 56379-1360
P: 320-259-5727
jim@henryswaterworks.com

**Paul Herubin**
200 Maple Ln
Saint Paul, MN 55113-2429
P: 651-788-6706
paul.herubin@ae2s.com

**Cara Hesse**
City of Buffalo
212 Central Ave
Buffalo, MN 55313-1699
P: 763-684-5432
cara.thesse@cityofbuffalo.mn.us

**Tim Hewett**
St. Cloud Public Utilities
400 2nd St S
Saint Cloud, MN 56301-3022

**Erik Neydinger**
701 Xenia Ave S Ste 300
Minneapolis, MN 55416-1030
P: 763-286-8314
e Neydinger@web.com

**Rich Hibbard**
Saint Paul Regional Water Services
1900 Rice St
Saint Paul, MN 55113-6810
P: 612-296-4573
richard.hibbard@ci.stpaul.mn.us

**Jay Hall**
St. Louis Park Water Department
7305 Oxford St
Minneapolis, MN 55426-4512
P: 952-242-2557
jhall@slpw.org

**Mark Hallan**
Widseth Smith Notting Assoc.
7804 Industrial Park Rd
Baxter, MN 56425-8267
P: 218-529-5117
mark.hallan@wsn.us.com

**Mike Hamernik**
City of Winona
1 Johnson St
Winona, MN 55987-3419

**Abdelsalam Hamid**
Saint Paul Regional Water Services
1900 Rice St
Saint Paul, MN 55113-6810
P: 651-266-6818
abdelsalam.hamid@ci.stpaul.mn.us

**Steven Hams**
PO Box 202
Red Lake Falls, MN 56750-0202
P: 218-253-2267

**Larry Handshoe**
28322 139th St NW
Zionsville, MN 55340-9487
P: 763-399-2252
lhandshoe@princetonutilities.com

**Kevin Hansen**
City of Columbus Heights
637 38th Ave NE
Columbus Heights, MN 55421-3806
P: 763-706-3705

**Joe Hansen**
City of Golden Valley
7800 Golden Valley Rd
Golden Valley, MN 55427-4508
P: 763-593-9038
jhansen@goldenvalleymn.gov

**David Harris**
Fischer, Harris & Associates
5605Neal Ave N
Stillwater, MN 55082-2177
P: 651-336-9222
fhansen@fharris.com

**Erin Heydinger**
shilson@rwlwater.com
P: 763-746-9273

**Mark Helling**
City of Inver Grove Heights
8168 Barbara Ave
Inver Grove Heights, MN 55077-3410
P: 651-490-2565
dhelling@ci.inver-grove-heights.mn.us

**Ira Hill**
34521 US Highway 99 SE
Erieke, MN 55330-9465
P: 218-773-4206
ihill@grandforksgov.com

**Matt Hillbrand**
Kodru - Mooney
3650 N Chestnut St Ste 102
Chaska, MN 55318-3045
P: 952-470-1045
matt@kodru-equipment.com

**Tim Hillesheim**
City of Lino Lakes
600 Town Center Pkwy
Lino Lakes, MN 55014-1182
P: 651-464-5567

**Jason Hillman**
Marshall & Polk
Rural Water System
401 N Main St
Warren, MN 56756-1119
mpwss@ruralwater.net

**Joseph Hillstrom**
Shakopee Public Utilities
PO Box 470
Shakopee, MN 55379-0470
P: 952-446-1948
jhilstrom@shakopeeutilities.com

**Daniel Hilson**
RWL Water
7135 Madison Ave W
Golden Valley, MN 55427-3601
P: 763-746-9273
dhilson@rwlwater.com

**Kyle Hinrichs**
City of Mankato
109 Jade Ln
Mankato, MN 56001-6846
P: 507-381-0220
khinrichs@city.mankato.mn.us
George Mihelich
Bois Forte
Lake Vermilion Reservation
1342 Tibbetts Trl
Tower, MN 55790-8168
P: 218-753-2854
gmihelich@frontiernet.net

Hanna Miller
2076 Como Ave Apt 4
Saint Paul, MN 55108-2026
P: 989-600-9720
mll3731@umn.edu

James Miller
FOTH I&E, LLC
300 Douglas Dr
Buffalo, MN 55313-9239
P: 612-961-2505
jim.miller@foth.com

Minneapolis Water Works
350 S 5th St Ste 203
Minneapolis, MN 55402-1355
P: 612-673-2418

Minnesota Department of Health
PO Box 64975
Saint Paul, MN 55164-0975
P: 651-201-4679
gregor.mitziga@kittsonmarshallrnw.com

Martin Moeglein
Thief River Falls Water
PO Box 528
Thief River Falls, MN 56701-0528
P: 218-681-3900
moeglel@yahoo.com

Sean Moilanen
City of Bemidji
1100 Excelsior Blvd
Bemidji, MN 56601-3318
P: 218-745-5000
smoilanen@bemidji.mn.us

Joseph Monsen
City of Warroad
800 Main St
Warroad, MN 56763-1099
P: 218-472-2121
jmmonsen@cityofwarroad.com

Eric Moore
City of Cloquet
320 Dunkirk St
Cloquet, MN 55720-1055
P: 218-726-7560
moore facilitated.com

Michael Moore
Copperhead Industries, LLC
PO Box 1081
Monticello, MN 55362-1081
P: 877-272-5644
m.moore@copperheadwire.com

Moorehead Public Service
PO Box 770
Moorehead, MN 56561-0779
P: 218-299-5400

Shannon Mortonson
City of Crookston
120 E Bridge Ave
Crookston, MN 56716-1510
P: 218-745-5000
shannonm@crookstonmn.com

Gayle Moser
Saint Paul Regional Water Service
1900 Rice St
Saint Paul, MN 55113-6810
P: 651-266-6858
Gayle.moser@ci.stpaul.mn.us

Adam Moulton
Minnesota Pipe & Equipment
5145 211th St
Farmington, MN 55024-8919
P: 651-463-6090
amoulton@mpew.com

Rick Myskewitz
AMERICAN Flow Control
21695 Highview Ave
Lakeville, MN 55044-7539
P: 612-790-6240
rmyskewitz@american-usa.com

N
James Navratil
PO Box 117
Silver Lake, MN 55381-0117
P: 320-237-2766
jnavratil@hotmail.com

Tetee Neawrey
1492 County Road B E Apt 306
Maplewood, MN 55109-3568
P: 651-366-1720
neawrey071@yahoo.com

Doug Neid
City of Brooklyn Park
8300 Noble Ave N
Brooklyn Park, MN 55443-2400
P: 763-493-8099

David Nelson
2827 Wingfield Ave
Anoka, MN 55303-1622
P: 763-706-7401
dj.nelson4598@gmail.com

Steven Nelson
Bolton & Menk, Inc.
7533 Sunwood Dr NW Ste 206
Ramsey, MN 55303-5191
P: 763-433-2851
stevene@bolton-menk.com

Thomas Nelson
City of Grand Marais
PO Box 600
Grand Marais, MN 55604-0600
P: 218-387-1160
wwtf@boreal.org

Accurate, versatile chemical pumps

- Cut chemical costs through higher accuracy metering
- Simple drop-in installation eliminates ancillary equipment
- Range expanded to include the Qdos 60: flow rates from 0.001 to 15 GPH at 100 psi
Shahin Rezania
Minneapolis Water Works
4300 Marshall St NE
Minneapolis, MN 55421-2510
P: 612-601-4902
shahin.rezania@minneapolismn.gov

Jim Ring
Minneapolis Water Dept.
4500 Marshall St NE
Minneapolis, MN 55421-2508
P: 612-716-9503
james.ring@minneapolismn.gov

Thomas Rishel
SCTCC
20820 Itty ave
Lakeville, MN 55044
P: 952-946-7978
tom.rishel@gmail.com

Kent Ritterman
Moore Engineering, Inc.
925 10th Ave E
West Fargo, ND 58078-5211
P: 701-282-4692
kritterman@mooreengineeringinc.com

Vernell Roberts
City of Detroit Lakes
PO Box 647
Detroit Lakes, MN 56502-0647
P: 218-846-7139
dlpublic@ci.detroit-lakes.mn.us

Steven Roepke
City of Bloomington
1800 W Old Shakopee Rd
Bloomington, MN 55431-3071
P: 952-563-4905 X 4501
sroepke@ci.bloomingtonmn.gov

If you set the bar at competence,
how do you reach excellence?

Celebrating five years of different.
MN AWWA MEMBERSHIP DIRECTORY

William Witte
City of Kinney
PO Box 307
Kinney, MN 55758-0307
P: 218-258-2206
tazzman@cmhsl.com

Brandon Winch
Truman Public Utilities
PO Box 397
Truman, MN 56098-0397
P: 507-775-6201

Jason Windigstad
City of Wyoming
PO Box 188
Wyoming, MN 55092-0188
jwindigstad@wyomingmn.org

Dave Wisdorf
City of Excelsior
339 3rd St
Excelsior, MN 55331-1809
P: 952-474-3464
dwsisdorf@ci.excelsior.mn.us

Brian Wise
Lakeville Public Utilities
19177 Greenbrook Dr NE
Lakeville, MN 55068-9572
P: 612-518-2522

Matthew Withrow
SBTGC
1977 Greenbrook Dr NE
East Bethel, MN 55011-9752
P: 763-774-2204
mwithrow@sbtcg.com

Nate Wold
Minneapolis Water Works
935 5th Ave SE
Minneapolis, MN 55410-1205
nate.wold@minneapolismn.gov

Steve Woods
Freshwater Society
2424 Territorial Rd Ste B
Saint Paul, MN 55114-1558
swoods@freshwater.org

Worthington Public Utilities
PO Box 458
Worthington, MN 56187-0458
P: 507-372-8680

Patrick Wrase
City of Rosemount
2875 145th St W
Rosemount, MN 55068-4997
P: 651-322-2022
patrick.wrase@ci.rosemount.mn.us

Chad Wrightson
Saint Paul Regional Water Services
1900 Rice St
Saint Paul, MN 55113-6810
chad.wrightson@ci.stpaul.mn.us

Jeremy Wurpts
Tonka Water
13305 Water Tower Cir
Minneapolis, MN 55441-3819
P: 763-559-2837
jwu@tonkawater.com

Marvin Wurzer
City of Long Lake
PO Box 606
Long Lake, MN 55356-0606
P: 952-476-2055
mewurzer@ci.long-lake.mn.us

Nicholas Wyers
13225 Tributary Wy
Eden Prairie, MN 55346
P: 952-838-5661
nicholas.wyers@gmail.com

Y

Kara Yetter
University of Minnesota
6253 Saint Johns Dr
Eden Prairie, MN 55346-1732
P: 952-237-5166
jyetter@umn.edu

Jun Yin
6131 Creek View Trl
Minnetonka, MN 55345-6110
P: 573-825-5660
jyin0006@umn.edu

Craig Yokopenic
EMA, Inc.
2355 Highway 36 W Ste 200
Saint Paul, MN 55113-3903
P: 651-639-5600
cyokopenic@ema-inc.com

Kevin Young
3301 14th St S Apt 107
Mooshead, MN 55069-5181
P: 320-293-2546
kyo@mplsutility.com

Mike Zaborowski
City of Winona
1 Johnson St
Winona, MN 55987-3419
P: 507-457-8272

Joe Zauner
Fischer, Harris & Associates
5865 Neal Ave N
Stillwater, MN 55082-2177
joe@fischer-harris.com

Carol Zehr
Tonka Equipment Company
13305 Water Tower Cir
Plymouth, MN 55441-3819
P: 763-559-2837
czarren@tonkawater.com

Nancy Zeigler
ACE
6901 E Fish Lake Rd Ste 184
Maple Grove, MN 55369-5477
P: 763-463-5036
nancy.zeigler@ace24.com

Li Zhang
Minneapolis Div. Wtr. Treatment and Distribution Svcs.
4300 Marshall St NE
Minneapolis, MN 55421-2510
P: 612-661-4904
l.zhang@minneapolismn.gov

Daniel Zienty
Short Elliott Hendrickson
3335 Vadnais Center Dr Ste 200
Saint Paul, MN 55110-5108
P: 651-490-2000
daniel@sehinc.com

Paul Zimmer
City of Mankato
PO Box 3368
Mankato, MN 56002-3368
P: 507-243-3937
pzimmer@city.mankato.mn.us

Click HERE to return to Table of Contents

Celebrating a Century of Safe Water

Join us as we celebrate 100 years of proudly serving communities throughout the state of Minnesota. Each year, MN AWWA hosts an Annual Conference in Duluth, MN. This year’s three-day event features a day of exhibits, followed by two days of concurrent technical sessions.

In addition, the Water for People Committee plans and organizes fundraising events that take place the day before the start of the Conference, including golf, fishing, and sporting clays.

Event Date and Location
Duluth Entertainment Convention Center: DECC | September 20 – 23
Check the community calendar at www.mnawwa.org for updates.

Summer 2016 | Breeze  41

W X Y Z
Water System Leak Detection and Water Leak Surveys

In the last 5 years, WCS has helped save over 3 billion gallons of WATER, and helped return over 10 million dollars back to budgets by providing Water System Surveys. Get a quote, and get on our summer schedule today.

Now offering Pool & Plastic Irrigation Leak Detection

Call Tony Schrantz 612-600-8716

Jasper Engineering and Equipment Company
We offer a full line of Instrumentation solutions

We represent Siemens Industry Inc. If you need to measure flow, level, pressure, temperature or other processes, we can provide solutions for you applications. Call today to schedule a visit.

Jasper Engineering & Equipment Co.
700 Hamel Road
Medina, MN 55340
Phone: 952-938-6504
Fax: 952-935-7772
www.jaspereng.com

AWARD-WINNING DESIGN FOR GREATER MINNESOTA COMMUNITIES.

Bergerson Caswell Inc.
5115 Industrial Street · Maple Plain, MN 55359
(763) 479-3121 · (800) 328-6188 · FAX: (763) 479-2183
www.bergersoncaswell.com

The “Full Service, One Stop Shop” for your Water Systems Equipment and Service.

- Well Drilling
- Well rehabilitation
- Well sealing & casing perforation
- Water testing
- Well screen jetting & chemical treatment
- Discharge pipeline component repairs & replacement
- Water meter repair, replacement and upgrading
- VFD Maintenance, repairs and replacements
- Water level monitoring equipment
- Video well inspections
- Pumps and motors
- Pump & motor reconditioning
- Temporary or rental pumps
- Pump station repair
- Pump tests to 5,000 GPM

SERVING CUSTOMERS SINCE 1948

Commercial / Municipal Water Systems
Wells • Pumps • Controls • Service

Bergerson Caswell Inc.
5115 Industrial Street · Maple Plain, MN 55359
(763) 479-3121 · (800) 328-6188 · FAX: (763) 479-2183
www.bergersoncaswell.com
When making purchasing decisions about products and services in the wastewater industry throughout Minnesota and beyond, please support the companies whose advertising makes the Breeze magazine possible. You will find them quickly with our convenient, easy to use Buyers’ Guide. On the following pages, you will find information that will help you meet your purchasing requirements throughout the year ahead. The initial section of this Guide lists categories of products and services along with the various companies that can provide them to you. The following section provides an alphabetical listing of those companies, as well as the contact information you will need to reach them.

CATEGORIES

ACCESSORIES
Engineering America
Frontier Precision, Inc.

ACTIVATED CARBON
CEI-Carbon Enterprises Inc.

AIR STRIPPING
Medora Corporation

AMR SYSTEMS AND METERS/AMI SOLUTIONS
Ferguson Waterworks
Metering & Technology Solutions
Mid America Meter, Inc.
Sensus

ANTHRACITE
CEI-Carbon Enterprises Inc.

CATHODIC PROTECTION
Dixon Engineering, Inc.
Engineering America

CHEMICAL/GASES
TGO Technologies

CHEMICAL PROCESSING & FEED SYSTEMS
TGO Technologies

COATINGS, LININGS, AND CORROSION CONTROL
Bolton & Menk, Inc.
Engineering America
ESS Brothers & Sons Inc.

CONTRACTORS
E.H. Renner & Sons, Inc.
HydroCorp
Hydro-Klean
Knutson Construction
McCarthy Well Co.

DESIGN-BUILD CONTRACTOR
Black & Veatch
Brown and Caldwell
Engineering America
Knutson Construction
Disinfection/Equipment
TGO Technologies

ELECTRICAL INSTRUMENTATION/CONTROLS/GENERATORS
Mid America Meter, Inc.
Ziegler Power Systems

ENGINEERS/CONSULTANTS
AE2S
AECOM
Apex Engineering Group
Black & Veatch
Bolton & Menk, Inc.
Brown and Caldwell
Dixon Engineering, Inc.
Frontier Precision, Inc.
HR Green, Inc.
HydroCorp
KLJ
Moore Engineering, Inc.
Progressive Consulting Engineers, Inc.
Short Elliott Hendrickson Inc. (SEH)
Startec Consulting Services
TKDA
Widseth Smith Nolting
WSB & Associates, Inc.

ENVIRONMENTAL CONTAMINANT TREATMENT SYSTEMS
TGO Technologies

ENVIRONMENTAL DRILLING
Bergerson Caswell Inc.
E.H. Renner & Sons, Inc.
Thein Well Company

FABRICATION
ESS Brothers & Sons Inc.

FILTER MEDIA REMOVE/SUPPLY & INSTALL
CEI-Carbon Enterprises Inc.
Tonka Water

FILTRATION
CEI-Carbon Enterprises Inc.
Progressive Consulting Engineers, Inc.
TKDA
Tonka Water
Van Bergen & Markson, Inc.
Vessco, Inc.
As communities around the globe struggle to find drinking water, new solutions to this old problem must be sustainable, environmentally sound and economically viable. AECOM drinking water experts around the world apply new technologies in advanced treatment to meet growing water demands. Our mission is simple—to bring new water for a thirsty world.
**READING SYSTEM**  
Metering & Technology Solutions

**SAFETY PRODUCTS**  
TGO Technologies

**STORAGE TANKS/RESERVOIR SYSTEMS**  
Dixon Engineering, Inc.  
Engineering America  
Hawkins Inc.  
KLJ  
Pittsburg Tank & Tower Maintenance Co.  
TKDA  
Widseth Smith Nolting  
WSB & Associates, Inc.

**STORMWATER**  
AE2S  
AECOM  
Brown and Caldwell  
ESS Brothers & Sons Inc.  
Hawkins Inc.  
HD Supply Waterworks  
KLJ  
Moore Engineering Inc.  
Short Elliott Hendrickson Inc. (SEH)  
Stantec Consulting Services  
Widseth Smith Nolting

**TANKS – INSPECTION, PAINTING, RESTORATION**  
Engineering America  
KLJ  
Maguire Iron  
Pittsburg Tank & Tower Maintenance Co.  
Short Elliott Hendrickson Inc. (SEH)

**TANKS/ PRE-STRESSED CONCRETE**  
Pittsburg Tank & Tower Maintenance Co.

**TOOLS AND EQUIPMENT**  
Frontier Precision, Inc.

**VALVE ASSESSMENTS**  
M.E. Simpson Co., Inc.

**VALVES**  
HD Supply Waterworks  
Northwestern Power Equipment Co., Inc (NWPE)  
Vessco, Inc.

**WATER QUALITY**  
Medora Corporation

**WATER TREATMENT INSTRUMENTATION**  
AE2S  
Hawkins Inc.  
KLJ  
Northwestern Power Equipment Co., Inc. (NWPE)  
Tonka Water

**WATER/WASTEWATER TANKS**  
Pittsburg Tank & Tower Maintenance Co.

**WATER/WASTEWATER TREATMENT SYSTEMS**  
AE2S  
AECOM  
Black & Veatch  
Bolton & Menk, Inc.  
Brown and Caldwell  
CEI-Carbon Enterprises Inc.  
Dixon Engineering, Inc.  
Hawkins Inc.  
HD Supply Waterworks  
KLJ  
Medora Corporation  
Moore Engineering Inc.  
Northwestern Power Equipment Co., Inc (NWPE)  
Prinsco  
Progressive Consulting Engineers, Inc.  
Stantec Consulting Services  
TGO Technologies  
Tonka Water  
Van Bergen & Markson, Inc.  
Vessco, Inc.  
Water Conservation Services, Inc.  
Widseth Smith Nolting  
WSB & Associates, Inc.  
Ziegler Power Systems

**WATER UTILITIES PRODUCTS MANUFACTURE**  
Northwestern Power Equipment Co., Inc. (NWPE)

**WATER WELLS**  
Bergerson Caswell Inc.  
E.H. Renner & Sons, Inc.  
KLJ  
McCarthy Well Co  
Mid America Meter, Inc  
Progressive Consulting Engineers, Inc.  
Stantec Consulting Services  
Thein Well Company  
TKDA

**WELDED STEEL ELEVATED TANKS**  
Pittsburg Tank & Tower Maintenance Co.

**WELL DRILLERS**  
Bergerson Caswell Inc.  
E.H. Renner & Sons, Inc.  
McCarthy Well Co.  
Thein Well Company
ALPHABETICAL LISTINGS

AECOM
800 LaSalle Avenue, Ste 500
Minneapolis, MN 55402
612-376-2000
F: 612-376-2271
askamericas@aecom.com
www.aecom.com

AEC2
6901 East Fish Lake Road,
Suite 184
Maple Grove, MN 55369
763-463-5036
F: 763-463-5037
www.ae2s.com

American Ductile Iron Pipe
1501 31st Avenue North
Birmingham, AL 35207
205-307-2969
jordanbyrd@american-usa.com
www.american-usa.com

American Spiral Weld
1501 31st Avenue North
Birmingham, AL 35207
205-307-2969
jordanbyrd@american-usa.com
www.american-usa.com

Apex Engineering Group
1265 Highway 10 West - Ste 4
Detroit Lakes, MN 56501
218-844-2580
F: 701-373-7980
jon.pratt@apexenggroup.com
www.apexenggroup.com

Bergerson Caswell Inc
5115 Industrial Street
Maple Plain, MN 55359
763-479-3121 F: 763-479-2183
tim.berquam@bergersoncaswell.com
www.bergersoncaswell.com

Black & Veatch
7760 France Avenue S, Ste 1200
Minneapolis, MN 55435
952-896-0500 F: 952-831-1445
froneksd@bv.com
www.bv.com

Bolton & Menk, Inc.
1960 Premier Drive
Mankato, MN 56001
507-625-4171 F: 507-625-4177
heidist@bolton-menk.com
www.bolton-menk.com

Brown and Caldwell
30 East 7th Street, Ste 2500
St. Paul, MN 55101-2201
651-298-0710
F: 651-298-1931
dsapp@brwncald.com
www.brownandcaldwell.com

Brown and Caldwell
28205 Scippo Creek Road
Circleville, OH 43113
800-344-5770 F: 888-204-9656
sales@ceifiltration.com
www.ceifiltration.com

CEI-Carbon Enterprises Inc.
15688 Jarvis Street NW
Elk River, MN 55330
763-427-6100 F: 763-427-0533
karen.olson@ferguson.com
www.ferguson.com

ESS Brothers & Sons Inc.
9350 County Road 19
Loretto, MN 55340
763-478-2027
F: 763-478-8868
info@essbrothers.com
www.essbrothers.com

E.H. Renner & Sons, Inc.
647 Hale Avenue N
Oakdale, MN 55128
651-777-4041
F: 651-777-5312
info@engamerica.com
www.engamerica.com

FEVERSON Waterworks
1694 91st Avenue NE
Blaine, MN 55449
763-560-5200
F: 763-560-1799
karen.olson@ferguson.com
www.ferguson.com

Innovative and Sustainable
Water/Wastewater Supply, Treatment, Reclamation, and Reuse

TKDA
Engineering | Architecture | Planning
Visit tkda.com or call 800.247.1714 for more information. Saint Paul | Duluth

Dixon Engineering, Inc.
5307 S. 92nd Street, Ste 125
Hales Corners, WI 53130
414-529-1859
F: 414-529-3120
joe@dioxnengineering.net
www.dixonengineering.net

Engineering America
647 Hale Avenue N
Oakdale, MN 55128
651-777-4041
F: 651-777-5312
info@engamerica.com
www.engamerica.com

Engineering America
Engineering America
647 Hale Avenue N
Oakdale, MN 55128
651-777-4041
F: 651-777-5312
info@engamerica.com
www.engamerica.com
Frontier Precision, Inc.
10900 73rd Avenue North
Maple Grove, MN 55369
763-496-1366 F: 763-898-3997
jake@frontierprecision.com
www.frontierprecision.com

Hawkins Inc.
2381 Rosegate
Roseville, MN 55113
612-331-6910 F: 612-331-5304
office.servicessupport@hawkinsinc.com
www.hawkinsinc.com

HR Green, Inc.
2550 University Avenue West, Ste 400N
St. Paul, MN 55114
651-644-4389 F: 651-544-9446
assumption@hrgreen.com
www.hrgreen.com

HydroCorp
2665 S. Moorland Road, Ste 209
New Berlin, WI 53151
800-315-4305
info@hydrocorpinc.com
hydrocorpinc.com

Hydro-Klean
333 N.W. 49th Place
Des Moines, IA 50313
515-283-0500 F: 515-283-0505
pgovoni@hydro-klean.com
www.hydro-klean.com

KLJ
360 Robert Street North,
Ste 500
St. Paul, MN 55101-1589
651-222-2176
F: 855-288-8055
www.kljeng.com

Knutson Construction
7515 Wayzata Boulevard
Minneapolis, MN 55426
763-546-1400
tfranz@knutsonconstruction.com
www.knutsonconstruction.com

Leggette, Brashears & Graham, Inc.
4 Research Drive
Shelton, CT 06404
203-944-5010 F: 203-926-9145
mkellogg@lbghq.com
www.lbgweb.com

Maguire Iron, Inc.
Box 1446
Sioux Falls, SD 57105
605-334-9749
F: 605-334-9752
info@maguireiron.com
www.maguireiron.com

M.E. Simpson Co., Inc.
3406 Enterprise Avenue
Valparaiso, IN 46383
800-255-1521 F: 888-531-2444
salesinfo@mesimpson.com
www.mesimpson.com

HyMAX®
HYMAX – created by Krausz
331 SW 57th Avenue
Ocala, FL 34474
855-457-2879 or 855-KRAUSZ
F: 352-304-5787
info@krauszusa.com
www.krauszusa.com

Knutson Construction, home of SolarBee and GridBee brands
3225 Highway 22
Dickinson, ND 58601
866-437-8076
info@medoraco.com
www.medoraco.com

Leggette, Brashears & Graham, Inc.
4 Research Drive
Shelton, CT 06404
203-944-5010 F: 203-926-9145
mkellogg@lbghq.com
www.lbgweb.com

Maguire Iron, Inc.
Box 1446
Sioux Falls, SD 57105
605-334-9749
F: 605-334-9752
info@maguireiron.com
www.maguireiron.com

M.E. Simpson Co., Inc.
3406 Enterprise Avenue
Valparaiso, IN 46383
800-255-1521 F: 888-531-2444
salesinfo@mesimpson.com
www.mesimpson.com

HyMAX®
HYMAX – created by Krausz
331 SW 57th Avenue
Ocala, FL 34474
855-457-2879 or 855-KRAUSZ
F: 352-304-5787
info@krauszusa.com
www.krauszusa.com

Knutson Construction, home of SolarBee and GridBee brands
3225 Highway 22
Dickinson, ND 58601
866-437-8076
info@medoraco.com
www.medoraco.com

Maguire Iron, Inc.
Box 1446
Sioux Falls, SD 57105
605-334-9749
F: 605-334-9752
info@maguireiron.com
www.maguireiron.com

M.E. Simpson Co., Inc.
3406 Enterprise Avenue
Valparaiso, IN 46383
800-255-1521 F: 888-531-2444
salesinfo@mesimpson.com
www.mesimpson.com

HyMAX®
HYMAX – created by Krausz
331 SW 57th Avenue
Ocala, FL 34474
855-457-2879 or 855-KRAUSZ
F: 352-304-5787
info@krauszusa.com
www.krauszusa.com
ALPHABETICAL LISTINGS

Moore Engineering, Inc.
1808 E. Fir Avenue
Fergus Falls, MN 56537
218-998-4041
F: 218-998-4042
consult@mooreengineeringinc.com
www.mooreengineeringinc.com

Northwestern Power Equipment Co., Inc. (NWPE)
PO Box 131180, 2740 Patton Road
Roseville, MN 55113
651-628-0683 F: 651-628-0753
rshannon@nwpeco.com
www.nwpeco.com

Pittsburg Tank & Tower Maintenance Co.
PO Box 913
Henderson, KY 42419
270-826-9000 F: 270-831-7025
vcaudill@pttmco.com
www.watertank.com

Prinsco
1717 16th Street NE
Willmar, MN 56201
800-992-1725
F: 320-222-6820
prinscoinfo@prinsco.com
www.prinsco.com

Progressive Consulting Engineers, Inc.
6120 Earle Brown Drive, Suite 629
Minneapolis, MN 55422
763-560-9133 F: 763-560-0333
pce@pce.com
www.pce.com

Sensus
8601 Six Forks Road, Ste 700
Raleigh, NC 27615
800-638-3748
chance.curtis@sensus.com
www.sensus.com

Short Elliott Hendrickson Inc. (SEH)
3535 Vadnais Center Drive
St. Paul, MN 55110
651-490-2000
F: 888-908-8166
mjensen@sehinc.com
www.sehinc.com

Stantec Consulting Services
2335 Highway 36 West
St. Paul, MN 55113
651-636-4600
F: 651-636-1311
info@stantec.com
www.stantec.com

TGO Technologies
3471 Regional Parkway Ste B
Regional Parkway
Santa Rosa, CA 95403
800-543-6603
sales@tgotech.com
www.tgotech.com

WE ARE AN AMERICAN TRADITION

WE ARE MAGUIRE IRON

We’ve been providing communities with functional landmarks since 1915. Maguire Iron designs, fabricates, erects, paints and repairs water towers and tanks. We look forward to the next century with great pride as a family-owned American company.
FLOW CONTROL DIVISION

Customer-focused, timely solutions, every time

Capabilities include:

- Expanded warehouse capacity
- Large volume of valve and actuator inventory
- Complete electric & pneumatic automation facility
- Ability to automate any brand or style of valve or gate
- Full field retrofit capability
- Custom valve adaption and extension fabrication
- Pipeline surge analysis
- Fully staffed field service department for start-up services, installation assistance and field troubleshooting/repair.

We are excited about our changes and are eager to share them with you!

Contact us today at (952) 941-2678 or valves@vessco.com

Valves Made in Minnesota

Rugged actuators, Leading technology

Customer driven, by design
Remembering One of St. Peter’s Finest

Bolton & Menk, Inc. co-founder, Martin Clarence Menk, Jr., died on Thursday, March 24, 2016 at the age of 92.

In 1949 Martin co-founded Bolton & Menk, Civil Engineers & Land Surveyors, with his friend and former professor, John Bolton. In 1965, John retired and Martin became company president. When he retired in 1992, the company had five offices in two states and 85 employees. Today the firm has over 400 employees serving some 225 communities in three states from 15 offices.

Martin served with distinction in many professional associations and boards, both at the state and national levels, including: MN Land Surveyors Association, MN Society of Professional Engineers, City Engineers Association of MN, National Society of Professional Engineers, National Society of Professional Surveyors, and the American Congress on Surveying and Mapping.

Schools in Session: A Recap of Recent Training Opportunities and Workshops

Jeanette Boothe, Minnesota Department of Health

Southeast District Water Operator School
There were 107 attendees on hand for the Water Operator School (March 9 – 11) at the Kahler Apache Hotel in Rochester, MN. Keynote speaker Dr. Michael Monroe Keifer, PhD, delivered a presentation that was enjoyed by all. Other topics of discussion included drones, cybersecurity, line tracing, and getting turkey vultures to stay off the water towers. On the last day of the school the classes were moved to Minnesota Pipe for some hands-on sessions and demonstrations. Twenty-six people took the exam on March 11. As always, the vendor show was a success, and they helped raise over $900 for Water For People.

There will be a fall one-day school at Cabela’s again this year. No date has been set yet. Next year’s spring school will again be at the Kahler Apache Hotel in Rochester in March.

Advanced Treatment Technology Workshop
New this year, this one-day workshop focused on lime softening treatment. Joe Dusek from the city of Eden Prairie was the idea person on this and put it together. Fifty attendees gathered at the April 4 event, held at the Ramada Park Plaza Hotel in Minneapolis; evaluations showed this workshop was a success!

Metro District Water Operator School
There were 218 registered for this school, held at the Ramada Plaza Hotel in Minneapolis (April 5 – 7). Our keynote speaker was Ron Schara from Minnesota Bound. The audience enjoyed his stories of hunting and fishing. The off-site tours this year were to Waterous, St. Anthony Laboratory, the Minneapolis Ultrafiltration Plant, and Target Field. All the tours were well attended. During the vendor show raffle tickets were sold for door prizes and for prizes that will be given away at the Water for People concert on Saturday, April 30. Over $300 was raised. In the afternoon of April 7 there were 52 people who took an exam.

Next year the school will be Monday, April 3 to Wednesday, April 5, 2017. It will be held at the Earle Brown Heritage Center in Brooklyn Center.

Southwest District Water Operator School
The spring water operator school was held at the Redwood Area Community Center in Redwood Falls on Thursday, April 14. There were 89 attendees this year, which is the highest number this school has had in many, many years. Some of the topics presented included drones, hydrant maintenance, leak detection, and well maintenance. Fairmont won the water taste test. Seven people took a certification exam. The next water operator school in this district will be August 31 in Mankato.
Professional Directory

---

**KATIE RENNER WELLE**
Project Manager
Submersible & Lineshaft Turbine Sales & Service

**E.H. Renner & Sons**
INCORPORATED
WELL DRILLING FOR FIVE GENERATIONS

15688 Jarvis Street N.W. • Elk River, MN 55330

---

**THEIN WELL COMPANY**
OVER 115 YEARS OF EXCELLENCE

- Water Well Drilling
- Well & Pump Service & Installation
- Well & Pump Repair
- Well Abandonment
- Well Redevelopment
- Well Televising

www.theinwell.com
(800) 450-8000

---

**PCE PROGRESSIVE CONSULTING ENGINEERS, INC.**
- Civil Engineering
- Water Treatment
- Water Supply
- Rate Studies

(763) 560-9133
(763) 560-0333 Fax pce@pce.com
6120 Earl Brown Drive, Suite 629
Minneapolis, MN 55430

---

**M.E. SIMPSON Co., Inc.**
Asset Management • Water Loss Control • Water Quality
www.mesimpson.com • 1.800.255.1521

---

**WATER SYSTEM SPECIALISTS**

---

Visit us online at www.mnawwa.org
KNUTSON HAS THE KNOWLEDGE & EXPERIENCE TO DELIVER A STATE-OF-THE-ART FACILITY

FOR MORE INFORMATION, PLEASE CONTACT:
John Lewis, Senior Project Manager
e: jlewis@knutsonconstruction.com
p: 763.546.1400

KNUTSON HAS THE KNOWLEDGE & EXPERIENCE TO DELIVER A STATE-OF-THE-ART FACILITY

FOR MORE INFORMATION, PLEASE CONTACT:
John Lewis, Senior Project Manager
e: jlewis@knutsonconstruction.com
p: 763.546.1400

PROVEN POWER SOLUTIONS
Sales. Service. Rental.
- Prime, standby, and emergency power
- Diesel, natural gas, and low BTU gas
- Mobile and stationary units
- Fuel analysis and switchgear maintenance
- Emergency services available 24/7/365
- Preventive maintenance programs available on all makes

Shakopee, MN
8050 County Road 101 East
888.320.4292

HRGreen
LET’S TALK WATER
Providing the services communities need for more than a century.

TRANSPORTATION + WATER + GOVERNMENTAL SERVICES
LAND DEVELOPMENT + ENERGY + CONSTRUCTION

WWGOETSCH ASSOCIATES, INC.
PUMP AND MOTOR SALES AND SERVICE

SALES
- Aurora
- Fairbanks Morse
- Hydromatic
- Layne/Verti-Line
- Goulds Vertical Turbine
- Grundfos

SERVICE
- All makes and models of pumps, motors and controls
- Motor rewinding
- Surge testing
- Fully equipped service centers
- Fully equipped service trucks
- Preventive maintenance contracts

800-831-7914

(952) 831-4340 • (952) 831-7914 • (952) 831-2357 fax
5250 West 74th Street, Minneapolis, MN 55439

(218) 829-6890 • (218) 829-6972 fax
7674 College Road, Ste. 105, Baxter, MN 56425

Click HERE to return to Table of Contents
To reach water professionals through *Breeze* magazine and its targeted readership, contact Darrell at your earliest convenience to discuss your company’s promotional plans for 2016.

**Ad Index**

The *Breeze* would not be possible without the advertising support of the following companies and organizations. Please think of them when you require a product or service.

<table>
<thead>
<tr>
<th>Company</th>
<th>Page</th>
<th>Phone Number</th>
<th>Web Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACIPCO</td>
<td>14, 18</td>
<td>205-325-7701</td>
<td><a href="http://www.american-usa.com">www.american-usa.com</a></td>
</tr>
<tr>
<td>AE2S</td>
<td>23</td>
<td>701-364-9111</td>
<td><a href="http://www.ae2s.com">www.ae2s.com</a></td>
</tr>
<tr>
<td>AECOM</td>
<td>44</td>
<td>612-376-2000</td>
<td><a href="http://www.aecom.com">www.aecom.com</a></td>
</tr>
<tr>
<td>Apex Engineering Group</td>
<td>37</td>
<td>701-373-7980</td>
<td><a href="http://www.apexengineering.com">www.apexengineering.com</a></td>
</tr>
<tr>
<td>Bergecon-Caswell, Inc.</td>
<td>42</td>
<td>763-479-3121</td>
<td><a href="http://www.bergeconcaswell.com">www.bergeconcaswell.com</a></td>
</tr>
<tr>
<td>Black &amp; Veatch Corporation</td>
<td>16</td>
<td>952-890-0500</td>
<td><a href="http://www.tv.com">www.tv.com</a></td>
</tr>
<tr>
<td>Bolton &amp; Menk, Inc.</td>
<td>17</td>
<td>507-625-4171</td>
<td><a href="http://www.bolton-menk.com">www.bolton-menk.com</a></td>
</tr>
<tr>
<td>Brown and Caldwell</td>
<td>14</td>
<td>800-727-2224</td>
<td><a href="http://www.brownandcaldwell.com">www.brownandcaldwell.com</a></td>
</tr>
<tr>
<td>CEI Carbon Enterprises, Inc.</td>
<td>13</td>
<td>800-344-5770</td>
<td><a href="http://www.ceifiltration.com">www.ceifiltration.com</a></td>
</tr>
<tr>
<td>Dixon Engineering, Inc.</td>
<td>18</td>
<td>800-998-5488</td>
<td><a href="http://www.dixonengineering.net">www.dixonengineering.net</a></td>
</tr>
<tr>
<td>E.H. Renner &amp; Sons</td>
<td>52</td>
<td>763-427-6100</td>
<td><a href="http://www.ehrenner.com">www.ehrenner.com</a></td>
</tr>
<tr>
<td>Engineering America</td>
<td>2</td>
<td>651-777-4041</td>
<td><a href="http://www.engamerica.com">www.engamerica.com</a></td>
</tr>
<tr>
<td>Esi Brothers and Sons Inc.</td>
<td>49</td>
<td>763-478-2027</td>
<td><a href="http://www.esisystems.com">www.esisystems.com</a></td>
</tr>
<tr>
<td>Ferguson Waterworks</td>
<td>10</td>
<td>612-850-9405</td>
<td><a href="http://www.fergusonwaterworks.com">www.fergusonwaterworks.com</a></td>
</tr>
<tr>
<td>Frontier Precision</td>
<td>13</td>
<td>877-698-3077</td>
<td><a href="http://www.precisionmapping.com">www.precisionmapping.com</a></td>
</tr>
<tr>
<td>General Repair Service</td>
<td>28</td>
<td>800-767-5151</td>
<td><a href="http://www.generallrepair.com">www.generallrepair.com</a></td>
</tr>
<tr>
<td>Hawkins, Inc.</td>
<td>47</td>
<td>612-331-6910</td>
<td><a href="http://www.hawkinsinc.com">www.hawkinsinc.com</a></td>
</tr>
<tr>
<td>HD Supply Waterworks</td>
<td>55</td>
<td>952-937-9666</td>
<td><a href="http://www.watertools.hdsupply.com">www.watertools.hdsupply.com</a></td>
</tr>
<tr>
<td>HR Green, Inc.</td>
<td>53</td>
<td>800-728-7805</td>
<td><a href="http://www.hrgreen.com">www.hrgreen.com</a></td>
</tr>
<tr>
<td>HydroCorp</td>
<td>26</td>
<td>800-315-4305</td>
<td><a href="http://www.hydrocorpinc.com">www.hydrocorpinc.com</a></td>
</tr>
<tr>
<td>Hydro-Klean</td>
<td>22</td>
<td>515-283-0500</td>
<td><a href="http://www.hydro-klean.com">www.hydro-klean.com</a></td>
</tr>
<tr>
<td>Jasper Engineering &amp; Equipment Co.</td>
<td>42</td>
<td>952-938-6504</td>
<td><a href="http://www.jaspereng.com">www.jaspereng.com</a></td>
</tr>
<tr>
<td>KLJ</td>
<td>6</td>
<td>800-213-3860</td>
<td><a href="http://www.kljeng.com">www.kljeng.com</a></td>
</tr>
<tr>
<td>Knutsen Construction</td>
<td>53</td>
<td>763-525-3038</td>
<td><a href="http://www.knutsonconstruction.com">www.knutsonconstruction.com</a></td>
</tr>
<tr>
<td>Krausz</td>
<td>7</td>
<td>855-457-2879</td>
<td><a href="http://www.krauszusa.com">www.krauszusa.com</a></td>
</tr>
<tr>
<td>Leggette, Brashers &amp; Graham, Inc.</td>
<td>52</td>
<td>651-490-1405</td>
<td><a href="http://www.lbgroup.com">www.lbgroup.com</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Company</th>
<th>Page</th>
<th>Phone Number</th>
<th>Web Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.E. Simpson Co., Inc.</td>
<td>52</td>
<td>800-255-1521</td>
<td><a href="http://www.mesimpson.com">www.mesimpson.com</a></td>
</tr>
<tr>
<td>Maguire Iron</td>
<td>48</td>
<td>605-334-9749</td>
<td><a href="http://www.maguireiron.com">www.maguireiron.com</a></td>
</tr>
<tr>
<td>McCarthy Well Company</td>
<td>19</td>
<td>888-854-5333</td>
<td><a href="http://www.mccarthywell.com">www.mccarthywell.com</a></td>
</tr>
<tr>
<td>Medora Corporation (SolarBee and GridBee brands)</td>
<td>3</td>
<td>866-437-8076</td>
<td><a href="http://www.medora.com">www.medora.com</a></td>
</tr>
<tr>
<td>Mettering and Technology Solutions</td>
<td>30</td>
<td>877-398-0450</td>
<td><a href="http://www.metteringandtechnology.com">www.metteringandtechnology.com</a></td>
</tr>
<tr>
<td>Mid-America Meter Inc.</td>
<td>52</td>
<td>800-324-0385</td>
<td><a href="http://www.midamericameter.com">www.midamericameter.com</a></td>
</tr>
<tr>
<td>Moore Engineering Inc.</td>
<td>56</td>
<td>701-282-4092</td>
<td><a href="http://www.mooreengineering.com">www.mooreengineering.com</a></td>
</tr>
<tr>
<td>Northwestern Power Equipment Company</td>
<td>11</td>
<td>651-628-0683</td>
<td><a href="http://www.napaco.com">www.napaco.com</a></td>
</tr>
<tr>
<td>Pittsburg Tank &amp; Tower Maintenance Co., Inc.</td>
<td>17</td>
<td>270-826-9000</td>
<td><a href="http://www.watertank.com">www.watertank.com</a></td>
</tr>
<tr>
<td>Prinsco</td>
<td>23</td>
<td>320-222-6800</td>
<td><a href="http://www.prinsco.com">www.prinsco.com</a></td>
</tr>
<tr>
<td>Progressive Consulting Engineers, Inc.</td>
<td>52</td>
<td>763-560-9133</td>
<td><a href="mailto:pce@pce.com">pce@pce.com</a></td>
</tr>
<tr>
<td>Sensus</td>
<td>4</td>
<td>763-856-0110</td>
<td><a href="http://www.sensus.com">www.sensus.com</a></td>
</tr>
<tr>
<td>Short Elliott Hendrickson Inc.</td>
<td>35</td>
<td>651-400-2030</td>
<td><a href="http://www.sehi.com">www.sehi.com</a></td>
</tr>
<tr>
<td>Stantec</td>
<td>9</td>
<td>651-636-4600</td>
<td><a href="http://www.stantec.com">www.stantec.com</a></td>
</tr>
<tr>
<td>T&amp;G Technologies, Inc.</td>
<td>52</td>
<td>800-543-6603</td>
<td><a href="http://www.t&amp;gtech.com">www.t&amp;gtech.com</a></td>
</tr>
<tr>
<td>Thelin Well Company</td>
<td>52</td>
<td>800-450-8000</td>
<td><a href="http://www.thelinwell.com">www.thelinwell.com</a></td>
</tr>
<tr>
<td>TMDA</td>
<td>46</td>
<td>651-292-4621</td>
<td><a href="http://www.tmda.com">www.tmda.com</a></td>
</tr>
<tr>
<td>Tonka Water</td>
<td>6</td>
<td>763-559-2837</td>
<td><a href="http://www.tonkawater.com">www.tonkawater.com</a></td>
</tr>
<tr>
<td>Van Bergen &amp; Markson, Inc.</td>
<td>45</td>
<td>763-546-4340</td>
<td><a href="mailto:info@vbminc.com">info@vbminc.com</a></td>
</tr>
<tr>
<td>Vessco</td>
<td>50, 34</td>
<td>952-941-2678</td>
<td><a href="http://www.vessco.com">www.vessco.com</a></td>
</tr>
<tr>
<td>Water Conservation Services, Inc.</td>
<td>42</td>
<td>612-600-8716</td>
<td><a href="http://www.watermainleaklocator.com">www.watermainleaklocator.com</a></td>
</tr>
<tr>
<td>W. W. Goetsch Associates, Inc.</td>
<td>53</td>
<td>952-831-4340</td>
<td><a href="mailto:info@wgoetsch.com">info@wgoetsch.com</a></td>
</tr>
<tr>
<td>Widesler Smith Netling</td>
<td>42</td>
<td>218-829-5117</td>
<td><a href="http://www.wideslerwater.com">www.wideslerwater.com</a></td>
</tr>
<tr>
<td>WSB &amp; Associates, Inc.</td>
<td>22</td>
<td>763-541-4800</td>
<td><a href="http://www.wsbnetling.com">www.wsbnetling.com</a></td>
</tr>
<tr>
<td>Ziegler Power Systems</td>
<td>53</td>
<td>888-330-4292</td>
<td><a href="http://www.zieglercat.com/power">www.zieglercat.com/power</a></td>
</tr>
</tbody>
</table>

---

**Darrell Harris**, Marketing Manager  
Ph: 1-877-985-9793  
Fax: 1-866-985-9799  
darrell@kelman.ca
You can count on HD Supply Waterworks to “make good” on our promise to deliver high-quality products and the most experienced and knowledgeable staff to solve your toughest projects.

SERVING THE GREAT STATE OF MINNESOTA

📍 EDEN PRAIRIE
15800 West 79th St.
952-937-9666

📍 ST MICHAEL
16195 54th Street N.E.
763-428-7473

📍 HUDSON, WI
637 Commerce Dr.
715-386-6010

SPECIALIZING IN WATER METERING SOLUTIONS

- Fire Hydrants
- Mechanical Joint Fittings
- Ductile Iron Pipe
- Gate Valves
- Manhole Rings & Covers
- Backflow Prevention Water Service
- Material Repair Products
- Meter Boxes
- Storm Drains
- Treatment Plant
- Meters
- AMR/AMI Technology
Building a sustainable future

One gallon at a time

Communities like Hector know that clean drinking water is essential to growth and prosperity. Moore brings decades of experience to help improve residents’ quality of life.

Minnesota | Fergus Falls
North Dakota | Bismarck · Minot · West Fargo

Talk to one of our water experts today.

mooreengineeringinc.com
consult@mooreengineeringinc.com
218.998.4041