

# ServiceLine

The Official Publication of the South Dakota Association of Rural Water Systems

## 2023 ATC RECAP

## IT'S TIME TO TALK PFAS

## SDARWS CIRCUIT RIDER JOB OPENING (PAGE 10)

## WINTER LAGOON OPERATIONS

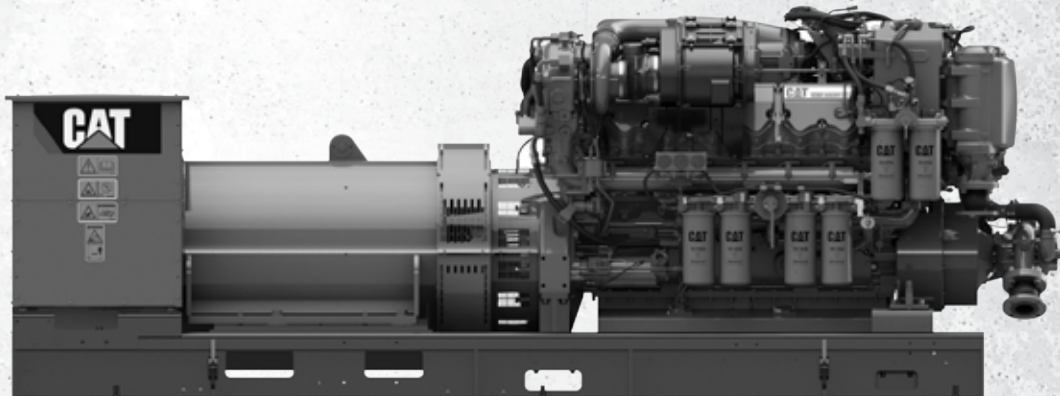
2023 EXPO  
APRIL 26-27  
RAPID CITY

FISHING  
TOURNAMENT  
APRIL 28-29

NEW SDARWS  
MEMBERSHIP  
PORTAL

# WHEN YOU NEED POWER, WE ARE THERE FOR YOU

*NEW OR USED, ANY SIZE OR SHAPE, IN ANY REGULATORY ENVIRONMENT*



877.365.8114 | BUTLERMACHINERY.COM

Butler 

**Bartlett  
& West**

## Engineering water solutions for community growth.

Clean, safe and reliable water is a basic building block of a modern community. Residents and industry depend on your system. You need proactive communications regarding system needs and innovative, comprehensive solutions. As a national leader with long-time relationships in water-focused services, Bartlett & West is your ally for success.

5900 S. Western Ave., Ste. 101 ■ Sioux Falls, SD  
(888) 200-6464 ■ [www.bartlettwest.com](http://www.bartlettwest.com)



# IN THIS ISSUE



- 5** From The SDARWS President
- 6** New Certification Class Registration Site
- 7** Operator Certification Training Class And Exam Schedule
- 9** SDARWS Staff Directory
- 10** SDARWS Circuit Rider Job Opening
- 13** Manage Your Membership on Our New Online Portal
- 15** 2023 EXPO Call for Papers
- 16** 2023 ATC Recap
- 21** 2023 ATC Award Winners
- 25** Smoke Testing: How it Can Help Your Community
- 27** It's Time to Talk PFAS
- 29** A Four Letter Word
- 31** Winter Lagoon Operations
- 33** SDARWS Conferences And Events
- 34** Neighbors Helping Neighbors
- 35** Certification Questions
- 37** Fishing Tournament Information
- 38** "Get the Lead Out" Partnership

## SDARWS CORPORATE PARTNERS

Marsh & McLennan Agency, Inc.  
 Risk Administration Services  
 Dakota Pump & Control  
 Dakota Supply Group  
 Treatment Resources, Inc.  
 Banner Associates  
 Bartlett & West, Inc.  
 DGR Engineering  
 Maguire Iron, Inc.  
 Core and Main  
 Dakota Pump Inc.  
 CoBank  
 Milbank WinWater  
 AE<sub>2</sub>S  
 ISG  
 Brosz Engineering  
 Hawkins  
 Respec  
 Jetline Sales & Service

**Cover Photo: Winterizing a Curb Stop at Lake Herman State Park. Photo credit Jennifer Bame**

ServiceLine is published bi-monthly by the South Dakota Association of Rural Water Systems. The contents of this publication may not be reproduced by any means, in whole or in part, without the prior written consent of SDARWS. SDARWS reserves the right to reject or edit any manuscripts received for publication. All submissions become the property of the South Dakota Association of Rural Water Systems unless otherwise specifically stated in this publication. Statements of fact and opinion are the responsibility of the authors alone and do not imply an opinion on the part of the South Dakota Association of Rural Water Systems. Advertisements and editorials do not represent official policies of the Association. Acceptance of advertising by SDARWS does not constitute endorsement of the advertiser, its products or services, nor does SDARWS make any claims or guarantees as to the accuracy or validity of advertisers' claims.

To submit editorial or advertising content, or to update your mailing information, please contact Jennifer Bame at 605-556-7219 or email [jbame@sdarws.com](mailto:jbame@sdarws.com).

**SOUTH DAKOTA ASSOCIATION OF RURAL WATER SYSTEMS**

P.O. Box 287, Madison, SD 57042 • Phone 605-556-7219, Fax 605.556.1497 • email: [info@sdarws.com](mailto:info@sdarws.com) • [www.sdarws.com](http://www.sdarws.com)  
 Copyright 2023

# Winwater™

COMPANY

**S. Hwy. 15 • P.O. Box 350  
Milbank, SD 57252  
1-800-743-2972  
Fax 605-432-5447**

*Large enough to handle any job,  
but small enough to care about yours.*

- WATER PRODUCTS
- INDUSTRIAL PIPING
- WATER METER SYSTEMS
- PUMP SYSTEMS
- GEO TEXTILE FABRIC
- ROAD CASTINGS



**QUALITY  
ENGINEERING  
SOLUTIONS FOR  
RURAL WATER  
PROJECTS**

MASTER PLANNING  
ASSET MANAGEMENT  
HYDRAULIC MODELING  
CAPACITY ANALYSIS  
STORAGE RESERVOIRS  
PUMPING STATIONS  
PIPELINES  
TREATMENT FACILITIES  
CONSTRUCTION SERVICES

MITCHELL, PIERRE, SIOUX FALLS, STURGIS  
SOUTH DAKOTA  
[broszeng.com](http://broszeng.com)

**Brosz**  
ENGINEERING, INC.



# FROM THE SDARWS PRESIDENT

RON GILLEN, SDARWS PRESIDENT

## 2023 ATC RECAP

We had a wonderful ATC this past January in Pierre at the Ramkota Hotel & Convention Center. We would like to thank all of those who attended and participated in all the various aspects of our conference. Without all of your support, this conference would not be possible. We would especially like to thank all of our conference sponsors: Premiere Sponsor – AE<sub>2</sub>S; Educational Session Sponsor – Bartlett & West; Awards Luncheon Sponsor – DGR Engineering; Legislative Breakfast Sponsor – Brosz Engineering; Break Table Sponsor – Butler Machinery; Keg Sponsors – AE<sub>2</sub>S, Direct Automation, DN Tanks, and Northwest Pipe Fittings; Wine Sponsor – Risty Benefits; Bag Sponsor Metering & Technology Solutions; Lanyard Sponsor – Banner Engineering; Meter Challenge Sponsors: Metering & Technology Solutions, Ferguson Waterworks, and Mueller. Check out page 16 for the recap. I would also like to thank all of our exhibitors (full list on page 19) – without you, our event would not be possible.

## WEST RIVER EXPO

South Dakota Rural Water is pleased to host the 2023 Rural Water EXPO April 26-27. The EXPO will be held at the Best Western Ramkota Hotel & Convention Center in Rapid City, SD.

The EXPO is open to all water and wastewater utility staff, board/council members, engineers, State and Federal employees. The training will consist of twenty presentations, 30 minutes each, thus allocating ten contact hours for those individuals who are licensed operations specialists. Along with the training sessions, the EXPO will showcase many of our industry's manufacturer and supplier leaders.

These professional companies will be set up in the main EXPO training center for attendee easy access and to provide answers to those pressing questions. Many will be displaying the recent advances in technology our industry has witnessed over the past several years.

This year's EXPO will kick off at 8:00 am Wednesday and conclude at noon on Thursday, with lunch provided on the first day. Registration is \$100, and SDARWS is able to bill for this fee after the conference. Please pre-register by visiting our website at: [sdarws.com/EXPO](http://sdarws.com/EXPO).

## FISHING TOURNAMENT

The Rural Water Warriors are hosting the Annual Rural Water Fishing Tournament April 28-29th at the Outpost Lodge on Cow Creek Bay in Pierre. This tournament is limited to the first 40 teams of 2-3 fishermen, and is open to current water/wastewater, associate, or corporate members of SDARWS. The cost is \$150/team and includes lunch. Room reservations at the Outpost Lodge need to be made by March 1, 2023. The registration deadline is April 26, 2023. More information can be found online at [sdarws.com/FISHING](http://sdarws.com/FISHING), or check out page 37 of this issue of *ServiceLine*. 💧

## DID YOU KNOW?

Quality On Tap! was created by NRWA in 1996 as the first practical, hands-on guide to better public relations for water utilities. Today, the QOT logo can be found around rural America on water towers and utility vehicles, spreading awareness to turn on the tap.

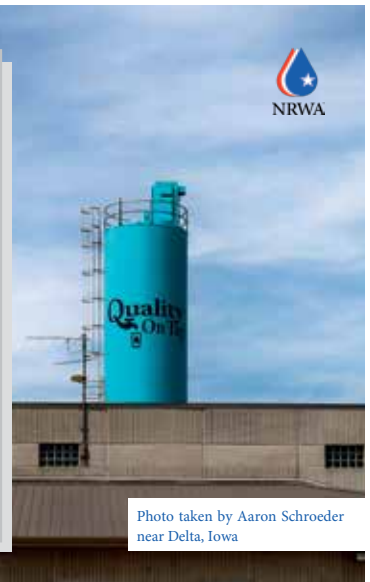


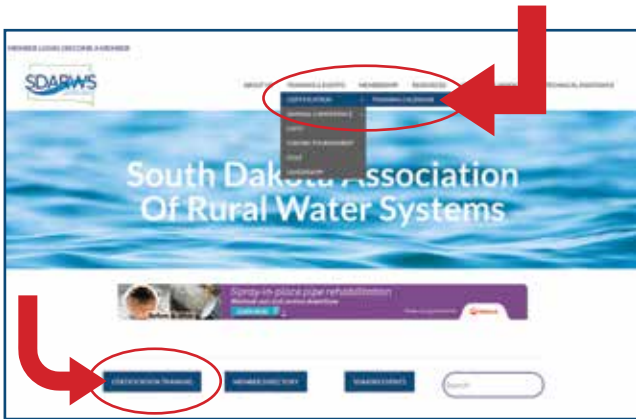
Photo taken by Aaron Schroeder near Delta, Iowa

# REGISTER FOR SDARWS CERTIFICATION CLASSES

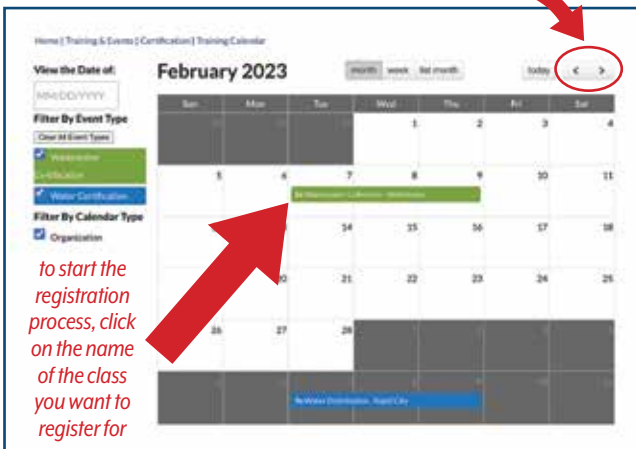
The South Dakota Association of Rural Water Systems has upgraded to a new website and class registration software. This move will allow us to better track class attendees and certification hours.

## 1. Navigate to **SDARWS.COM**

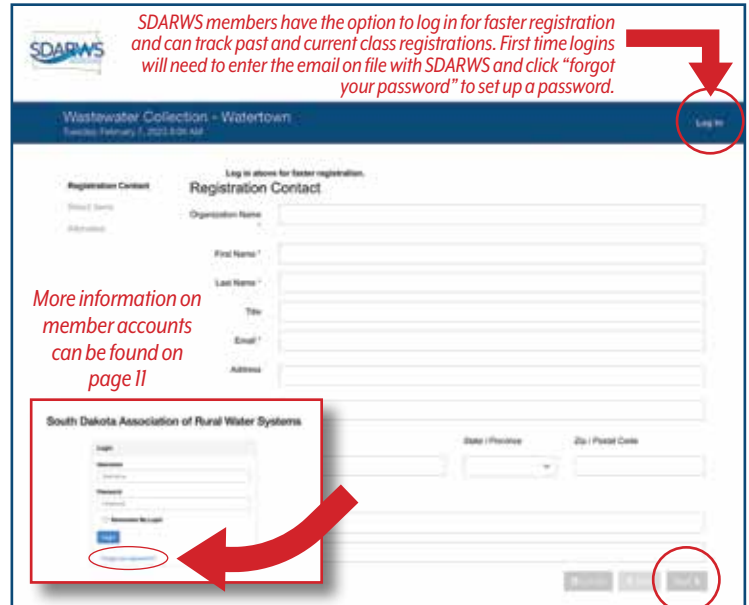
- Bring your cursor to the **TRAINING & EVENTS** header, and hover over **CERTIFICATION** and you'll see **TRAINING CALENDAR** pop up
- or click on the **CERTIFICATION TRAINING** button
- or navigate to **WEB.SDARWS.COM/EVENTS**



## 2. Browse for classes by clicking on the arrows to navigate the calendar



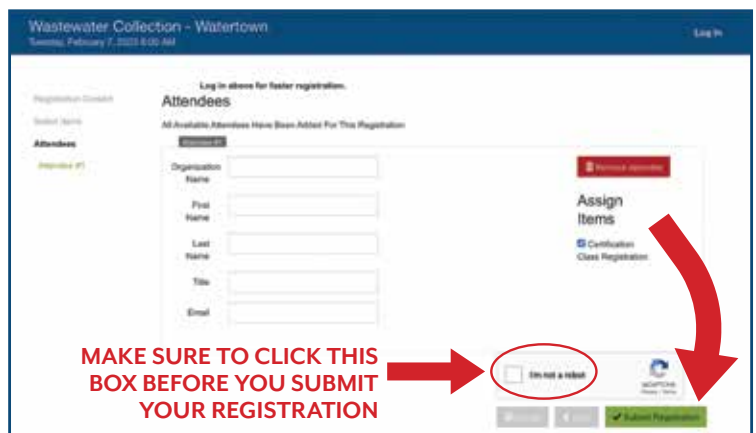
## 3. Fill out the form with the name and information of the person filling out the form, and click **NEXT**



## 4. In the quantity box, enter the number of people you are registering for this class, and then click **NEXT**



## 5. Fill out the information for each attendee. Make sure to click the **I AM NOT A ROBOT** button, and then click the green **SUBMIT REGISTRATION** button. An email confirmation with registration details will be sent to each email address provided during the registration process.





# OPERATOR CERTIFICATION TRAINING AND EXAMS

Course Name	Date	Location
Wastewater Collection	February 7-9, 2023	Watertown Ramkota
Water Distribution	March 7-9, 2023	Rapid City Ramkota - Rushmore Room
Basic Water Treatment	March 21-23, 2023	Watertown Ramkota
Basic Wastewater Treatment	April 4-6, 2023	Sioux Falls Ramkota - Harvest Room
Small Water Treatment Workshop	April 25, 2023	Rapid City Ramkota
Intermediate Water Treatment	May 2-4, 2023	Aberdeen Ramkota
Advanced Water Treatment	May 23-25, 2023	Rapid City Ramkota - Rushmore Room
Stabilization Pond Workshop	June 1, 2023	Huron - Huron Events Center

*Classes start at 8:00 AM Tuesday through Thursday. Classes end at approximately 4:30 PM on Tuesday and Wednesday, and noon on Thursday. One-day Workshops start at 8:00 AM and end at 4:30 PM.*

## EXAM DATES AND INFORMATION

- **February 9 @ 1:00 PM - Watertown Ramkota**
- **March 9 @ 1:00 PM - Rapid City Ramkota**
- **March 23 @ 1:00 PM - Watertown Ramkota**
- **April 6 @ 1:00 PM - Sioux Falls Ramkota**
- **May 4 @ 1:00 PM - Aberdeen Ramkota**
- **May 25 @ 1:00 PM - Rapid City Ramkota**

All exams cost \$60.00 and must be taken “in-person.”

Any exam can be taken at an exam session. You can take more than one exam at an exam session; however, the exam session remains at three hours long.

All exam applications are due no later than two weeks prior to the exam date.

Questions regarding exams can be directed to Tammie Hill with DANR at 605-773-3577.

### DANR Operator Certification website:

[danr.sd.gov/OfficeOfWater/OperatorCert/default.aspx](http://danr.sd.gov/OfficeOfWater/OperatorCert/default.aspx)

*The Stabilization Pond class deals strictly with ponds/lagoons and is the best class for preparing to take the Small WW Exam. The Basic WW Treatment class deals with all types of wastewater treatment other than ponds/lagoons and is the best class for preparing to take the Class I WW Treatment exam. Small Systems that use ponds/lagoons for treatment*

*can come into compliance with the Operator Certification Law by passing either the Small WW System exam or the Class I WW Treatment Exam.*

*Water systems serving less than 500 individuals and use wells as its source can come into compliance by passing the Small Water Treatment exam. Larger systems must pass the Class I Water Treatment exam or higher depending on the facility classification.*

## STUDY MATERIALS

DANR has water exam study material to lend to operators. These include manuals from California State:

- *Water Distribution System Operation and Maintenance*
- *Small Water System Operation and Maintenance*

## TRAINING CLASSES

Certification Training Classes are conducted by the South Dakota Association of Rural Water Systems. **These classes are presented at no charge.** Certified Operators can obtain contact hours for attending all of the above classes.

For more information on certification training classes, please contact Bill Thorson at 605-556-7219 (office) or 605-201-0170 (cell).

### Register for training classes online at:

[web.sdarws.com/events](http://web.sdarws.com/events)

**For Study materials, visit: [www.abccert.org/testing\\_services/ExamReferences.asp](http://www.abccert.org/testing_services/ExamReferences.asp)**

**REGISTER FOR CLASSES ONLINE: [web.sdarws.com/events](http://web.sdarws.com/events)**



engineering  
a better  
community

water | wastewater

Mni Wasté Water Supply Project | Cheyenne River Sioux Reservation | North Central SD

Brookings | Sioux Falls | Vermillion | Rapid City | Milbank  
605.692.6342 | Toll Free 1.855.323.6342  
www.bannerassociates.com

**BANNER**  
engineering a better community

# DAKOTA PUMP

## WATER PUMP STATIONS

- Modular Water Booster Stations
- Grade Mounted Water Booster Stations
- Water Booster Pump Stations
- Water Control Vaults

## WHY PREFABRICATED?

- Fully Factory Tested
- Ease of Installation
- Simplified Design
- Single Source Responsibility

## SEWAGE PUMP STATIONS

- Wet Well Mounted Lift Stations
- Flood Suction Lift Stations
- Self-Priming Lift Stations
- Obround Package Pump Stations

## PROACTIVE PUMP STATION SALES, MAINTENANCE AND INSPECTION

WE PROVIDE  
SOLUTIONS  
BUILT ON  
RELATIONSHIPS

## DAKOTA PUMP OFFICES

### MITCHELL

25524 413th Ave, Mitchell, SD 57301  
MAIN 605.996.6636 | CELL 605.770.9371

### RAPID CITY

12065 Quaal Rd, #99, Black Hawk, SD 57718  
MAIN 605.996.6636 | CELL 605.430.2862

### WATERTOWN (K&P PUMPS)

800 33rd St SW, Watertown, SD 57201  
MAIN 605.753.0072 | CELL 605.881.1586

PROACTIVE PUMP STATION SALES, MAINTENANCE AND INSPECTION | VISIT [DAKOTAPUMP.COM](http://DAKOTAPUMP.COM)



# SDARWS STAFF DIRECTORY



**KURT PFEIFLE**

*Executive Director*

kpfeifle@sdarws.com  
605-204-0125



**MIKE MOELLER**

*Technical Assistance  
Training Specialist*

mmoeller@sdarws.com  
605-270-4989



**JEREMIAH CORBIN**

*Field Program Supervisor*

jcorbin@sdarws.com  
605-270-3894



**PAUL DORWART**

*Technical Assistance  
Training Specialist*

pdowart@sdarws.com  
605-201-9568



**ROBYN BROTHERS**

*Office Manager*

rbrothers@sdarws.com  
605-556-7219



**ALLEN KOCMICH**

*East River Circuit Rider*

akocmich@sdarws.com  
605-201-6026



**JENNIFER BAME**

*Communications &  
Marketing Coordinator*

jbame@sdarws.com  
605-556-7219



**WYATT HIX**

*West River Circuit Rider*

whix@sdarws.com  
605-641-4557



**STEVE ATTEMA**

*Safety Training  
Specialist*

sattema@sdarws.com  
605-270-1766



**DANNY AYERS**

*Wastewater Technician*

dayers@sdarws.com  
605-291-2299



**BILL THORSON**

*Certification Training  
Specialist*

bthorson@sdarws.com  
605-201-0170



**GLEN OLENE**

*Wastewater Technician*

golene@sdarws.com  
605-245-6488



**JEFF FOSSUM**

*Technical Assistance  
Training Specialist*

jfossum@sdarws.com  
605-201-9561



**KEVIN CHRISTENSON**

*Source Water Protection  
Specialist*

kchristenson@sdarws.com  
605-641-1923

# WE ARE HIRING!

JOIN OUR TEAM



# CIRCUIT RIDER

The Circuit Rider exists to provide technical advice and assistance to rural and small-town municipal water system operators within the state of South Dakota, and to manage the administrative affairs of the Circuit Rider Program. The Circuit Rider will be required to analyze situations, evaluate possible courses of action, make decisions, and give advice and recommendations regarding water system's operations to Association members, as well as to other users and non-members.

## ESSENTIAL FUNCTIONS:

### 1. Technical Training and Assistance

- Provide timely technical assistance, which includes all areas of operations, maintenance, management, regulations compliance, water treatment and water conservation, to rural and small-town municipal water systems under 10,000 population (unless they are an RD borrower), in eastern and central South Dakota;
- Contact and offer a minimum of 30 (360 per year), assistance contacts to water systems each month, and ensure that on-site visits cover the eastern and central geographical areas of the state;
- Resolve water system's operational and maintenance problems in compliance with the Safe Drinking Water Act, and perform technical assistance as outlined in the State Affiliates / NRWA Agreement;
- Work with the DANR to help water systems comply with Safe Drinking Water Act regulations;
- Assist those facilities that are RD funded, or might be

eligible for RD funding;

- Provide emergency response assistance to members and non-members as directed by DANR.

### 2. Administrative Duties

- Attend staff meetings as well as meetings relating to water system's environmental issues and impacts on water systems, including DANR, AWWA, and SDWWA events;
- Complete and submit required reporting in a timely fashion, including providing monthly reports to NRWA, and information regarding contacts made and problems encountered;
- Assist with Conferences, EXPOs and Seminars when needed;
- Provide SDARWS and NRWA with an annual Operating Plan.

### 3. Public Relations

- Promote positive public relations with facilities, consumers, governmental agencies, and others regarding water issues, including developing and maintaining positive working relationships with individuals from state and federal agencies. (Includes RD, DANR, EPA, IHS, BOR and NRWA.)
- Visit the state and / or district RD officials at least quarterly.
- Promote membership in SDARWS to water systems around the state.

- Develop informational articles for dissemination, including articles for the *ServiceLine Magazine*.
- Present educational talks and presentations at water-related associations or organizations.

#### 4. Education

- Continually work to maintain an awareness of changing regulations, technical knowledge and information, in order to (a) provide the best advice and assistance possible, and to (b) teach and train others in necessary skills.
- Attend NRWA in-service training sessions for the purposes of gaining an updated technical knowledge of new practices and technologies in these fields, learning new reporting features, and discussing operating plans;
- Read and study new technical standards proposed and set by public and private organizations as well as research problems facing the water industry;
- Work actively with the Field Program Supervisor on technical assistance training programs.

#### OTHER FUNCTIONS:

The Circuit Rider will work directly with all other staff members, and will coordinate the activities of the position with the Field Program Supervisor. The Circuit Rider will also have contact with the SDARWS Board of Directors, Water / Wastewater facilities, facility personnel, government personnel, elected officials, technical organizations, and industry representatives. It is expected that the Circuit Rider will continually take the initiative to improve and strengthen these relationships, and will represent the SDARWS in the most effective and professional manner possible. It is expected that the Circuit Rider will continually work together through a team approach with the other Association employees in the areas of training and technical assistance.

While this summary should provide an excellent guideline for succeeding in this position, there may be other responsibilities and tasks assigned to the Circuit Rider from time to time by the Field Program Supervisor. There may be times when the Circuit Rider will need to assist others in the completion of their duties, and assume some of their responsibilities. It is expected that the Circuit Rider will have the flexibility and willingness to adjust to these changing needs.

#### QUALIFICATIONS AND REQUIREMENTS:

##### 1. Education and Work Experience

- High school diploma, or equivalent
- Must have a Water Treatment and/or Distribution Operator's License.
- Prefer a minimum of five years' experience in the operations of water systems

##### 2. Skills, Knowledge and Abilities

- Must have a thorough understanding of the operations and maintenance of associated equipment;
- Successful candidates must have the ability to train others, either one-on-one or in a group setting;
- Must have the ability to present information, sometimes of a very technical nature, to an audience (e.g. a city council) who does not necessarily have technical training or knowledge;
- Must possess strong problem-solving abilities and communication skills;
- The Circuit Rider must be able to operate and service all equipment associated with a water system. This person will also need to operate general office equipment proficiently, including computers, keyboards, telephones, calculators, and other office-related machinery.

##### 3. Physical Capabilities

- Extensive travel time is required. Up to 75% of the Circuit Rider's time will be spent outside of the office, accessing construction sites and water systems, visiting Association member offices, and will be required to attend numerous meetings associated with the position.
- Activities will range from extended periods of traveling by vehicle, sitting at the office and at meetings to considerable motion and physical activity when visiting systems.
- Physical activity will be varied, and at times strenuous, since the primary function of this position is to provide technical assistance and training to water system operators, at their operation's facility.
- Physical activities may include occasional lifting of up to 50 or 60 pounds, climbing ladders to access systems and /or equipment, and demonstrating equipment usage.

#### NOTE:

This position description is intended to provide a fairly comprehensive and accurate description of the position, but it will not cover all aspects, details or tasks required. Other functions, responsibilities and requirements may be assigned, and this position description may be changed at the direction of the SD Association of Rural Water System at any time.

The SD Association of Rural Water System is an Equal Opportunity Employer, and will consider applicants for all positions without regard to race, color, religion, national origin, genetic information, sex, age, disability or veteran status, or any other basis prohibited by South Dakota or federal law.

In accordance with the American's with Disabilities Act, the SD Association of Rural Water System will consider reasonable accommodations for qualified individuals with disabilities.

**TO APPLY:** email your resume to Jeremiah Corbin at [jcorbin@sdarws.com](mailto:jcorbin@sdarws.com)



# Trusted. Professional. Solutions.

At DGR Engineering, we know about water and its vital role in everyday life. After all, we've been working in the industry since 1952. We provide our clients with solutions they can trust, covering all types of water services from supply, treatment, storage and distribution, to wastewater treatment, collection, and sewer rehab.

Call us today to discuss solutions for your next project.

**DGR**  
ENGINEERING

Sioux Falls, SD  
Rock Rapids, Sioux City  
and Sioux Center, IA  
**800-446-2531**

    
[dgr.com](http://dgr.com)



## COMMITTED TO MAKING YOUR WORKPLACE SAFER

We're more than a workers' compensation insurance policy provider. We're your partner in driving injury prevention.

RAS has been the endorsed Work Comp carrier for the SD Rural Water Association for over 10 years.

**RAS**  
RISK ADMINISTRATION SERVICES, INC.

**Our association agency partner:**

Justin Overman  
Marsh & McLennan Agency, LLC  
605.339.3874

[RASCompanies.com](http://RASCompanies.com)  
800.732.1486

# MANAGE YOUR MEMBERSHIP ON OUR NEW ONLINE PORTAL

Our new website is powered by MemberClicks by Personify, the association industry's most powerful Association Management Software system. Our website offers many self-service and exclusive benefits that only members and/or their employees can take advantage of. To ensure only members receive these benefits, these areas of our site require a valid log in. This guide will teach you how to log in and update your information, as well as take advantage of as many benefits as possible. The more you update and personalize your membership, the more value you will receive from us!



## WHAT CAN I DO ON THE ONLINE PORTAL?

- Update your contact information (plus organization information if you're the main contact or an editor)
- Access members only content
- View your benefits, CEUs/certificates, and more
- Upload media (company logo, staff pictures, directory photo gallery and video)
- Change your password

## LOG IN TO TAKE CONTROL OF YOUR MEMBERSHIP

- You will need to use your username and password to gain access to our private Members Only Area.
- Your username is the email address we have on file. If this is your first time logging in, you will need to click 'Forgot your password' to set up a new password.

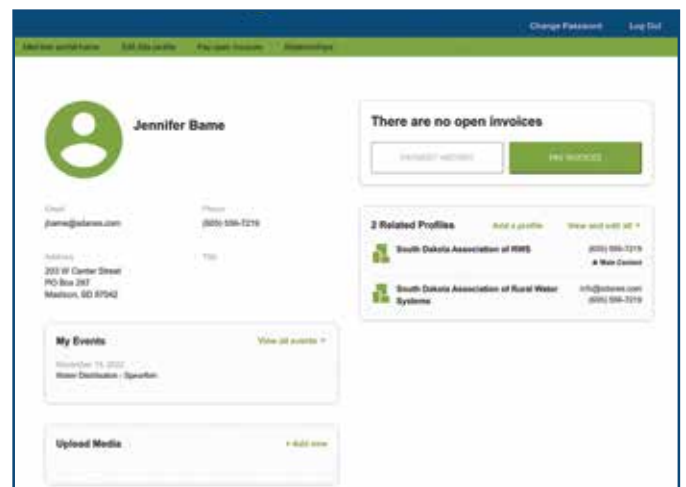
## EDIT THIS PROFILE

This link will open a page that allows you to update much of the information on your profile. If you are an Editor for your related organization(s), you can click 'Switch Profile' at any time to edit additional profiles. This helps us ensure we always have the latest information about you and your business.

**You can edit the following information:**

- Name, address, and other basic contact information
- Directory Listing category and descriptions
- Relationships you have to other profiles (including adding new profiles you are related to)
- Social media accounts
- Name, address, and other basic contact information
- If you have the right permissions, you can also edit the profiles related to your organization. You can add new staff, update current staff, or remove former staff

Once you make changes (and hit SAVE), they are submitted for approval by SDARWS.



## VIEW BENEFITS, CEUS/CERTIFICATES, AND MORE!

- From the home page of your profile and any related profiles (for main contacts and editors), you can view event history, certifications, CEUs, committee involvement, and member benefits. *(Please note that any CEUs or certificates earned, or any event history before November 2022 will not be available).*
- We are working on expanding the member offerings on our online portal - so stay tuned for more information!

# Seeing success from your **PERSPECTIVE**

“We know your goals are bigger than just the project at hand. We’re invested in your overall best interest.”

*Dustin Dale, PE, AE2S Engineer*



Water Engineering and Beyond

*Award-Winning Best Place to Work*



## ***When It Comes To Waterworks, There Can Be A Lot Of Pressure.***

To succeed, you need a partner that makes your job easier. With Dakota Supply Group, you get more than just pipe and products:

▶ Contact us today to learn more about how we can help you.



**DSG**  
**DAKOTA SUPPLY GROUP**  
*For all the right connections!*

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

FARGO, ND ▶ [800] 342-4676  
BISMARCK, ND ▶ [855] 337-9258  
SIOUX FALLS, SD ▶ [800] 660-5531  
RAPID CITY, SD ▶ [800] 660-5538  
BURNSVILLE, MN ▶ [800] 325-0514



RURAL WATER

# EXPO 2023

## CALL FOR PAPERS

South Dakota Rural Water, in cooperation with the many small and rural systems located in western South Dakota, would like to invite manufacturers, suppliers, and engineering firms to participate in our Rural Water EXPO April 26-27, 2023 at the Best Western Ramkota Hotel & Conference Center, Rapid City, SD.

Presentations for the 1½ day event will focus on water technology, distribution and regulatory advances in the water & wastewater field. 10-foot tabletop displays will be arranged around the perimeter of the room to provide easy access to exhibit displays.

In order to provide reduced registration for attendees, we have set the tabletop display cost at \$200/exhibitor (non-electric), \$225 (electric). We will also offer exhibitors 30 minutes on the program on a first come first serve basis. We have pre-arranged our program to provide 20 presentations at 30 minutes each. Lunch will be provided.

## TOPIC SUGGESTIONS

- Drinking water security strategies and tools
- How Water Storage Can Impact Water Quality
- Fair Labor Standards Act
- Hands-on sessions:
  - ◆ Control valve repair kits
  - ◆ Hydrant maintenance and repair
  - ◆ Solution pump repairs (diaphragm and peristaltic)
  - ◆ Repair couplers, saddles, wet tapping
- The importance of Cross Connection Control
- Water Rights for public systems
- Ice Pigging to clean water and sewer pipelines
- Source water protection and sustainability of water supplies
- Climate change, water and energy efficiency, and conservation
- Clean Water Act/SDWA connections, nutrient pollution, and Harmful Algal Blooms (HABs)
- Emerging drinking water treatment technologies
- and optimization of current technology
- State revolving loan fund tools and techniques/ green infrastructure strategies
- Small systems: TMF, sustainability strategies, technologies, and compliance
- Trench Safety
- PFAS
- Data management (e.g., SCADA, GIS, IT)
- Workforce, operator certification, and/or technical assistance initiatives
- Distribution system issues
- Emerging contaminants in drinking water, both chemical and microbial
- Drinking water research
- Sanitation and wastewater management
- Risk assessment, risk communication and consumer outreach
- Implementation of regulations – challenges and successes

***Register & submit abstracts online at [sdarws.com/expo](https://sdarws.com/expo)***



# EVENT RECAP

The 2023 South Dakota Rural Water Annual Technical Conference was held January 10-12 at the Ramkota Hotel & Convention Center in Pierre, SD. We decided to shake things up this year and moved the awards banquet to the beginning of the conference so that our awardees could be recognized throughout the event. The luncheon, sponsored by DGR Engineering featured a fajita bar and was followed up with our Keynote Speaker Holly Hoffman. We've had Holly scheduled to speak for two years now, but due to Covid complications, her presence was delayed until this year – and she was worth the wait! Holly captivated our group with her story on how she beat the odds to compete in the reality TV show Survivor - Nicauragua, and shared the lessons of being a winner within yourself.

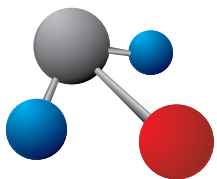
Another new addition was our Water Meter Challenge with prizes sponsored by Metering & Technology Solutions, Ferguson Waterworks, and Mueller. Contestants were able to practice for time on either a Badger, Neptune, or Mueller meter, and the fastest nine times were lined up to compete in the finals hosted in our Exhibit Hall. The top nine contestants were: Mike Wolff (Butte Mead), Jeremy Joseph (Mni Wiconi), Marc Leumo (City of Castlewood), Hannah Kast (DANR), Bates Hood Jr. (Lower Brule Rural Water), Sammi Blood

(DANR), and Austin Collins (City of Pierre), with first place going to Mark Koch (City of Pierre), second place to Dawsin Jones (Mni Wiconi), and third place to Tory McCarley (Lower Brule Rural Water). It was a fun event and we look forward to hosting it again next year.

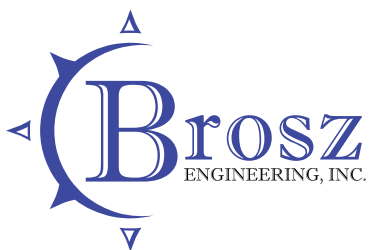
Attendees enjoyed the many opportunities to visit with colleagues, learn about the new advances in the water and wastewater field, and attended several of the many classes offered. Attendees were also able to tour the newly functional Pierre Water Treatment Plant with the AE<sub>2</sub>S crew. SDARWS was pleased to host National Rural Water Director Tom Goulette from Nebraska. The last day was capped with a legislative panel breakfast sponsored by Brosz Engineering, and a panel on Water 2040. Total attendance for this year's ATC totaled over 450 people and 85 exhibitors.

Additionally, our attendees made generous contributions to our WaterPac fundraiser. This year we held our traditional raffle, in addition to our first ever gun raffle. Combined, these raffles brought in record profits totaling \$7,192. We are thankful for all of the support, and many thanks go out to our members and sponsors for another successful ATC. We hope to see you all again January 9-11, 2024 at the Ramkota Hotel & Convention Center in Pierre. 💧

## Special Thanks to our Event Sponsors









# 2023 ATC Exhibitors & Sponsors

**AE<sub>2</sub>S** | PREMIERE SPONSOR, KEG SPONSOR

A.Y. McDonald Mfg. Co.

American Cast Iron Pipe Co.

**Banner Associates, Inc.** | LANYARD SPONSOR

Barco Municipal Products Inc

**Bartlett & West** | EDUCATIONAL SESSIONS SPONSOR

BioResource Services, Inc.

**Brosz Engineering Inc.** | LEGISLATIVE BREAKFAST SPONSOR

**Butler Machinery Company** | BREAK TABLE SPONSOR

C. Emery Nelson, Inc.

Clow Valve Co.

CoBank

**Colliers Securities LLC** | T-SHIRT SPONSOR

Convergint

Core & Main

CUSI

Dakota Pump & Control

Dakota Pump Inc.

Dakota Supply Group

**DGR Engineering** | AWARDS LUNCH SPONSOR

**Direct Automation** | KEG SPONSOR

**DN Tanks** | KEG SPONSOR

Ductile Iron Pipe Research Association

Dutton-Lainson Company

East Dakota Water Development District

**Electric Pump** | T-SHIRT SPONSOR

**Ferguson Waterworks** | METER CHALLENGE SPONSOR

Fischer Harris & Associates

Flow Control Automation Inc

Ford Meter Box Company

Foth

Granse/Trio Sales LLC

Great Northern Environmental

Great Plains Structures

**Hawkins Water Treatment Group** | KOOZIE SPONSOR

Hobas Pipe USA, Inc.

HR Green, Inc.

Hydro Klean LLC

In Control, Inc.

**ISG Inc.** | T-SHIRT SPONSOR

IXOM Watercare (formerly Medora Corp)

Jet Line Sales & Service, LLC

KLJ

KLM Engineering, Inc.

Larson Data Communications, Inc.

LiquidTEK LLC

Maguire Iron

Malloy Electric

Marsh McLennan Agency

**Metering & Technology Solutions** | METER CHALLENGE SPONSOR

Metron Farnier

Micro-Comm, Inc.

Mid Continent Testing Labs, Inc

Midco Diving and Marine Services

**Milbank Winwater Works** | METER CHALLENGE SPONSOR

**Mueller Water Products** | METER CHALLENGE SPONSOR

Napoli Shkolnik Law

Nicor, Inc.

Northern Pipe Products

**Northwest Pipe Fittings** | KEG SPONSOR

Northwestern Power Equipment

Preload, LLC

Prinsco

Qualified Presort Service LLC/ Mail  
Communications Group

Respec, Inc.

**Risty Benefits, Inc.** | WINE SPONSOR

Sargent Drilling

Schmucker Paul & Nohr & Associates Inc. / Helms  
& Associates

Short Elliott Hendrickson Inc.

**Sioux Valley Environmental** | T-SHIRT SPONSOR

South Dakota One Call South Dakota 811

Stenner Pump Company

Sweeney Controls Company

Tech Sales Company

Thein Well Company

Titus Wastewater Solutions Inc.

Treatment Resources, Inc.

USDA Rural Development

UtilityLogic

Veolia Advanced Solutions

Vermeer High Plains

Vessco, Inc.

Visu Sewer, Inc.

WEERC - SDSU

Western Dakota Regional Water System

ISG



DRIVEN BY  
**PASSION+**  
**PURPOSE**

101 South Reid Street + Suite 202, Sioux Falls, SD 57103  
605.274.6401

Architecture + Engineering + Environmental + Planning | ISGInc.com



Join Our Team!  
[bit.ly/W\\_WW\\_Jobs](https://bit.ly/W_WW_Jobs)



### Expertise Snapshot

- Capital Improvement Plans
- Feasibility Studies
- Grants + Funding Support
- Hydraulic System Modeling + Analysis
- Industrial Wastewater
- Inflow + Infiltration Studies
- Master Planning + Facility Plans
- Permitting
- Sanitary Sewer + Wastewater Collection
- Site Selection + Surveying
- User Rate Studies
- Water + Wastewater Operations
- Wastewater Treatment
- Water Treatment
- Water Reuse

Are You Giving  
Wipes A Free  
Pass?



Water Treatment's Total Solution  
952-941-2678  
vessco.com



## Stop Wipes

before they get into your plant  
with a FSM Perforated Plate  
Belt Filterscreen.



- FSM® has been protecting plants for over 30 years.
- Self-adjusting auto brush.
- 85% capture 24/7.

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



# 2023 AWARD WINNERS

## RURAL WATER SYSTEM OF THE YEAR

– Clay Rural Water System

## WATER/WASTEWATER SYSTEM OF THE YEAR

– City of Keystone

## MUNICIPAL OFFICE PERSON OF THE YEAR

– Shannon Decker, City of Sioux Falls

## RURAL WATER OFFICE PERSON OF THE YEAR

– Mary Brainard, Aurora-Brule Rural Water System

## RURAL WATER OPERATIONS SPECIALIST OF THE YEAR

– John Kramer, West River/Lyman-Jones RWS

## MUNICIPAL OPERATIONS SPECIALIST OF THE YEAR

– Troy Loudenburg, City of Howard

## RURAL WATER OPERATIONS SUPERVISOR OF THE YEAR

– Jim Auen, Lewis & Clark Regional Water System

## MUNICIPAL MANAGER OF THE YEAR

– Terry Manning, City of Miller

## RURAL WATER MANAGER OF THE YEAR

– Rod Kappes, BDM Rural Water System

## ASSOCIATE MEMBER OF THE YEAR

– A.Y. McDonald

## DONALD B. POSPISHIL MEMORIAL AWARD

– the late Vernon Thorson, City of Ft. Pierre

## FRIEND OF RURAL WATER

– Mike Perkovich, DANR

## CARROLL ANDERSON AWARD

– Jim McGillvrey, Mid-Dakota Rural Water System

## SPIRIT OF RURAL WATER

- Andy Groos, Big Sioux Community Water
- JR Holloway, Tri -County/Mni Wasté
- Diane Spieker, Clark Rural Water System
- Jolene King, Kingbrook Rural Water System
- Dave Meyerink, Randall Community Water

## BEST TASTING WATER IN SOUTH DAKOTA

– City of Tea



Steve Muilenburg



Jerry Przybylski



Shannon Decker



Mary Brainard



Troy Loudenburg



Jim Auen



Terry Manning



Rod Kappes

**FORD METER BOX**

**FORD**  
Celebrating 125 Years

Rated to 305 psi

**SIMPLY SEALS!**



**No field trimming required!**

- Tapping Sleeves
- Couplings
- Bell Joint Encapsulators

*Fully encapsulated for the most challenging applications.*

260-563-3171 • [fordmeterbox.com](http://fordmeterbox.com)



**No Inventory?  
No Problem!**

Need help building and validating your service line inventory?

[www.120water.com/LSLI](http://www.120water.com/LSLI)



Partnering with your association to help build your path to LCR compliance.

**STRUCTURE.  
& INTEGRITY.**

**PITTSBURG TANK & TOWER GROUP**

An ESOP Company Since 1919  
"100 years and still climbing"



**CREWS AVAILABLE GLOBALLY**



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

	INSPECTIONS	REPAIR	TANKS
	Wet	Code Updates	Elevated Ground
	Dry	Paint	Relocation
	ROV	Insulation	Erection
	In-Service Cleaning		Dismantles
<b>NEW TANKS</b> - Rick DiZinno (270) 826-9000 ext. 2601		<b>EXISTING TANKS</b> - Jordan Pyles (270) 826-9000 ext. 4601	

**JETLINE SALES & SERVICE**

Official Dealer & Distributor For

**rausch** USA



Chase Johnson 320.290.5764 | [chase@jetlinesales.com](mailto:chase@jetlinesales.com) | [www.jetlinesales.com](http://www.jetlinesales.com)



John Kramer



A.Y. McDonald



Mike Perkovich



Jim McGillvrey



Vernon Thorson (posthumously)



Dan Zulowski and Sid Munson, Tea



Jolene King



Dave Meyerink



Andy Groos



Diane Spieker

## ***In Memorium***

*Robert Boehnke – Director, Clark RWS*

*Jenna Lundquist – Customer Service Assistant, Kingbrook RWS*

*Orlynn Piehl – Director, Kingbrook RWS*

*Lowell (Tuffy) Gisselbeck – Director, Kingbrook RWS*

*Dennis Larson – Manager, Lincoln County RWS*

*Charles Sour – Director, Sioux RWS*

*John Madden – Project Engineer, WR/LJ RWS*

# ENTERPRISE SOLUTIONS FOR TOMORROW'S UTILITIES

- Customer Information and Billing System
- Financial Management
- Customer Empowerment/Mobility
- GIS Mapping System
- Meter Data Management



Central Service Association

Professional Computer Solutions



**Make us prove it.**

pcs-csa.com  
888.843.3106

Only the National Rural Water Association can bring together this unique Products and Services Portfolio.



That's the *Power* of Association.

[nrwa.org/members/products-services-portfolio/](http://nrwa.org/members/products-services-portfolio/)



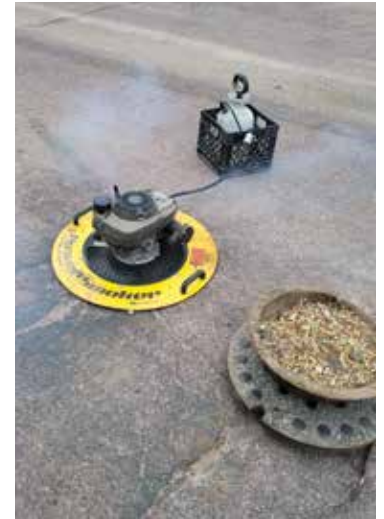
# SMOKE TESTING

## HOW IT CAN HELP YOUR COMMUNITY

Smoke testing is a beneficial tool for municipalities; it can identify minor problems that, over time, can and will turn into more significant and expensive problems.

So, what is the process one should take before smoke testing? The first step is to review what streets will be paved the following year or near future. Smoke testing will help identify sewer mains that may be causing issues such as plugging up, very low flow, and the smell of sewer gases. This way, you can save money getting your sewer mains fixed before paving over them and spend more money re-digging up, having manholes and streets mapped out, address of businesses and residences on that street to make any notes of problems. Smoke from the ground is a sure sign of I&I, a cracked sewer service, or a joint not adequately connected or sealed.

One thing that often pops up during smoke testing are houses that fill up with smoke that rolls out of the eaves; what is



causing this? Usually, it comes down to having no water in drains or pee-traps or the toilet seal's wax ring is bad. The attic filling with smoke could be a disconnected or loose exhaust vent pipe; this could also be in your basement.

Before smoke testing, it is essential to inform your community what you will be doing and when at least a week or two prior by mailing out letters, putting a notice in the local newspaper, and even posting about it on the city's social media pages. Make sure to explain what homeowners can expect from smoke testing and health hazards to humans with medical conditions on a respirator, asthma, or COPD. Pets, dogs, cats, birds. Make sure to answer the obvious questions: is the smoke harmful? How long will it hang around? Should people open windows and doors? Inform them how this smoke testing will help save the community money.

To get started, plan when to do the testing, update any maps and records, inform the community, perform the test, and repair any infrastructure as needed.

If your wastewater system could benefit from smoke testing, please call the SDARWS office at 605-556-7219, and we will put you in touch with one of our wastewater technicians. 💧



**GLEN OLENE** joined South Dakota Association of Rural Water Systems in May of 2022. Prior to that he worked as the Public Works Director for the City of Eureka, and spent 20 years in the ARMY. Glen holds a Class I in Wastewater Collection, Class I in Stabilization Ponds, and Class I in Water Distribution. In his spare time he enjoys riding his Harley with his wife, camping, hunting, and fishing.

# SPN & ASSOCIATES

**ENGINEERS SURVEYORS GIS SERVICES**

Schmucker, Paul, Nohr and Associates

2100 N. Sanborn Blvd – PO Box 398  
 Mitchell, SD 57301  
 Phone (605) 996-7761  
 FAX (605) 996-0015  
 www.spn-assoc.com

Water • Wastewater • Storm Water • Streets  
 Airports • Solid Waste • Animal Waste  
 Land Surveying • Site Development  
 Geographic Information Systems (GIS)



**ENGINEERING EXCELLENCE  
 SINCE 1961**



**ELECTRIC PUMP**



An Electric Pump Company



**800-211-6432**  
[www.electricpump.com](http://www.electricpump.com)

115 Lipton Street  
 Suite B  
 Tea, SD 57064

**402-333-9660**  
[www.mc2h2o.com](http://www.mc2h2o.com)

# IT'S TIME TO TALK PFAS

Almost everywhere you go, especially in the water industry, people cringe and cuss when you mention the word PFAS. At the same time, talking with people at ball games, the grocery store, and various other businesses in their communities. I've found that people outside the water industry know just bits and pieces about PFAS. Hopefully, I can help with some of the "bits and pieces."

## WHAT IS PFAS?

Per and Polyfluoroalkyl Substances, also known as PFAS, are a large, complex group of manufactured chemicals that are ingredients in various everyday products. For example, they keep food from sticking to packaging or cookware, make clothes and carpets resistant to stains, and create more effective firefighting foam. PFAS are also used in the aerospace, automotive, construction, and electronics industries.

PFAS molecules have a chain of linked carbon and fluorine atoms. Because the carbon-fluorine bond is one of the strongest, these chemicals do not degrade quickly or easily in the environment, so they are often labeled the "Forever Chemical."

## WHY BE CONCERNED ABOUT PFAS?

Multiple health effects associated with PFAS exposure have been identified and are supported by different scientific studies. Concerns about the public health impact of PFAS have arisen for the following reasons:

- **Widespread occurrence.** Studies find PFAS in the blood and urine of people, and scientists want to know if they cause health problems.
- **Numerous exposures.** PFAS are used in hundreds of products globally, with many opportunities for human exposure.
- **Persistent.** PFAS remain in the environment for an unknown amount of time.
- **Bioaccumulation.** People may encounter different PFAS chemicals in various ways. Over time, people may take in more chemicals than they excrete, which leads to body bioaccumulation.

Because there are many PFAS chemicals, which often occur in complex mixtures and various everyday products, researchers face challenges in studying them. More research is needed to understand all exposure sources fully and if and how they may cause health problems.

The research reveals possible links between human exposure to PFAS and adverse health outcomes. These health effects include altered metabolism, fertility, reduced fetal growth and increased risk of being overweight or obese, increased risk of some cancers, and reduced ability of the immune system to fight infections.



The Safe Drinking Water Act (SDWA) requires that once every five years EPA issue a list of unregulated contaminants to be monitored by public water systems. Unregulated Contaminant Monitoring Rule (UCMR5) requires sample collection for 30 chemical contaminants between 2023 and 2025 using analytical methods developed by EPA and consensus organizations.

This action provides EPA and other interested parties with scientifically valid data on the national occurrence of these contaminants in drinking water. UCMR5 will provide new data that is critically needed to improve the

EPA's understanding of the frequency that 29 PFAS (and lithium) are found in the nation's drinking water systems and at what levels. This data will ensure science-based decision-making and help prioritize the protection of disadvantaged communities.

Nationwide, all PWSs serving more than 10,000 people (i.e., large systems) will monitor; all PWSs serving 3,300 to 10,000 people and 800 representative PWSs serving fewer than 3,300 will monitor for PFAS, subject to availability of appropriations and sufficient laboratory capacity.

South Dakota Rural Water has partnered with the South Dakota DANR. By doing so, SDARWS has taken a lead role and will be collecting the samples required by the UCMR5 in South Dakota, with the thought of keeping sampling protocols and procedures consistent and easing the sampling burden on communities and systems.



**KEVIN CHRISTENSON** started with SDARWS in November of 2021 as the Source Water Protection Specialist. He was previously employed at East Dakota Water Development District in Brookings, SD as a Field Project Specialist for 10 years collecting water quality samples and discharge measurements from surrounding streams, rivers, and lakes. Kevin's hobbies include hunting small and big game across South Dakota, coaching baseball, and following his three kids around to their many sporting events and other activities.

# WATER TOWER EXPERTS



(605) 334-9749 | MAGUIREIRON.COM |    

EXTEND THE LIFE OF YOUR WATER TANK

## TANK MAINTENANCE & NEW TANKS

- Full-Service and Custom Tank Maintenance Plans
- Interior/Exterior Tank Painting
- Interior/Exterior Sandblasting and Containment
- Interior/Exterior Tank Inspections
- Lead Abatement
- Interior Tank Cleaning and Disinfection
- Custom Tank Logos
- Chemical Cleaning
- Tank Mixing Systems
- 24-Hour Emergency Services



**CHAD EDWARDS**

South Dakota Water Tower Expert  
(605) 759-4957 | edwardsc@maguireiron.com



“We love our new website! This is the best decision we ever made!”



**RuralWaterImpact.com**

Smart Websites for Smart Water Systems™

**MunicipalImpact.com**

Smart Websites for Smart Communities™

Trusted website provider for more than 1,400 small towns and water systems across America!



Text Alerting System • Easy Updates • Secure Hosting • Free Trial • Unlimited Support • Money-Back Guarantee

**FAST LAUNCH: Get a Website in Just 3 Days! Call Today (888) 551-4815**



# FOUR LETTER WORD

**W**arning! I'm going to say a four-letter word that many don't like to hear. Plan! Planning is something that some systems do well, and others avoid it like a cuss word at church. But the reality is that planning can be fundamental to success in minimizing costs in almost every area of your operation. Infrastructure planning, while extremely important, is what most systems spend most of their time and resources on when planning Infrastructure is the largest capital asset of most systems, and it requires a lot of planning and engineering to make everything work. Still, there are many more areas of your system that you should consider planning for.

Equipment and other short-term assets should all have a plan for acquisition or replacement. Having realistic expectations for when a piece of equipment should be replaced can save money on repairs. Otherwise, you may find yourself dealing with a replacement on short notice or when market conditions are unfavorable.

Personnel planning also has value to even a small system with only a few employees; when looking at future retirements or possibly advancements, you should ask yourself who will be able or prepared to fill these positions. Low unemployment and high competition for skilled workers make retaining a thriving workforce difficult. Having a training plan for employees can save the knowledge and experience that might be lost when an employee retires or moves on. South Dakota Rural Water has developed a Succession Planning & Recruitment Handbook that is available by request, or can be downloaded from our website at [sdarws.com/researchconsortium](http://sdarws.com/researchconsortium).

Emergency response plans are critical to systems to protect them from unforeseen events. If your system borrows money from USDA Rural Development, you are required to keep an updated plan on file. These need to be updated every three

years, and a completion letter must also be sent to your local RD office. These Vulnerability Assessment and Emergency Response Plans (VA/ERP) identify vulnerabilities that need to be focused on and contain detailed procedures and contact information in case of emergencies. These plans are a worthwhile endeavor for any system. Emergency response plans are like an insurance policy that hopefully you'll never use, but if you do, the information it contains could be vital in saving time and resources. If you or your system would like help with a new VA/ERP, or need one updated, don't hesitate to contact the SDARWS office; we have staff that routinely prepare or update these for systems at no cost to the system.

I know planning is tough to do (anyone who is married knows just trying to plan what's for supper is hard enough), but being flexible and realistic that plans change is critical to success. When an effort is made to keep plans updated and align your systems' projects with your long-term goals, you will reap the benefits of your hard work. 💧



**PAUL DORWART** joined the team at SDARWS as a Circuit Rider for the state's east side in March 2022 and transitioned to a Technical Assistance/Training Specialist in February 2023. He has a degree in Ag Management from Mitchell Technical College and a bachelor's degree in business administration from Dakota Wesleyan University. Paul worked as a general contractor for nine years before becoming the maintenance superintendent at the City of Kimball. He holds a Class I Water Distribution, Class I Wastewater Collection, and Stabilization pond certificate.

Paul currently resides in Kimball with his wife and two daughters. He enjoys hunting, traveling, gardening, landscaping, and building/remodeling projects in his spare time.



# Water Treatment Chemicals, Equipment and Local Service

Scan this QR code  
to see the Hawkins  
testimonial video.



800.328.5460  
wtg@hawkinsinc.com

Black Hawk, SD 605.787.6881    Sioux Falls, SD 605.368.5793    Fargo, ND 701.293.9618    Washburn, ND 701.462.8588

*Customized solutions by a  
professionally trained team.*

### SERVICE

- Mini Bulk Delivery
- Equipment Installations
- Laboratory Testing

### WATER TREATMENT

- Potable Water
- Wastewater Treatment
- Collection Systems

### EQUIPMENT

- Chemical Injection Pumps
- Chlorination Control
- Chemical Feed Equipment

## Now Hiring for Sales & Service!

Visit [www.hawkinsinc.com/careers](http://www.hawkinsinc.com/careers) for current openings and locations



Since 1913, HR Green has provided solutions that build communities and improve lives.



▶ SIOUX FALLS

▶ [HRGREEN.COM](http://HRGREEN.COM)

# BABY IT'S COLD OUTSIDE

Since we are in the thick of winter, we should be giving our lagoons a little extra TLC. We all know that a lagoon does not operate the same in the winter as it does in the summer. Let's take a look at the impact of cold weather on a lagoon.

1. Cold weather may damage structures and equipment, cause icing of liners, baffles, air and power lines. Aerators, especially surface aerators can freeze and malfunction.
2. The cold will cause destratification, as the water cools it becomes denser making it heavier. This causes the colder surface water to sink and the warmer water at the bottom rises to the top and cools. This process is known as densitometric mixing and causes the lagoon to de-stratify by distributing the cold water over the whole lagoon.
3. Cold temperatures encourage short circuiting. The influent, which is warmer, if not properly mixed may short circuit across the cell when transferring water from cell to cell. This is caused by the warmer water creating thermoclines in the pond.
4. Cold weather tends to cause the build-up of BOD in ponds. Every ten degree drop in temperature reduces microbial activity by about fifty percent. The colder a pond gets the less BOD will be consumed by the microbes.
5. Ice covering a lagoon cell will cause a reduction of DO in the water due to a lack of absorption from the air.
6. Without sufficient DO in the pond anaerobic conditions will prevail and solids will settle to the bottom. With the colder temperatures the bacteria slow down therefore, you will have slower sludge digestion.
7. Nitrification suffers in cold weather. Nitrifying bacteria like warm water (82 deg. To 97 deg. F). Ammonia removal stops at 32 deg. F, so you will get very little ammonia removal in the wintertime.
8. Phosphorus removal is also temperature sensitive. In the summer nearly fifty percent of the phosphorus is removed from the water column but in cold weather only about thirty-five percent is removed. If you have a continuous discharge you may need to add a filter system to meet Phosphorus removal limits.
9. In the winter there is a build-up of anaerobic gasses in the sludge and under the ice. In the spring when the ice goes out and the water starts to warm up the biological activity picks up and these microbes start to eat the accumulation of sludge releasing the gasses trapped there, but we can talk more about that in the spring.

So enough with the doom and gloom. Let's see what can we do to make our lives better in the winter?

1. Let's make sure to properly protect or store any equipment that will not be used in the winter. We should perform any regular maintenance that is required in the fall of the year



for equipment that will be used in the winter.

2. If you have mixers in the lagoon this will help stop short circuiting by mixing the water column. This mixing will spread the warmer influent throughout the colder water.
3. Aeration by mechanical means increase the DO in the lagoon. If you do not have mechanical aerators, you can add chemical oxidizers to the influent if necessary. Adding DO to the pond will help with microbial activity and sludge reduction.
4. Good housekeeping is essential. Make sure that the grass and weeds are mowed around the pond so that the wind can keep the snow blown off the ice in the pond. A lack of snow on the pond will allow more sunlight to get through the ice helping with the growth of algae. Yes algae does grow under the ice. You should check all transfer valves for operation ,freezing and icing. Remember to remove snow from the berm tops to allow travel for regular inspection of the lagoons. Always keep good records of what is going on at your lagoon as this is a reference for issues and solutions for those issues in the future. Good records also keep our friends at DANR happy at inspection time (don't forget to do your DMR's).

If you are having issues with your lagoons give Danny or Glen a call at 605-556-7219 and we will be glad to take a look at the problem.💧



**DANNY AYERS** joined South Dakota Association of Rural Water Systems in April of 2020. Prior to that he worked for the City of Winner as the water/wastewater Superintendent for 31 years. Danny has a Class I Wastewater Treatment, Class II Wastewater Collection, Class II Water Treatment, and Class II Water Distribution. He enjoys hunting, fishing, woodworking and camping.



# Your number one source

Top providers of creative water and wastewater solutions with over 75 years of combined experience.



[treatmentresources.com](http://treatmentresources.com) • 612 702-2692

## Special Loan Terms for SDARWS Members!

South Dakota Association of Rural Water Systems (SDARWS) has partnered with CoBank,

a national cooperative bank that serves rural America, to provide attractive financing solutions for SDARWS members. Find out about the specially negotiated terms on many loan products and bonds for water and wastewater utilities, including:



- ✓ USDA INTERIM CONSTRUCTION FINANCING
- ✓ USDA GUARANTEED LOANS AND BONDS
- ✓ LINES OF CREDIT
- ✓ DEBT REFINANCING
- ✓ TERM FINANCING



**CONTACT**  
Michael Griffiths  
Call: 720-520-6261  
Email: [griffiths@cobank.com](mailto:griffiths@cobank.com)



# SDARWS Conferences & Events



## Rural Water EXPO | April 26-27, 2023

The EXPO is open to all water and wastewater utility staff, board/council members, engineers, State and Federal employees. The training will consist of twenty presentations, 30 minutes each, thus allocating ten contact hours for those individuals who are licensed operations specialists. Along with the training sessions, the EXPO will showcase many of our industry's manufacturer and supplier leaders. Many will be displaying the recent advances in technology our industry has witnessed over the past several years.

To learn more, visit [sdarws.com/EXPO](https://sdarws.com/EXPO) or email [expo@sdarws.com](mailto:expo@sdarws.com)

**Rapid City Ramkota Hotel & Convention Center**  
2111 N Lacrosse Street • Rapid City, SD • 605-343-8550



## Rural Water Fishing Tourney | April 28-29, 2023

The Annual Rural Water Warriors Fishing Tournament takes place at the Outpost Lodge on Cow Creek Bay in 2023. Teams consist of 2-3 people with at least one person who is a current water/wastewater, associate member or corporate partner of the SDARWS. This tournament is limited to 50 teams. There is an eight fish maximum per boat with the largest seven fish weighed, and all South Dakota fishing regulations must be followed. A mandatory rules meeting is held at 8:00pm the night before the tournament.

For more information, visit [sdarws.com/fishing](https://sdarws.com/fishing) or email [fishing@sdarws.com](mailto:fishing@sdarws.com)

**Outpost Lodge on Cow Creek Bay**  
Cow Creek Recreational Area, 28229 Cow Creek Rd. • Pierre, SD • 605-264-5450



## Rural Water Open Golf Tourney | July 18, 2023

The Annual Rural Water Open will take place at the Elmwood Golf Course in Sioux Falls. This tournament is open to Utility Members, Associate Members, and Corporate Partners of SDARWS. Registration is \$100/player and includes golf, cart, lunch, and awards.

For more information, visit [sdarws.com/golf](https://sdarws.com/golf) or email [golf@sdarws.com](mailto:golf@sdarws.com)

**Elmwood Golf Course**  
2604 W. Russell St • Sioux Falls, SD • 605-367-7092



## Leadership Seminar | November 8-9, 2023

This seminar is geared towards Rural Water System Directors and covers a gamut of topics pertaining to rural water boards.

For more information, visit [sdarws.com/leadership](https://sdarws.com/leadership) or email [jcorbin@sdarws.com](mailto:jcorbin@sdarws.com)

**Pierre Ramkota Hotel & Convention Center**  
920 W. Sioux Ave. • Pierre, SD • 605-224-6877



## Annual Technical Conference | January 9-11, 2024

The ATC is the annual conference of the South Dakota Association of Rural Water Systems, and is the largest water/wastewater conference in South Dakota. This event is designed to bring together water and wastewater utility systems – both large and small, municipal and rural – for sessions in operations, management, boardsmanship and governance. This conference is held every year during the first week of the South Dakota Legislative session in Pierre, SD and hosts over 500 attendees.

To learn more, visit [sdarws.com/ATC](https://sdarws.com/ATC) or email [atc@sdarws.com](mailto:atc@sdarws.com)

**Pierre Ramkota Hotel & Convention Center**  
920 W Sioux Ave. • Pierre, SD • 605-224-6877

# NEIGHBORS HELPING NEIGHBORS

Being in charge of a small water or wastewater system in South Dakota can be daunting when there are so many other things to do. Running a city takes a lot of ingenuity, know-how, and responsibility. The ability to solve a problem when things go wrong can sometimes be overwhelming, especially for a new operator. That is why it is important to get to know your neighbors who may have experienced the same problems that you are having. A simple phone call might save a lot of headaches, resources, and lost time. With all of the different configurations of water mains and service lines in the ground and not knowing what is down there, a city may have thousands of dollars of parts on the shelf and still not have the proper parts to fix the problem or have to drive hundreds of miles to retrieve the correct parts to finish the job when the right part may be just up the road a mile or two.

Some towns I have visited share everything from trucks, tapping equipment, trench boxes, and even personnel, which is a cost-effective way to run a system.

Many towns only have a single operator town, and it becomes difficult to keep the system operational when that lone operator becomes sick or wants to go on vacation. Consider doing something minor such as inviting the operator of a neighboring town over for a tour of your water or wastewater system. Having a neighbor who is even just a little bit familiar with your system could be a lifesaver when extenuating circumstances keep you from work.

Get to know your neighboring town over a cup of coffee; it may be one of the best things you can do for your water system and community. By making connections and having your neighbor's phone number handy, it may just help keep your system afloat in a time of need. ☕



**ALLEN KOCMICH** joined the SDARWS staff in November 2021 as a Circuit Rider. He previously worked for 30 years at the City of Avon, SD as the Water/Wastewater Superintendent. Al holds a Class I Water Distribution and Class I Wastewater Collection. Al has volunteered with the Avon Fire Department for over 30 years, with 15 years as Assistant Chief, and has been on the Avon Ambulance crew for 22 years. He enjoys fishing, hunting, boating, camping, and the Green Bay Packers (when they win).

## RESHAPING THE FUTURE OF UTILITY TECHNOLOGY



Analytics



Security



Mobility



Office



Field

### *An Integrated Technology Cooperative.*

CSA/PCS is an industry leader in utility software solutions. As a member-owned cooperative, we strive to provide best-in-class integrated solutions for: billing, financials, engineering, operations, analytics, and customer empowerment - in a secure, hosted environment.

***We provide a true enterprise experience.***

888-843-3106 • pcs-csa.com



Central  
Service  
Association

Professional  
Computer  
Solutions





# CERTIFICATION PRACTICE QUESTIONS

- 1. One opening has become available that would be an advancement to any one of three qualified eager employees. How should this situation be handled?**
  - a. Hire an outsider to fill the position.
  - b. Pick one and notify all personnel of the change.
  - c. Split the work between the three and leave the position open.
  - d. Talk to the three as a group, explain the situation, and make your selection, then notify all personnel of the change.
- 2. The rate of galvanic corrosion depends largely on**
  - a. whether flow rates are constant or variable.
  - b. the similarity of metals used in household plumbing systems.
  - c. how widely two metals are separated in the galvanic series.
  - d. how the corrosion index is interpreted.
- 3. A 40-hp motor runs an average of 16 hr per day. What will the monthly power cost be if the motor is 80 percent efficient and electricity costs \$0.02/kW-h? Assume 1 month equals 30 days.**
  - a. \$358.00
  - b. \$573.00
  - c. \$859.00
  - d. \$965.00
- 4. Which one of the following characteristics of water is a chemical characteristic?**
  - a. alkalinity
  - b. bacteria
  - c. suspended colloidal matter.
  - d. turbidity.
- 5. The atomic absorption technique is used to measure**
  - a. alkalinity.
  - b. concentration of metals.
  - c. dissolved oxygen.
  - d. radioactivity.
- 6. The number of bacteriological water samples to be taken per month for any given water system is based on**
  - a. average monthly demand as calculated from the minimum and peak months
  - b. population served.
  - c. the complexity of the distribution system's configuration.
  - d. the number of service connections.
- 7. Head loss, filter-effluent turbidity and length of filter run are each considered independently in determining**
  - a. when a filter needs backwashing.
  - b. the frequency of media replacement.
  - c. the benefits from using filter aids.
  - d. filter flow rates.
- 8. If the recommended holding period, type of container and preservation methods are the same for several chemical constituents**
  - a. a separate sample must be collected for each constituent.
  - b. a single sample of sufficient volume may be used for analysis.
  - c. composite sampling is recommended.
  - d. the sample volume for each is the same.
- 9. Modern detergents contain additives call sequestering agents that**
  - a. actually soften hard water.
  - b. form precipitates.
  - c. prevent hard water from causing problems.
  - d. "tie up" dirt particles even in the presence of hard water ions.
- 10. The value of the filterability test is that the test**
  - a. measures actual coagulated water in process and is not a laboratory simulation.
  - b. does not require further turbidity analysis.
  - c. can be used to monitor filter efficiency.
  - d. can be easily substituted for the jar test.



**Bridging the gap**  
between idea +  
achievement

Sioux Falls 605.977.7740  
Rapid City 605.791.6100



[hdrinc.com](http://hdrinc.com)

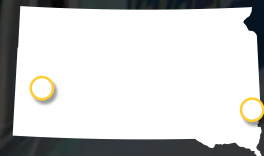
The Leading Distributor of Water, Sewer & Storm Drain Products & Services



**WE'RE ALL ABOUT**

*South Dakota*

When you need dependable service in the middle of the night, the eye of the storm or the center of town, you need the waterworks experts at Core & Main.



**Sioux Falls**  
2101 E 54th St N  
(605) 339-2814

**Rapid City**  
2808 E Highway 44  
(605) 716-9427

- FUSIBLE PIPING
- METERING AMR/AMI
- TREATMENT PLANTS
- STORM DRAIN
- PUMPING

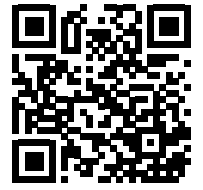
Local Knowledge | Local Experience | Local Service, Nationwide®

[coreandmain.com](http://coreandmain.com)

PASD20190529



**APRIL 28-29, 2023**  
**FORT PIERRE, SD**



SCAN HERE  
TO REGISTER

### **MANDATORY RULES MEETING**

7:00 PM CT on Friday, April 28th  
in the Outpost Lodge Hoop Tent

### **TOURNAMENT DETAILS**

\$150 Team Registration

Saturday, April 29, 2023

Cow Creek Boat Ramp

7:00 AM - 3:00 PM

Meal Provided following the tournament

### **PRIZES**

\$1,000 prize for first place

Other payouts depend on participation

### **ROOM BLOCK**

**Outpost Lodge on Cow Creek Bay**  
28229 Cow Creek Rd, Pierre, SD 57501  
605-264-5450 • theoutpostlodge.com

*NOTE: ALL RESERVATIONS AT THE OUTPOST LODGE MUST BE MADE BY MARCH 1. NO CABINS WILL BE HELD AFTER THAT DATE*

### **TOURNAMENT RULES**

- Teams to consist of 2-3 people with at least one person who is a current water/wastewater, associate or corporate member of South Dakota Rural Water.
- This is a boat-only tournament.
- Tournament begins at the Cow Creek Boat Ramp on Saturday, May 1, 2021 from 7:00 AM - 3:00 PM.
- Participants may fish above or below the dam (Lake Sharpe or Lake Oahe)
- Boat inspection prior to start.
- South Dakota fishing regulations must be followed.
- Weigh-ins start @ 3:30 PM.
- Walleye tournament; largest seven walleye weighed per team.
- All judges rules are final.
- In case of a tie, the team with the biggest fish by weight wins.
- Tournament winners announced shortly after weigh-in results are compiled.
- Meal to follow at the event center @ 5:00 PM.

For more information, contact Mike Moeller, SDARWS Tournament Chair  
605-270-4989 • mmoeller@sdarws.com

**REGISTER ONLINE AT [SDARWS.COM/FISHING](https://sdarws.com/fishing)**

**REGISTRATION DEADLINE: APRIL 26, 2023**



# FROM THE EXECUTIVE DIRECTOR

KURT PFEIFLE, EXECUTIVE DIRECTOR

National Rural Water Association CEO Matthew Holmes attended an exclusive White House event on Jan. 27, hosted by U.S. Vice President Kamala Harris and the Biden Administration recognizing the acceleration of lead pipe replacement.

NRWA was recognized as one of more than 120 partners representing the Biden-Harris “Get the Lead Out” Partnership, which was created to reduce the amount of lead service lines and protect American communities. The partnering organizations include federal and state government entities, Tribes, local communities, water utilities, labor unions, private companies, and nongovernmental organizations. These partners are committed to identifying new opportunities and resources which will advance lead service line replacement.

“Rural Water is proud to be a part of this coalition to get the lead out of our drinking water systems,” Holmes said. “Rural communities are often overlooked. NRWA is committed to ensuring small, rural, tribal, and disadvantaged communities receive the assistance they need to replace 100% of their lead service lines.”

During the event, the Biden-Harris Administration also announced their “Lead Service Line Replacement Accelerators” initiative, a partnership alongside the Department of Labor and four states: Connecticut, Pennsylvania, New Jersey, and Wisconsin. The goal of the initiative is to help communities completely replace lead service lines in over 40 communities in 2023.

In an announcement from EPA, Administrator Michael S. Regan stated, “EPA is committed to partnering with states and communities to protect children and families and ensure our nation’s drinking water pipes are lead-free. Our Lead Service Line Replacement Accelerators demonstrate our commitment to ensuring every community has access to safe, clean drinking water.”

Many key officials were in attendance to celebrate the



announcements of the initiative and partnership, including U.S. Vice President Kamala Harris, EPA Administrator Michael Regan, USDA Rural Development Under Secretary Xochitl Torres Small, and Housing and Urban Development Secretary Marcia Fudge.

NRWA, its 50 State Rural Water affiliates, and partners are working hand in hand with small and rural communities across the U.S. to evaluate and find solutions for lead service line replacement. Rural water systems are vital resources to their communities, from boosting the local economy to protecting public health. Just as these systems are committed to their communities, NRWA is committed to providing training and technical assistance to them.

The National Rural Water Association is the largest public drinking water and sanitation utility organization representing the interests of more than 31,000 water and wastewater utilities nationwide. NRWA provides training and technical assistance through 50 affiliated State Rural Water Associations dedicated to supporting and promoting the water and wastewater professionals that serve small communities across the United States. NRWA and the State Affiliates provide training on operator certification, financial sustainability, environmental compliance, utility management and governance to over 80,000 water professionals annually in all 50 states. To learn more, visit [www.nrwa.org](http://www.nrwa.org).

## Build Your Future • Apply Today

Scan the QR code to view more information and start your application.



Applications are open year-round via:

- Electronically using RD Apply
- Through your local RD Office



# USDA WATER & WASTE WATER DISPOSAL LOAN & GRANT PROGRAM

## About the Program

This program provides funding for clean and reliable drinking water systems, sanitary sewage disposal, sanitary solid waste disposal, and storm water drainage to households and businesses in eligible rural areas.

Build Your Future • Apply Today

# Supporting Membership

## NRWA

## We are raising the bar by reinventing our individual membership.



For \$49, you can join the growing community of NRWA Supporting Members dedicated to the success and sustainability of the Rural Water industry.



Every dollar of your membership dues goes to NRWA's lobbying efforts, ensuring that small and rural water utilities and State Rural Water Associations have a voice in Washington, D.C.

### Supporting Membership Includes:

- Members-only newsletter, *NRWA Unfiltered*
- Discounts on WaterPro Conference registration and NRWA store items
- Notifications and access to industry-specific training sessions
- Valuable insight directly from key policy leaders
- Inside look at our grassroots agenda to advance water and wastewater utilities
- Subscription to Rural Water Magazine
- and more!



**Be a part of something bigger.  
Become a member today.**

Visit [nrwa.org/members](http://nrwa.org/members) for more information and to join today!



203 W. Center Street  
P.O. Box 287  
Madison, SD 57042  
www.sdarws.com

# RURAL WATER EXPO 2023

## APRIL 26-27, 2023

BEST WESTERN RAMKOTA HOTEL & CONFERENCE CENTER • RAPID CITY, SD



***This 1½ day event includes presentations and features exhibit displays***

***10 Contact Hours • Door Prizes  
Lunch provided on Day One***

SCAN HERE FOR  
MORE INFORMATION



REGISTER ONLINE: [sdarws.com/EXPO](http://sdarws.com/EXPO)